A Complete Bibliography of Publications in *Numerische Mathematik* (1959–1999)

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Title word cross-reference

$(-t^2)dt$ [Luk61]. (0, 1) [Els84a]. $(0, 1)$ [Sch87a]. $(1 + z/n)^n$ [vI84]. $(A - \lambda B)x = 0$ [Sch74b]. (k, l) [Gut89b]. $(\lambda^2 - \lambda A - B)x = 0$ [Lin76]. $(\lambda^2 I - \lambda A - B)x = 0$ [Ric74b]. $(\lambda^2 \lambda A - B)x = 0$ [Lin76]. (m, s) [LA89]. $(m > 0.5)$ [LMW84]. (n, n) [Lub89b]. $(\partial^2 z/\partial x^2)(\partial^2 z/\partial y^2) - ((\partial^2 z/\partial x \partial y))^2 = f$ [OP88]. 1 [ASW93, Chr70a, Chr70b, Jeg68]. $1 + 2$ [Wer79, Wer82]. $1/t$ [And88]. $1 \leq n \leq 3$ [Koh87, Koh88]. 2 [CFS97, Mal99]. 2^k [BL81]. $2m$ [Guo88, Kos85]. 3 [Jay93, Str66]. 3×3 [Bat90]. $4k + 1$ [VC92a]. << [Leb70]. >> [Leb70]. A [Alb85, Hai82, Hai86, PW93]. $A(\Theta)$ [Sav93]. A_0 [Jel79]. AB [Kub84]. $AX + YB = C$ [Zie85]. $Ax = b$ [Har80]. $Ax = \lambda Bx$ [Rod73, MW68b]. $AX \approx B$ [PW93]. B [CS94, DKS90a, DKS90b, FHL86a, FHL86b, HS81, Hun86, vV83, Cro79, Hai86, HS90, SU89, Sch87c]. β [Sto84]. C [Nør75, Lor92]. $C(\lambda)$ [Eck76]. $C[0, 1]$ [Sab78]. C^0 [Ley86]. C^1 [Gme87, KK97, Zha89]. C^2 [Cle92, SS90, SH95]. C° [Bak82]. C^ρ [LLS95]. $C_0(a, b)$ [Pal76]. $C_0[a, b]$ [Pal76]. $\mathcal{C}(\Omega)$ [Ben86]. $\mathcal{C}^\in$ [AL93]. $\mathcal{J}$ [Hom95]. $\cos(z)$ [Kap96]. CS [Ste82, Van85]. D [vV83, Wil62e]. $d = 3r + 1$ [AS90]. D^m [AY93, LA88]. e^{-z} [SSV76a, SSV76b, SVN76]. e^z [SV75, SV76a, SV78, VC94]. E_n [Wil62e]. ℓ_1 [SW87]. ℓ_∞ [BL78]. ϵ [Bre71, Bre78, Cor77, Pyl67]. $\exp(-z)$ [vI84]. $\exp(z)$ [Hai82]. f [Ans73]. $f^{(n)}(0)$ [Str73b]. G [Med73, Gra68]. GTH [O'C96]. H [Lyn63, Bea86a, Mes95, BD81, GB86a,

GB86b, GB86c, Guo88, GC96, GS98c, Li90, SS96, Bea79, FS92]. $h - p$ [GB86a, GB86b, GB86c]. H_0^1 [Hav84]. H^2 [Auz88]. H^p [AB84]. H_p [Sik82b, Ste78a]. hp [HMS99, SS97, SSS99]. $h\mathbf{Z}^s$ [RS95]. IIIC [Sch87c]. J [Ves76b, DH93b]. k [BL81, GNV86, Jac85, LP95, NV83]. $K(1/b_n)$ [FJ72, Fie78]. $K(a_n/1)$ [BJ85b, TW80]. $KCx = \lambda x$ [BRS71]. $k \times k$ [LP95]. $k \to \infty$ [LP95]. L [AD74, Gro89, Luc70, Pre71, EG94]. $L(\lambda)u + \epsilon R(\lambda, u) = 0$ [DC74]. L^1 [SO87]. L^2 [Ber73, Cas85, DDW75, Vui90]. L^∞ [CD85, Fet87, GN87, Koh87, Koh88, Noc88, SO87, SF86, Wan89]. L^p [ES90]. L^q [DDW75]. L_1 [BY66, Car72b, Str82]. L_2 [BS79, LTT92]. L_∞ [BY66, Hav84, KJ90]. L_p [Fis81, Lam70, Wol79]. $L_p(0, t_i)$ [SW96]. λ [GK90, CNV88]. $\lim a_n = 0$ [BJ85b]. LR [RS63, DT71, MW68c, PW70, Ves99]. LU [FNP82, Mes95, O'C96, Heg91, VC81]. M [Bea86a, Bod68, Kel72, Rob66, Sch73a, Bea79, Bod68, VC81]. $M/G/1$ [Mei97]. N [Hek87, LM70, Bro65b, ELR92, GR70b, Kle81b, Rut60, Str66, Str68, Mar84]. $\nabla \cdot a\nabla u = f$ [Gun64a]. $n \to \infty$ [Lub89b]. P [Cas81a, Dix82, ENR90, Kel72, Mar62, Zen86, AK99, BD81, BS89, GB86a, GB86b, GB86c, Guo88, GC96, GS98c, HP94, Heu98, Heu01, Hig92, Jen91, LV89, Li90, LK78, MP96a, Neu61, OD95, Pav94a, Pav94b, PHP90, Sar86, Sar90, SS96, Tee64, Vog83a, Vog83b, Gue86]. P1 [Osw92]. P_0 [Wil71]. P_1 [Won93]. P_k [Gue86]. $P \le A \le Q$ [Har80]. $p \le b \le q$ [Har80]. Q_1 [AKP95]. $Q_{k'}$ [Gue86]. qd [FP94, Wuy73]. QL [BMRW68, Dub70, MW68a]. QR [BMRW68, RB68, Bat90, BBdH86, BGBM89, CMR86, Leb70, MRW70, MPW70, Par65a, PW70, Sac72, Ste99]. R [BS88, AS90]. $\mathbf{R}^2$ [GH92]. $\mathbf{R}^3$ [Néd86, SS97, Néd80, Néd82]. $\mathbf{R}^k$ [GM82]. R^n [Ste75a, Sus64, Gou77, Koh87, Koh88, LA88, Rua88, Sch95a]. R_3 [Wen68, Wen68]. ρ [Bre71, Osa96]. S [Ver77b, For68b]. DQR [Uhl97]. Σ^2 [Tim65]. $\sin(z)$ [Kap96]. T [WB69]. θ [Jac84, BJ86, CG88a, Liu95]. $U(a, b, z)$ [Tem83]. $u(x)$ [Sch84]. $u''(x)$ [Sch84]. $u_t = urr + \frac{2}{r}u_r$ [Eis67b]. $u \in W_2^m$ [LMW84]. V [Reu88b]. ε [Bre75a, Cuy82]. $W^{m,2}$ [Kos85]. $\wp$ [Jar94]. $\wp(z|e_1, e_2, e_3)$ [Tod90]. X [SBH84]. $x = 0$ [Mid75]. $y'' + (\lambda + 2\lambda 1 cos\chi + 2\lambda 2 cos 2\chi)y = 0$ [Sto67]. $y'' = f(x, y)$ [Hai77]. Z [KvdD77]. $z^2 \int_0^z$ [Luk61].

-adic [Dix82]. **-algorithm** [Bre75a, Bre78, Cor77, Cuy82, Kub84, Osa96, Pyl67, Wuy73]. **-algorithme** [Bre75a]. **-algorithmes** [Bre71]. **-algorithms** [Bre71]. **-Approximation** [Lam70, WB69, LTT92]. **-approximations** [Str82]. **-body** [Mar84]. **-class** [Sto84]. **-collocation-like** [Ley86]. **-condition** [Mar62]. **-Convergence** [Ans73, DKS90a, Sch87c, DKS90b, FHL86a, FHL86b, Hun86]. **-convergent** [HS90]. **-cubic** [KK97]. **-curve** [EG94]. **-cycle** [Reu88b]. **-cyclic** [HP94, LV89, PHP90, Sar86, Sar90, Tee64, ENR90]. **-d-elasticity** [CFS97]. **-dimensional** [For68b, Str66, Hek87, LM70]. **-dimensions** [GR70b]. **-error** [Koh88, Kos85, Fet87, GN87, Koh87, Noc88, Vui90, Wan89]. **-factorizations** [Mes95]. **-Fehlerabschätzungen** [Kos85]. **-FEM** [SSS99]. **-fractions** [Gra68, Lor92]. **-function** [Jar94]. **-Galerkin** [SS97]. **-generating** [Med73]. **-generator** [LK78]. **-groups** [Neu61]. **-Gruppen** [Neu61]. **-interpolants** [AL93]. **-Konvergenz** [Ans73]. **-line** [LP95]. **-matrice** [Rob66]. **-matrices** [Lyn63, VC81, Mes95]. **-matrix** [GK90, Rob66, KvdD77]. **-Matrizen** [Bod68]. **-methods** [Alb85, BJ86, CG88a, Jac84, Liu95]. **-minimal** [Wil62e]. **-monosplines** [Gro89]. **-norm** [Hig92, Mal99, CD85]. **-operators** [Bea79, Bea86a]. **-order** [BS88]. **-periodic**

[Jac85]. **-polynomials** [Nør75]. **-projection** [DDW75]. **-projections** [Hav84]. **-Projektionen** [Hav84]. **-regularity** [Auz88]. **-Schritt-quadratische** [Kle81b]. **-series** [CS94]. **-sphere** [Str68]. **-Spline-Interpolierenden** [Sch73a]. **-splines** [AY93, LA88, LA89, SU89, SS90, AD74, Gme87, Luc70, Pre71, SBH84]. **-splittings** [FS92]. **-Stabilität** [Hav84]. **-stabilité** [Cro79]. **-Stability** [Ans73, Cro79, Hai86, Jel79, Hav84, HS81, Ver77b, Zen86, vV83]. **-stable** [Hai82, Sav93, Cas81a]. **-step** [GNV86, Gut89b, Kle81b, NV83]. **-Stetigkeit** [Ans73]. **-Symmetric** [DH93b, Ves76b]. **-ter** [Kos85, Rut60]. **-th** [Rut60]. **-version** [AK99, BS89, GB86a, Heu98, HMS99, Heu01, MP96a, OD95, Pav94a, Pav94b, Vog83a, Vog83b].

1 [Ber60]. **11/27/1978** [BGHS79]. **1333** [Lod70]. **1978/1979** [Bea86a]. **1994** [FV94].

2 [Hal60a]. **22.8.1970** [GB71]. **25.5.1980** [GB81]. **25th** [Ano83b]. **26** [SV77]. **2D** [CHS96, Roh98].

31 [Bea86a]. **37** [JN82a]. **396** [Heu01]. **3D** [AS97b, Per99].

4/21/1909 [BGHS79].

5 [Aro63a]. **50** [Koh88]. **52** [MC88a]. **58** [CS92, Lub92b].

60 [AKK+68, BBG+60]. **68** [vWMPK69].

79 [Heu01].

81e [Bea86a]. **82g** [JN82a]. **88i** [Koh88]. **88k** [MC88a].

91m [CS92]. **92d** [Lub92b].

A-posteriori [Sch96, Fae98]. **A-priori** [Gek78]. **A-stable** [Mat76]. **A.D.I.** [GM68]. **Abbildung** [Men74, Weg78]. **Abbildungen** [Bod68, Wei80]. **Abbrechen** [Lod70]. **Abel** [BJ86, BN81, Egg84, Egg88, GK66]. **Abel-type** [Egg84, GK66]. **Abhängigkeit** [Lam70, Nit62]. **Ableitsungfreie** [SV70]. **Ableitungen** [Kan73]. **ableitungsfreie** [Hae63, Häm65]. **ableitungsfreien** [Eng77]. **ableitungsfreies** [Kre71]. **above** [Mar87]. **ABS** [AGS87]. **Abschätzung** [Bra71b, Ehr69, Häm66, Sch70a]. **Abschätzungen** [Bit68, Bit71]. **Abscissas** [NR68, Ask72]. **absence** [Car72a]. **Absolute** [BSW61, BH61a, Kra86, vdGK86, Cas82]. **Absorbing** [HR95, HR87, TV98, Wag83a]. **Abstiegsverfahren** [Sch78c]. **abstract** [DC99, GO95, Pal99, Sav93, Sre69, Sre71]. **Abszissen** [NR68]. **abzählbaren** [Red67]. **Accelerated** [Han91b, Pao98, Ber84, ID86, PS84]. **Accelerating** [Cuy83a, Ste69a, TW80, Wil87, Gab84, Sch66a]. **Acceleration** [Alb62, Bra65, Lou79, Mat90, Bra70, Bre78, Chu76, DGB80, Gus85, Ho90b, JW88, KS92, Nev90a, NW84, Ort86, Osa96, Sch68b, Wal91, DGB80]. **accelerations** [Nie91]. **account** [ABF99]. **Accuracy** [FH95, JN86, dFSS97, ADK91, BS99b, CSV67, CSV68a, CSV68b, CSV68c, CSV69, CNV70, Dum98, Egg86, FGM67, GS95a, GM68, Had69b, JN82b, Kel65, Kre59, Noc89, Raz69, Ste61, Ste90b, Str86, Ura70, ZL94, Zlá70]. **Accurate** [FP94, Str64, VD91, Deá80, LRZ95, Mat96]. **achieve** [MO68]. **ACM** [PS59]. **acoustic** [GJ89]. **active** [CCCD93]. **acyclic** [KvdD77]. **Adams** [Ans63, Ans63, Jac82]. **adapted** [FF87, Mel99]. **adaption** [WW84]. **Adaptive** [BD98, BS99b, LN99, Man78b, VL92, WW97, WhY88, BV84, BB82b, BSW88, CGR94, CFS97, Dör96, GW94, GW95a, Grü97, GB86c, HP75, JM87, Jer85, SW84, Ver77a].

Addendum [BF90, Dej66a, EP76]. **addition** [CH86]. **Additive** [Cai91a, Pav94a, BD97, Bre96, FS99, GO94b, GO95, Hac92, LM99]. **ADI** [GT67, LT98a, LR93]. **adic** [Dix82]. **adjoint** [BG95, Ber59a, HR94, Jer70]. **adjusted** [DHP99b]. **adjustment** [Dia80]. **Admissible** [EM87]. **advantage** [Del73]. **advection** [DHP99b, JK91b]. **aerodynamics** [EP86]. **against** [Heb88]. **aggregation** [MS94]. **ahead** [BZS99, FZ93, Fre94, GH95]. **Aid** [Bit68, Bit71, Ess60, Sau63, Zur64]. **Airfoil** [ML90]. **Aitken** [Müh78, Nie91]. **Aitken-algorithm** [Müh78]. **Algebra** [WR71, DC99]. **Algebraic** [AV89, ELV91, LL90, TV98, VV89, Wei92a, vdS70a, vdS70b, AGS87, AM94b, ASW93, Cam93, DKS90a, DKS90b, DHZ87, EMN88, FL91, Gau73, Hai78, Han88, HS90, Jay93, Kem68, KM98, Las92, Lub89a, Not98, RS86, RRS89, RDM62, Roc88, Sch73a, SG78, Sri94, gS97, gS98b, TK64, WW68, fX96]. **algebraically** [Hai82]. **algebraische** [Sch73a]. **Algebras** [Gas71b, Ser99a]. **algèbres** [Gas71b]. **ALGOL** [AKK$^+$68, BBG$^+$63, PS59, Wyn64, vWMPK69, BBG$^+$60]. **Algorithm** [AL85, Bar91a, BW72b, BD68, DH89, Hua90, JP90, KS73, Lau67, MW68a, MW68c, MPW70, Rut63b, Smi91, Tha90, VH89, AO77b, Arn80, BDG97, BX96, BL70b, Bat90, BL78, Ber91, BHK$^+$85, BW72a, BD99, Brä81b, Bre75a, Bre78, Bre80, BRS92, BF66b, BGBM89, CR94, Car72a, Cha98, CVV88, Chu76, Chu79, Cla76, CW77, Cor77, Cuy82, Cuy83b, DT71, DH97, Dör96, Dub70, Dum98, Dzi91, EA88, EP95, ESR82, Fis81, FZ93, Fre94, GG87, GT87, GK94, GP67, Gre82, Gre79, Gre75, Gre80, Hag87, HL64a, HL65, Hee68, Heg94, Hou71, Hou73, ID86, Jer85, KC93, KZ94, KP81, KP90, Kub84, KT65, LLS98, Leb70, LR89b, LRZ95, MRW70, MvdS76, Mei66, MS99, NS95a, NS83b, NSS86, O'C96, Osa96, Owe77, Paa71, PE72]. **algorithm** [Par65a, Par67, Pei85, PB87, Pfl98, Pir82, Pyl67, Qia88, Ren80, SD72, Sac72, Sch85a, Sch98, SS90, See82, She77, Shr91, Sid82, Slo80, Stu89, Uhl97, VB92b, Van79, Van81, VN93, Ves93, Wil97, Wol79, Wuy73, Wyn59d, Wyn64, YK88, xY95, Zah77, vG80, Müh78, Müh79]. **algorithme** [Bre75a, Car72a, Lau67]. **Algorithmen** [Sto61]. **Algorithmes** [Del80, El 84, Tao84, Bre71, El 82, RM72]. **Algorithmic** [vWMPK69, AKK$^+$68, BBG$^+$60, BBG$^+$63, Müh81, PS59, CR89]. **Algorithmique** [CR89]. **Algorithms** [BY66, BL80, BE73, BMRW68, Bre70, Cai91a, CMW63, DM85, FM68, Hig87, JS91, LV74a, Lan64a, Ley90, Mat93a, MM67, Met65a, Mil65a, MT89, AS83, AM94a, AY83, Ari98, Ban78, BS77, Bre71, BZS99, BD72, CL61, El 82, El 84, EKL91, FP94, GA87, GK85, GL99, GO95, GH95, HJR88a, HJ90, Kac84, KjS95, Kin92, KvdD77, LMR95, Mey75, PE97, PB81, Ral65, RM72, jS99, Sik82b, Sre71, Ste65, Ste99, Sto61, Sto77, Sun98, Tsa79, Wer78, Wit89, Wyn59c, Wyn60, vGS84, Del80, Met65b]. **Algorithmus** [Arn80, KS73, Wyn60, Rut63b, See82]. **allgemeine** [Wet60, vW77a]. **allgemeinen** [Döh82, Haa60, Mül68]. **allgemeiner** [Sch71a]. **Allowing** [SS79]. **alloy** [BB97]. **alloys** [NS91]. **Almost** [AY93, Gut89b, SS95]. **along** [TS91]. **Alpha** [GP85]. **Alston** [Ano83a, Ano86, CV94, JHW77, H. 73, Wil78]. **Alternanten** [Pit75]. **alternants** [Bri64, Pit75]. **Alternating** [Alb62, BS85, CW79a, Dou61, Dou62a, Dou62b, GM66a, Lee61, Bad89, BS97a, Bia91, DP63, Gun64a, Had71, Mat93a, Mat93b, Mil65b, MF64, Pea62, Weg89]. **alternating-direction** [Gun64a]. **Alternation** [NS83a]. **Alternative** [MC84, CGT94, Lam80, Sán75]. **alternierenden** [Alb62]. **always** [SH95].

Alwin [Sau67]. **among** [Rob66, Wyn66]. **analog** [Bra66, Raz69]. **analogs** [Mil65b]. **analogues** [BH62, BD72, Sus64]. **Analyse** [BN90, FM92a, FM92b, Pau81b, Maî68]. **Analysis** [Ano83b, AL85, BO80, Bar91a, Ber91, BL97, Bou90, Bre70, CMQ82, CS86, CC95, DGL99, Edd93, EP94, EW92, GMP95, GHR97, HR89, Hig87, HT95, JS95, JO74, Maî68, Man83, O'C93, Ort63, PW93, Pit88, Sau78, Slo81, Wil60, YM86, Zou99, dBP77, Agu89, And71, AM88, AF89, BJ86, BC93, Bao96, BN90, BH92a, BL93, BJZ88, BP92, BL86b, BLR89, BS97c, Bri83, BHK94, Cam70, Car99, CL94, Chi91, CCK95, CE92, Cro78, DN89, DT71, DNvW84, DMJ86, Gau72, GT87, GR79, GMS95, GT82a, GB86a, GB86b, GS93b, Gut87, Hac92, HL97, Hai99, HR87, Han92, HNS95, Han80, Häu86, HUY95, HMSW99, iS91, Jac84, JT76, KS99, Lan66, LP78, Liu95, LA97, Man81a, May86, Mie79, Mil77, NV83, PE97, Pau81b, Ped96, PLCC92]. **analysis** [Per99, PZ99, Pit92, PS96b, Pot82, Rei82, Reu95, RKL89, Rok72, Sar86, Sau73, Sch85a, Sch81b, Sch88a, Sim98, Slo76, Sta97, Ste95, Stu85a, Stu85b, Sug97, gS93a, gS96b, gS98a, Tsa79, Tsu99, Vog83a, Woź78, fX96, Zah77, Zen97, Zha92b, tMS86, Ano84, FM92a, FM92b]. **Analytic** [BL74, BGBMN91, Häm66, Mor80, BLW74, BS68, Cha71, GS95a, IK77, KWW85, Kre71, Las92, LMPY85, MSW91, MSW92, Not93a, Pau77, Ste71, Wil97, Wri92, YK88]. **analytical** [Nie73b]. **analyticity** [SW99b]. **analytische** [Häm66]. **analytischen** [Nie73b]. **analytischer** [BS68, Kre71, Pau77]. **andere** [Wyn60]. **aneinandergesetzte** [Her74]. **Anfangs** [vFvH73]. **Anfangs-Randwertprobleme** [vFvH73]. **Anfangsrandwertaufgaben** [GK80]. **Anfangswertaufgaben** [Hof75, Mar75, Ans64, Ans67, Ans69]. **Anfangswertprobleme** [Sau63]. **Anfangswertproblemen** [Kre59, Mül82b]. **Anfangswertproblems** [AU61]. **Angenäherte** [Fil64]. **angenäherten** [Zur64]. **angle** [Lou86, Žen95]. **Anisotropic** [AL96, Hac89, HN92, NMC89, SSS99, Sie96, Ste93a]. **Anmerkung** [Jet84]. **Anmerkungen** [Smo90]. **Anniversary** [Ano83b]. **Announcemen** [Ano83a]. **Announcement** [Ano86, Ano98a, Ano98b]. **Announcing** [Ano83b, Ano84]. **annular** [CM70, PPSS97]. **Anwendung** [Com59, Mar65, Sch66b]. **Anwendungen** [Had69a, Mar75, Rei71a, Sch77a, Wit78c, Ale71, BH74, Hof70, Kos86, Kul68]. **Anwendungsbereich** [Sch70b]. **any** [Man78a]. **Anzahl** [Hüb82]. **appearance** [Chi99]. **appearing** [Bri64]. **Appendix** [Sch95a]. **applicable** [DPRW93]. **Application** [AABM98, BH61b, CR94, Hac89, Kat60, LV74a, Pau81a, Pau81b, RR90, Sch70b, TK64, Vog83b, AK99, BG76b, Bit70, BHK94, Cha73b, Deu74, Deu79, FG77, Fra76, Fra77, Huc98, Le 82, LA97, Mar75, McC75, MS85, MI82, Nie80, RRS89, SL86, SU89, Tee64, Tou92, Tsu99, Zen84a, Ale71, Bre72, Mei66, BH74]. **Applications** [BS77, BM87, CD90, Kul68, Laf75, LL90, Tan71, Van94, vGS84, BJ89, Bar93, BL76, BS97a, BSV68, BH71b, CW71, DML83, Dah85, Kos86, Krä89, Müh78, Müh79, NN87, Pir82, Pyl67, Rei71a, Rob71, Wit78c, Wit90, Žen95]. **Applied** [Kes79, And71, BS96, BEHH75, CL75, DP72, DN89, Fis61, Gol81, GP78, GLC89, Hac77b, Han97, Hoc79, LV89, NS95b, NS96, PV72, PR94, SSVH87, Sar86, Sar90, Sar96, Ste93a, Wes75]. **appliquée** [CL75, Kes79]. **Approach** [ADdR89, KM86, AO93, AG91, BB82b, CDV99, CKSS97, Chi99, DC99, DNvW84, FF97, Fro88b, Gün98, Har62, Krä89, Kul71, MO78, MD77, Mey75, Müh81, Rum96, Slo88, SD94, Sug97, VB92a]. **approaches** [CZ99]. **approximant** [Ben86, JT76]. **Approximants** [DD84b, DD84a, Cha84, Cuy82, Cuy83b, CV84b, DMGVO96, SV75,

SV76a, SV78, VC94]. **Approximate** [AU61, Leh61, NR68, OP64, Zur64, Ama72, Ban87, BR81, BS92b, CH60, CW78, DPRW93, DM96, EN88, Ell79, EP95, GP79, HR94, Hop81, KL83, Leh67, LE81, Mag92, Mit78, Not98, Owe77, PLCC92, Per66, RS96, Sch79a, Sch87d, gS97, gS98b, Šve70, Tho75]. **approximating** [Dör90, Gue94, Mon92, PS92a, Wil97]. **Approximation** [Alb60, Arn82, Aum63, BL86a, BO90, BD82, BDT88, Ber82, Bla77a, BL81, BL67, BS68, Cha73b, Com85, Con84, Cro77, DN86, Ehr69, Ess60, Fag82, Fil64, Gai70, Gme87, Gri75b, Gri75c, Gri75a, GJ89, HSS96, Her70, Hof69, Hof70, IK89, KK74, KK76, Koc95, Kol78, Lam70, Lus96, Mit73, MRMW90, Mül68, Nat70, PPSS97, Rap77, Rap84, Sch70a, Sch95a, SS65, SB90, Sik61, Str72, Tay69a, VV84, Wag83a, Wer62, WB69, Wet70, Wol78a, Zur64, AGS98, AK99, AO76, AO77a, AO77b, AD73, BS92a, Bac70, BDS80, Ban92, BS92b, BE86, BE87, BS91, BC91, BL94, BB95, BW95, BB97, BBG98, BS99a, BS79, BL78, BMM87, Boe64, Bra71a, BRR80, BRR81a, BRR81b, Bri64, BD72, CMQ84, CC91, Car72b, CD73, Cha97]. **approximation** [Cha71, CG59, CL61, CL62, CFH68, CDR98, CD85, Cro80, DD98, Dob89, DGP93, Dun67, Dun68, Elb91, EK99, Fei87, FN98, Fet87, Fis81, Fis93, FR86, FGM87, FH90, Gar65, Gek74, GP79, Gol63, GR86, Gue94, GQ98, Gün94, GHR97, HS97, HS79, HS80, Hay65, Hin96, HT95, Hwa99, Ish79, JK91a, Jer70, JO80, Joh69, Kik81, Kiw84, Kre59, Kri64, Kut71, Lam80, Lau67, LPDT70, LMGR94, Law64, LMW84, Le 80b, Le 82, LR89a, LTT92, Li97, LMS77, MP95a, MPP99, Mei66, Mei67, Men74, Mey79, MM74, MP92, Mor94, MSW88, NS95a, NS81, Nie73a, Nit70, Nør75, NSS86, Opf82, PB87, Per99, Pit73, Pom68, Prö91, Qun91, Ral65, RSSV97, Rau86, RL81, Rei82, Reu88a, Reu88b, Rie91, Riv62, Rou87, RO70, Row71]. **approximation** [Saa86, Sac88, SA84, Sch88b, Sch78c, Seo95, Sik59, Soc88, Spa94, SW87, Ste66c, Sti60, SF86, TT87, Tor97, Tre81, Tsa77, VB92b, VŽ95, Ver87a, Ver87b, Ver91a, Vui90, WSB67, Wer86, Wid77, Wol79, Zha93, ZL94, vG82, Cha73b, LA88, LA89, Nat70, Sch71a, Sik59, Cro77]. **Approximationen** [Bla77b, Het75, Mer92, Bro65a, Cro76, Het74, MW60a, MW60b, PS66, Sti59]. **Approximations** [Cho90, Jou71a, Kal74, MW60a, MW60b, Moo68, PS66, Rob71, Sti59, AKK74, AF88a, AG88, And88, Aro63a, Aro63b, BBFS90, BL70a, BY66, Bey78, Bla77b, Bra69, Bro65a, CH71, CGH76, CS66, CS68, Dan66, Des61, DM85, DD74, FL70, FN72, Fun88, Gal89, Gau84, GM86, Hai82, Hel87, Het75, HMSW99, HMW86, Ish84a, IU82, Jam70, Jou71b, Kel65, KJ90, Kos85, LN99, Las92, MQ81, Mer92, Mül79a, Mül79b, Mül80, NS91, Nit62, NS83a, OW69, Por78, Pru75, Red88, RG88, Ric78, Ros75, SVN76, Sav93, SHH85, SS98, Spe71, Ste78a, Ste99, Str82, SP94, Vei60, Voi74, Won84, Yse83, Zou97, vI84, vV76, vPS96, Rob71, Cro76, For72, Het74]. **Approximationsaufgaben** [Sch78c, Wet70]. **Approximationseigenschaften** [NR68]. **Approximationsproblemen** [Aum63]. **approximative** [Str66]. **Approximierenden** [Nit62]. **äquidistanten** [Sch80a]. **Äquivalenzsatzes** [Ans66]. **Arbeit** [Ber60, Dir69, Els69, Had72a]. **arbitrary** [AR93, Bad89, Dol81, FQ99, Gme87, GH73, LG76a, LG76b, LL85, LZ80, Mar84, Mül79a, Mül79b, Mül80, Ves76a, Ves79a]. **Arch** [Zha92b, BD82, HC92, Red88, Zer94, Zha95]. **arches** [Ish81, Ish85]. **area** [ES92]. **argument** [YK88]. **arguments** [Sal64]. **Arise** [Nab92, FR86]. **Arising** [Cia90, BS88, CHS96, CGT94, EM91, KN84,

OD95, Saa86, Šve70]. **Arithmetic** [LV74a, Lor92, Nic66b, Pic72, FM68, GH72, Ish85, Kup71, MM67, Met65a, Met65b, MH72]. **arithmetic-geometric** [MH72]. **Arithmetik** [Kup71, Nic66b]. **Arithmétique** [LV74a, Pic72]. **Arnold** [Dur91]. **Arnold-Falk** [Dur91]. **Arnoldi** [Sad93b, Sad93a, Sim98, SV93]. **Arnoldi-Chebyshev** [Sad93b]. **Arnoldi-Faber** [SV93]. **arrays** [Wim74]. **ART** [EKL91, Yse83]. **artificial** [HB97]. **ascent** [Buc62]. **Aspect** [Nic74]. **aspects** [Bro68, GS77, Rut69]. **associated** [Gut89a, RM72, Sab78, Skr98, SF86, SW80, Utr83]. **Associative** [Mai67]. **associée** [Mai67]. **associèes** [Sab78]. **associés** [RM72]. **assumption** [Kil75]. **assumptions** [Yam86b, Sch75d]. **Asymptotic** [AF89, BM96, Bar68, BLR86, BS66a, CS98, DVZ98, Din83, Gri75a, HL84, HW84, Hoc79, Hof67, Jac84, Kim96, Luk93, Mik70, Pin75, Sha84, ST90, Ste65, SP94, Wal91, Wan89, Zen97, BYI86, CG88a, DMR91, DR92, Fie87, For68b, Gug97, Ish84b, IU82, JW88, NW73, Wes75, Mer92, Ort86, Sch66a, Sch68b, Wol78a]. **Asymptotically** [Ess60, KV72, MM74, KW99, Köh95, Wil97, Zer94]. **Asymptotics** [Car92, ELR92, Pet93, VC94]. **asymptotisch** [Ess60]. **Asymptotische** [Gri75a, Fie87, Mer92, Sch66a, Sch68b, Wol78a]. **asymptotischen** [NW73]. **Asymptotisches** [Ort86]. **asynchrones** [El 82, El 84]. **Asynchronous** [FS94, BMPS99, El 82, EKN92, El 84]. **attaining** [VC92a]. **attenuated** [Nat79]. **Attenuation** [Gau72, Gut87, LTT92, Yan94]. **attracting** [KL90]. **attraction** [Bra77]. **Attractive** [HV85]. **attractors** [DH97]. **Aufgaben** [Boh67]. **Auflösung** [Alb61a]. **Aufspaltungen** [Tro76]. **auftretenden** [Wer72]. **Augmented** [ADdR89, BL97, Gov90, KP91, Sch81b, Sch81c]. **Ausdehnung** [Rut63a]. **Ausgangsvektoren** [Sch64a]. **ausgewählte** [Mar65]. **Ausgleichsproblems** [Sau84]. **Ausgleichung** [Läu61]. **Ausnahmemengen** [Red67]. **Aussage** [Hav84, Pit75]. **Auswahlproblem** [NO68]. **Auswertungsverfahren** [Rei75]. **Author** [Ano83c]. **autoadjoints** [Cha73b]. **automatic** [Chr70a, Chr70b, CC60, DD78, Gao89]. **Automorphism** [FN68]. **Automorphismengruppe** [FN68]. **Autour** [Rob76]. **aux** [AABM98, Cha73b, Del73, Kes79, Pau81a, Pau81b]. **Available** [Dek71]. **avantage** [Del73]. **average** [GNP89, Nov86, WW84]. **averaging** [Kir88, KN84]. **avoids** [AD64]. **Award** [Ano83a, Ano86, Ano98a, Ano98b, JHW77, H. 73, Wil78]. **Ax=b** [HW78, Owe77]. **axiomatic** [Kul71]. **Axisymmetric** [RBS82].

Backward [CI94, Hai99, Pal99, gS93a, gS99, dBP77, vdHtR81, Cas80b, Dei89, Gek78, Gek82, HL97, Lu97, LM98]. **backwards** [Höh82]. **Bad** [Tyr94]. **Bairstow** [FK87, IM94, Sal61, SZ61]. **Balancing** [ByS99, PR69, Läu61]. **ball** [Tao84]. **Banach** [Dör70, Ade69, Dör70, Gal89, LW82, Mey84b, Mil80, Pie72, Söd86, Yam87]. **Banach-Räumen** [Ade69, Dör70, Mey84b]. **Band** [MW65, MW67, ALM97, All70, All73, ER67, MRW70, Sch68c]. **bang** [GS77]. **bang-bang-principle** [GS77]. **Bank** [DR92]. **Bank-Weiser** [DR92]. **Bareiss** [Fre94]. **barrier** [CGT94, Jar94, JKR88]. **Bartky** [Bul69a]. **Bartky-transformation** [Bul69a]. **Barycentric** [Ber89b, Ber89c, Hen79]. **Base** [Laf75]. **Based** [Dag90, BS97b, CGR94, Car91, Cha99, DP88a, FHLM88, Gau61, Hac92, Jar94, Jer85, Jer89, Kan98, Kil75, Kir88, KP90, Mat90, Par88, Ser99b, Slo88, Smi65, Woh99, Wyn62, Yse90]. **Basen** [Hal92]. **Bases** [Sab78, CP94a, Hal92, Hwa99, Laf75,

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[Att68, OW69, PS82]. **definierter** [PS82]. **définies** [Att68]. **Definite** [AR85, EHM94, Kna71, MW65, MPW65, MPW66, Nic74, BE87, Huc98, Mat96, Mis99, gS83, Ves93]. **definiteness** [All70, DE94, FP66, Wet70]. **definiter** [Kna71]. **Definitheitsbedingungen** [Wet70]. **Definition** [dJ77]. **deflating** [gS96b]. **Deflation** [BG71]. **deformations** [LV84, LV84]. **degenerate** [BBG98, BW93, MP95a, Slo76]. **degenerate-kernel** [Slo76]. **Degeneration** [Des61]. **Dégénérescence** [Des61]. **degré** [LL85]. **degree** [AS90, CW79b, DV97, ELR92, Fri70, vG72, Gün75, HP76a, Kea79, LL85, OO98, Rei84a, Sar88, Sau97, Sik59, Sri94, Ste75a, Str66, Str67, Str68, Sty79, Sty81, VC92a]. **degree-computation** [Kea79]. **degrees** [Bea86b]. **delay** [BZ85, BJZ88, BMR96, CG88a, CŠ79, Gug97, GH99, Had80, iS91, IK89, Kot98, OP81, QYK99, Tor91, Ver92, Zen86, Zen97]. **delay-differential** [BJZ88]. **d'éléments** [Con84, Tro90]. **demi** [DRW81]. **demi-espace** [DRW81]. **denominator** [Lam70]. **denominators** [vI84]. **Dense** [HO90a, CGC95]. **density** [HT95, Lus96]. **dependence** [MVW79]. **Dependent** [BB90, Arn81, BO80, BS97b, CZ99, Dör96, Fag82, FN72, GS93b, Lan64b, Pal99, PB81, Sch99, Sch86]. **depending** [DL97, MS78, Wol78a]. **d'équations** [Del73, Tho90]. **d'équilibre** [LV84]. **derivation** [OO88, TV98]. **Derivative** [BD72, Hae63, BLLN95, Kio79, Kre71, Mat92]. **Derivative-Free** [Hae63, Kio79, Kre71]. **derivatives** [Brä81b, CMO91, FG73, GW86, GM94, Häm65, Kan73, KM91, LMW84, LM69, LR98, Mon87, Voi79, Eng77]. **derived** [SG78, Yam86a]. **deriving** [HJR88b]. **d'erreur** [AABM98, Cha79, FM92b]. **Descent** [Bol84, Rus84, Sch78c]. **Design** [Lod70, PS96b, Cas81b, GMP95, GM94, SD94]. **detecting** [BK87, Neg90]. **Detection** [GS96a, LV74b, Ren85, LV74b]. **Deterioration** [HC92]. **determinant** [Mar62]. **Determinantal** [Hom95, Wag80]. **Determinantenmethode** [Wag80]. **Determination** [Bra61, KO98, DA71, ESR82, GH72, KM98, Vas88, Vei60, Wei80, Gai72, Haa60, Men74, Neu61, Rut66a]. **determinations** [Kem68]. **determined** [Par62b]. **Determining** [Dir69, EG94, Gre75, HR79, VN93, Wer79]. **deux** [Cha84]. **development** [Mar73]. **deviation** [RO70]. **device** [CC95]. **d'évolution** [Cro80, RW85a]. **d'extrapolation** [Bre72]. **Dezimalzahlen** [Lod70]. **DFT's** [Hek87, ST89]. **d'Hermite** [Gou77]. **Diagonal** [Por66, SW62, MP96a, Man90, Peñ98, Ros64]. **diagonalising** [Ves76b]. **diagonalization** [MP85]. **diagonalizing** [Ves79a]. **Diagonally** [FNP82, VN93]. **diagrams** [Had80]. **died** [GB71, GB81]. **dielectric** [BP92]. **Difference** [AKK74, AU61, Ans69, Jou71a, Kre63, Mir71, Rut63b, Sus64, Tör63, Uhl62, vFvH73, Akr92, Aro63a, Aro63b, Asc85, Auz87, Bey78, BS96, BH62, Bra66, Bra69, BEN93, Cam70, CK82, CT93, CL96b, Dej66a, Dej66b, Del73, Dob89, Dou61, Dou62b, Eis67a, FGM67, Föß89, Gai72, Gek74, GK80, GW95a, Gor70, GM66b, Gri70b, Gri70a, Gri85, Gun64b, Had69b, Hel68, Her90, HMW86, IJ87, JBC92, Jam70, JK91b, Jou71b, Jov89, KM67, Kel65, KKL97, Koß81, Kre59, Kut71, LMW84, Lee61, LRT64, May65, McA68, Mer67, Nat75a, Nii84, Nii85, OSS90, Pao85, Pao98, Par59, Par61, Par62a, Par62b, Rei65, ST73, STR76, Sei63, Spi71, Sta77a, Sta80, Ste61, Ste63, Str64, SO87, SO89, SS95, Sun68, Tau76, TW68, Tho71, Van79, Wid66]. **difference** [Yse83, YM86, ZG78, Zen84b, Sau63, See82]. **difference-differential** [Zen84b].

differences [Cry73, GJ89, Lar81, Loc80, Mey79, Müh79, Sal64, Str73b, Del73]. **different** [SP72]. **différentes** [SP72]. **differentiability** [Rok72]. **Differentiable** [Ehr69, GK64, Aus71, ASS88, BL67, BS68, For78, Nit62]. **différentiables** [Aus71]. **Differential** [AU61, CKP95, Kre63, Nat70, Nat71, Red67, Rut60, SS66, Sch61a, SG62a, SG62b, SEG62, Sto70, Tör63, Uhl62, Wal68, Wri92, AKK74, Alb60, AU62, Alb78, AD93, AM94b, And69, Ans63, Arn79, ASW93, Aro63a, Aro63b, Axe77, BD83, Ban87, Bel83, BZ85, BJZ88, BSV68, BMR96, BS66b, BEHH75, CG88a, CGPM98, Cam93, Cas78, Cas83, CP76, CS76, Cha73b, CL75, CT91, CŠ79, Chr70a, Chr70b, CG67, Coo71, CW78, Cry73, Del73, DD98, DHZ87, DE94, DE96, DLO$^+$77, DH80, DPRW93, Ein71, ESS92, Ess77, FG73, FP94, För67, FL91, Gar96, Gau61, GS74, GF73, GP65, GHR65, GeN80a, Gug97, GH99, Hac77b, Hai77, Hai79, Hai81, HL88, Han94, Han88, Hil83, HW87, HL99, Hor75, HI71, HL60, iS91, Ise84, Jac79]. **differential** [Jac82, Jac84, Jay93, KR79, Kel65, Kem72, Koc95, Koß81, Kot98, Kre59, KM98, Küp76a, Küp76b, Küp78, LS66, Lan77, Lee61, Leh67, Lin75, Liu95, Lub82, Lub89a, Lub91, Lub92b, Lyc72, Man78a, Mar75, Mat76, Mey70, MM74, Mül79a, Mül79b, Mül80, Nat69a, Nat75a, OP81, OW69, Par65b, PS75, Pfl98, QYK99, Raz79, Red77, RRS89, RW85a, Roc88, Ros75, SSVH87, Saw82, Sch87a, Sch95a, Sch61d, Sch61e, Sey79b, Sey83, Sha67, Squ69, Sta80, Sti88, Sto67, Tan92, Tho90, Tor91, Tro71, Tur78, Ura70, Voi74, Voi79, Wag76, WL79, Wag80, Wag83b, Web79, Wer68, WH86, Wet60, Zad76, Zen84b, Zen86, Zen97, Zha93]. **differential-algebraic** [AM94b, ASW93, DHZ87, FL91, Han88, Jay93, KM98, Lub89a, RRS89]. **differential-equations** [Alb60]. **Differentialgleichung** [SS66, Sch61a, SEG62, Sto67, WL79, SG62a, Uhl62, Wag76, Wag80]. **Differentialgleichungen** [AU61, Arn79, Mar75, Mül79a, Mül79b, Mül80, Nat69a, Nat70, Red77, Rut60, Sch61d, Sch61e, Tro71, WH86, Ans63, Ess77, För67, GS74, Koß81, Kre59, Kre63, Leh67, Nat75a, Red77, Tör63, Wal68, Web79, Wet60]. **Differentialgleichungssysteme** [Saw82]. **Differentialoperatoren** [Küp78, Küp76a, Nat71]. **Differentials** [Leg66]. **Differentialungleichungen** [Red67, Sto70]. **Differentiated** [NR68]. **Differentiation** [LM66, Sch63, AB74, Cas80b, Cha61, DA86, Eng72, Gek78, Gek82, KW95, Kra63, Pal76, Pal77, Sal60, Sal63, Sch64b, Tsu72, Wei92b, vdHtR81, Sch64b]. **Differentiations** [Pal76]. **Differentiations-** [Pal76]. **Differentiationsformeln** [Pal77]. **Differentiationsverfahren** [Eng72]. **différentiel** [Hil83]. **différentielle** [Hai77, RW85a]. **différentielles** [CL75, Del73, Tho90]. **differentiels** [Cha73b, HW87, Leg66]. **Differenzapproximation** [Kre59]. **Differenzen** [Loc80, Rut63b, See82]. **Differenzenapproximationen** [Yse83]. **DIfferenzengleichungen** [ST73, STR76, Gri85, Gri70a]. **Differenzenmethoden** [Gai72]. **Differenzenoperatoren** [Gri70b]. **Differenzenschemata** [Gor70]. **Differenzenverfahren** [AU61, Ans69, Bey78, GK80, Nat75a, Uhl62, Koß81, Rei65, Sau63]. **Differenzenverfahrens** [vFvH73]. **differenzierbare** [BL67]. **differenzierbaren** [Nit62]. **differenzierbarer** [BS68, Ehr69, For78]. **differenzierter** [NR68]. **Differenzmethoden** [Kre63]. **Differenzverfahren** [Tör63, Tau76]. **difficulties** [MP95b]. **diffraction** [Bao96]. **Diffusion** [Cai91a, Jou71a, ASS88, BBFS90, BB92, BS91, BW95, CC95, EK99, EGH99,

Gor70, GLC89, GS93b, HR95, Hem98, JMT97, Jou71b, KR97, Kre68, KP91, Lub92a, LO98, Nii90, Pao85, Pao98, Pir82, Ran84, Reu95, Soc88, SO89, SS95, TL91, TS91, Ver98a, Ver98b, YM86]. **diffusion-convection** [SO89]. **diffusion-type** [GLC89]. **Diffusionsgleichungen** [Gor70]. **digit** [Deá80]. **digital** [Gün98]. **digitalen** [Lin62]. **digraph** [vG80]. **dilation** [Mei86]. **dimension** [AS90, BL81, CP76, Fun88, GK94, Nak85, Seg99]. **Dimensional** [Jou71a, KS73, LB97, AF88a, AFW93, Ale86, BV84, BF70, Bou90, BRR80, BRR81a, BRR81b, CH71, CKSS97, CSV67, CC85, CH89, DP85, EP86, For68b, For85, FH90, GB86a, GB86b, GB86c, Gün75, yGL93, Hal60a, Hal60b, Han94, Han80, HS83, Hek87, Jam70, JM78, Jou71b, LSW85, LM70, MT78, Mit73, Mon84, NV80a, NR96, Oga89, Rau86, RK84, Rhe88, Rua85, Sac88, Seo95, Sha70, Shi79, Söd86, SV79, Str66, Ver84]. **dimensionalen** [KS73]. **Dimensions** [Smi91, BP85, Cha99, DSW96, GR70b, GC96, Han91a, Heu98, Heu01, HH99, KZ74, KNR95, MBL90, MMS92, Pow94, Zwa73]. **DIN** [Lod70, Lod70]. **d'intégration** [GG86]. **d'interpolation** [Che79, Gou77, LA88, LA89, SA84]. **Diophantine** [Gre80, HL64a, HL65, RL66]. **diophantisches** [RL66]. **Direct** [ABS84, BKP79, JO74, LRT64, Mer67, SZ91b, Tha90, Bjö88, LE81, SS88, Sun95]. **direction** [Bia91, Dou61, Dou62a, Dou62b, DP63, GM66a, Gun64a, Had71, Lee61, MF64, Pea62, Ste73a]. **directions** [For68b]. **directly** [HSY91]. **Directory** [Ano99]. **Dirichlet** [BS89, BE86, Bör89, BH62, Bra69, Cas85, Dry82, DRW81, GH92, HMW86, KS98, KS83, Mey79, SB90, Shi79, WZ95, Wil61, Won92a, Won92b, ZG78]. **disc** [BP98, Sun95]. **discontinuities** [CS76]. **discontinuity** [DJ69]. **Discontinuous** [BS92b, SW96, DSW96, FG73, Man78a, Sar97, Ste90b, Žen90]. **discrepancy** [Pla96, Whi77]. **Discrete** [AO76, AO77a, AO77b, AD74, Böh81, Cho90, CV70, Des61, DP82, FF94, Gau84, Hal77, Ple76, Sti59, WB69, Ain98, AGS98, ADK91, Auz88, BY66, BM87, Boh80, CRZ99, CZ99, Dob89, Fis81, GLM89, GLM91, Grü97, Hüb82, JO80, Kil75, Kos86, Lin93, LA88, Lor77, Mar90, NV80a, NY83, PS75, Pom68, Stu76, gS98b, SSBB88, TV98, VB92b, Wer62, Wil61, Wol79, For72, Gri75b, Gri75c, Gri75a]. **discrete-ordinates** [NV80a]. **discrete-time** [gS98b]. **discrètes** [Des61, LA88]. **discretisation** [Jeg68]. **Discretization** [Arn81, Bru78, Li90, MSF91, Mül82a, Akr92, AD93, DMJ86, Fae98, FR84, Gar96, GKR86, Hac77b, Hof67, Lin75, LS92, Lub94, LO98, Sch94b, Ste65, Ste78b, Web94, Yse89]. **Discretizations** [KP95, Wat68, Ess77, EN80, GO94b, JN81, JN82a, JN82b, OP88, Ste68, VW92, Ver91b, Woh99]. **discretized** [Krä89, Lub88a, Lub88b]. **discs** [DZ75, JS70, Zen84a]. **disk** [BK96, Tre81]. **diskete** [Wer62]. **diskrete** [For72, Kos86, Sti59, Gri75b, Gri75c, Gri75a]. **diskreten** [Hüb82]. **diskreter** [Lor77, NY83, WB69]. **Diskretisierung** [Jeg68]. **Diskretisierungen** [Ess77, EN80]. **Diskretisierungsverfahren** [GKR86]. **Disks** [MV68a, MV68b, Bau68, Med71, Med73, Por66, Ste67, Tod65, Var64]. **Dismantlings** [Kul68]. **displacement** [RS68]. **disque** [BK96]. **dissection** [CR89, GT87, Rom85]. **dissections** [CR89]. **Distance** [Dem87, He97, Mal99]. **distances** [Ric74b]. **distinct** [vK66a]. **distributed** [Arn82]. **distribution** [AL86a, CDV99, JTW89, Loi68, NW73, Sim78, VL92, Yam75, Yam76]. **distributions** [Gau84, GM86, LW99, Won93]. **divergence** [Axe77, FK87, Sar90, Vog83b, WH86]. **divergent** [Nin66]. **Divergenzaussagen**

[WH86]. **Divide** [Cup81, GR90, KM86, BDG97, BG94]. **Divide-and-Conquer** [KM86, BG94]. **Divided** [Sal64, Lar81, Müh79, Loc80]. **Dividierte** [Loc80]. **divisor** [BZ82]. **divisors** [Akr88, Wil84]. **do** [EN88]. **Domain** [Bör90, Fun88, Kim98a, Smi91, d'H93a, BD98, BE87, Bör89, ByS99, Bre99, CGK92, CKL98, CGC95, DG86, Fis93, HB97, Kim98b, LB97, LA88, Lor80, MQ89, NN97, PS92a, QLV91, YK88, Küp76a, Küp78]. **domaine** [LA88]. **Domains** [Sar90, Ain98, Auz88, BR72, BG76b, Bou90, DG98, DZ71, Ell79, EJSS97, GH73, Gri80, GS98c, HS97, Hof67, HP83, KS98, Kre90, Pal99, Qun91, Sar88, Ste93a, Sym67, Sym69, YN93]. **dominance** [Peñ98]. **Dominant** [FNP82, Mat80, VN93, Yam66]. **dominated** [Mat80]. **dont** [BN90]. **d'opérateurs** [Cha79]. **Doppelschichtpotentialen** [Wen68]. **d'ordre** [LA89, SA84]. **d'Orlicz** [Rob71]. **Double** [Spe71, Leb70, Lus96, Rat93, Sug97, Wen68, vG82, Ish85]. **doubly** [HP83, Sym69]. **doubly-connected** [HP83, Sym69]. **Douglas** [Gun64b, MF64]. **Downdating** [EP94]. **Drazin** [SFR93]. **drift** [CC95]. **drift-diffusion** [CC95]. **driven** [NV96]. **drop** [Edd93]. **Dual** [FF97, GL65, Neu60, GS74, Kiw94, Kle66, SS90, SS98, Neu61, VV98]. **dualen** [GS74]. **Dualitätssatz** [Sto64b]. **Dualitätssätzen** [Bit68, Bit71]. **Duality** [Bit68, Bit71, CS88, Sto63, Meh67, Sto64b]. **dualization** [Krä89]. **Dualmaschine** [Neu60, Neu61]. **Dualmaschinen** [GL65]. **duals** [Chu76]. **Duffing** [vD73]. **d'un** [Cha73b, DRW81, FM92a, FM92b, Hil83, LV75, Maî68, Pau81b, Rob66]. **d'Une** [LV74b, CL71, Lau67, Mai67, Pic72, Rob66]. **dünnen** [Hal92]. **duoplex** [KT65]. **duoplex-algorithm** [KT65]. **duplication** [Car79]. **durch** [Ehr69, Küp78, Nat70, Nat77, Sch78b, WL79, Wyn60]. **dynamic** [BS97c, Hod67, Man83, Tur78]. **dynamical** [BK98, Che97, KjS95, KL90]. **dynamics** [Dör90, SFR93, VG88].

each [KK97]. **Eberlein** [Har82]. **economical** [Ste76a]. **écoulements** [BN90]. **edge** [Per99]. **edges** [Heb88, LRT93]. **Editor** [FV94]. **Editorial** [Cia98]. **Eduard** [BGHS79]. **Effect** [BO90, JN94, Ban92, BR88, NV96, SK96, VŽ95]. **Effective** [Had80, CD79, GP67]. **effects** [BS92a, Nit76]. **effektiven** [KR82]. **Effektivität** [Saw82]. **efficiency** [Hal60a, Hal60b, Oli71, Saw82]. **Efficient** [Ban78, BS79, FGS95, Fer97, MP85, Sto83, CVV88, Kea79, KR82, LRZ95, Mit80, Mit81, Sch81c, Ste99, Tsa77, Wam94, dHH87]. **Eigenanalysis** [EO99]. **eigenfunctions** [Küp76b, PV72, Sti88]. **eigenpairs** [Sad93b]. **Eigenproblem** [BF66a, BNS78, Cup81, EB68, MW68b, BRS71, Ebe70, RS68, Roa71, Ruh70, Ves76a, Wil72, dV73]. **Eigenproblems** [GR90, BDG97, Faß97, Jia98, MS95a]. **eigenreduction** [Ves93]. **Eigenschaften** [Eck68, Sch73a, Kle81a, Sto70]. **eigenspaces** [gS83]. **Eigensystems** [Mue66]. **eigentuple** [BC78, BG78]. **eigentuple-eigenvector** [BG78]. **Eigenvalue** [BO90, Bra61, CI94, Had68, Had69a, Hav77, Leh63, Leh66, Mor74, Nat70, Nod71, Ort63, SZ91a, AP85, AL86a, Ban92, BK81, BG94, CDR98, Cry67, Dei89, Döh82, Fis93, FG89, GK90, Geo79, Gri70a, Gri75b, Gri75c, Gri75a, Haa60, Ish81, Ish85, Kol78, LR89b, Lin76, Mat96, Mer91, Mer92, MSW88, Mül82a, Osb69, Paa71, PV72, Pon66, Qun91, Ran79, Ric74b, Ric74a, Rod73, Sad93a, Smi67, Spe75, Spr80, gS92, gS95b, gS99, SW80, Utr83, VŽ95, Wet60, Wol78a, CSV68b]. **eigenvalue-problems** [Gri75a]. **eigenvalue/eigenvector** [Pon66]. **Eigenvalues** [MBW67, BD73, Eck68, Kna71, KM86, MV68a, MV68b, NR68,

Rut66a, Sch70a, SG62a, SG62b, SZ91a, Sto70, gS91, AP86, BG95, BMX98, Ber84, DL97, DZ71, Döh82, Enn95, ESR82, Haa60, HUY95, HVW70, Kel65, Kel72, vK66a, Kut71, Lan64b, Lin76, Mal99, MO64, MV80, Nat69a, Nat75a, PR69, Par73, Pól68, Pru75, RW65, Sch79a, Shr91, Spe78, Spe79, Sti88, Tod65, VD91, Var64, VW79, Wag83b, Wei92b, Wei63, Wil62a, Wol78a, Yam68, Yam80, Yam82, Ye95, Zen72, Žit89, Mar90]. **Eigenvector** [PW84, BC78, BG78, Pon66, SW80]. **eigenvector-eigentuple** [BC78]. **Eigenvectors** [BD73, MW67, PW70, CH60, KL83, PR69, Shr91, Ste69a, Wil62b, Wol78a, Yam80, Yam82]. **Eigenvektoren** [Wol78a]. **Eigenwertaufgaben** [Lin76, Nat75a, Ric74b, Wet60, Had68, Had69a, Mer91, Mer92, Wol78a]. **Eigenwertbestimmung** [Bra61]. **Eigenwerte** [Bra71b, Döh82, Haa60, Kna71, Lin76, Nat69a, Nat70, Rut66a, Sch70a, SG62a, SG62b, Wol78a]. **Eigenwerteingrenzungen** [Leh66]. **Eigenwerteinschliessungen** [Leh63]. **Eigenwerteproblemen** [Gri75a]. **Eigenwertnäherungen** [Sch79a]. **Eigenwertproblem** [Hav77]. **Eigenwertproblemen** [Gri75b, Gri75c]. **Eigenwertproblems** [Gri70a, Döh82, Haa60]. **eighth** [Cur70]. **Eindeutigkeit** [Bro65a, BL67, Mül68, Pet70]. **einem** [Smo90]. **Einfach** [Wen68]. **Einfach-** [Wen68]. **einfachen** [Zhe89]. **Einfluß** [Nit76]. **Eingabelung** [Mar70b]. **eingeschränktem** [Zet70]. **einige** [Kul68, Eck68, Gri85, Had69a]. **einiger** [Cro77, Fie87, Saw82, Sch70b, Sik61]. **Eins** [Kle81a, Kle81b]. **Einschließen** [CS59]. **einschließende** [GKR86]. **Einschließung** [Hof75, Sch66a, Sch68b, Spr76, Sch78b]. **Einschließungen** [Nat69a]. **Einschließungsaussagen** [Küp78]. **Einschließungsenaussagen** [Küp76a]. **Einschließungssaätze** [Wer69]. **Einschließungssatz** [Wet60]. **Einzelschrittverfahren** [Due59]. **Einzugsbereiche** [Bra77]. **Elastic** [Cia90, AT79, AR93, DG86, Han92, NMC89, RSSV97, RG88, Vas88, d'H93a]. **elastic-plastic** [Han92, RG88]. **elasticity** [AS97b, ADG84, AF88b, BS92a, BD82, CFS97, CD98, FF97, FHLM88, Han94, JM78, Le 82, Mor89, Neg90, Rei91, Ste86, Ste88, SS96]. **elastodynamics** [Mak92]. **elastoplasticity** [Car99]. **elastostatics** [BCS96]. **elastoviscoplasticity** [BL86b, BLR89]. **electrochemistry** [HT95]. **electromagnetic** [PR93]. **electromagnetics** [HS83]. **electromagnetism** [de 95]. **Electronic** [Neu60, Neu61]. **elektronischen** [Neu60, Neu61]. **Element** [BO90, Bre75b, SB90, Yse86b, AKP95, AF88a, AFW93, AC92, AO93, AK99, AS97b, AP86, ADG84, AR93, ASW80, AHS84, ALS90, Bab71, BR72, Bab73, BO80, BD81, BV84, BS89, BS92a, Ban92, Ban78, BBFS90, BYI86, BS92b, BH92a, BG76b, BE86, BE87, BS91, BC91, BL93, BL94, BB95, BW95, BB97, BBG98, BS99a, Ben99, BP79, Ber89a, BP92, BB82a, BB82b, BR88, BL97, BHR77, BHR78, Bri83, Cai91b, CMQ82, CMQ84, CPT98, CKL98, Cas85, Cha98, Cha99, CL94, CC95, Che97, CZ98, CEL98, Cho89, CW71, CZ99, CC85, Con84, CD85, CS98, DD95, DG98, Dob81, DDW75, DG86, DPRW93, Dry84, DGP93, Dur91, Ern96, EJ81, EW92, Fei87, FŽ87, FŽ88, FN98, FN72, FGN81, For85, FM92a, FM92b]. **element** [FHLM88, GN87, Gas96, Gir76, GR79, GP79, Gol81, GH73, GLC89, GQ98, GB86a, GB86b, GB86c, GP83, Guo88, GS93b, GC96, GS98c, HC92, HN89, Han82, Han91a, Han92, HS83, HH76, HL98, Heb88, Heu98, HMS99, Heu01, HT95, Ish79, Ish81, Ish84a, Ish84b, Ish85, Jen91, JMT97, Joh73, Joh76, JM78,

KJ90, KV85, Kik81, Kil75, KN84, LN99, Le 80b, LR89a, Les73, LZ80, Li90, Liu96, Lou79, LM98, Lub92a, MP96a, Mak92, Man81a, Man81b, Man83, Man84, MP95a, MP96b, Mel99, Mil85, Mis99, Mit80, Mit81, Miy76, Moc76, MG85, Mon92, NS95a, NS81, Nii90, Noc89, NW76, O'R84, OD95, OP96, Pav94a, Pav94b, PCV96, PB87, Per99, Pit79, Pit88, Pit92, Ran79, Ran84, RSSV97, Red88, RG88, Rei82, Ros75, Rua85, Rua88].
element [RW88, SK96, Sch94b, SW92, Sco73, Seg99, cS84, SJX97, Spa93, Ste86, SS96, Str72, SO86, SF86, Tor97, TS91, Tro90, Tsu99, VŽ95, VW92, Ver87a, Ver87b, Ver91a, Vog83a, Vog83b, Wan89, WhY88, Woh99, Won92a, Won92b, Yse86a, Yse90, Žen89, Žen90, Žen95, Zer94, Zha89, Zha92b, Zha95, Zlá68, Zlá69, Zlá70, de 95, FM92a, FM92b].
element-capacitance [Dry84].
Elementare [Kan73].
elementarsymmetrischen [Str73a].
elementary [Bau65a, RS86, Spe71, Str73a, Ves79b, Wil84, Kan73].
Elemente [Sch78b, Nat75b].
Elementen [Wei80].
Elements [MT90, Ste90a, AABM98, AM94a, AT79, AAG79, Arn81, Att77, BKP79, BD98, Ber73, BD82, BDT88, BLR86, BN84, Bra94, Bre96, ByS99, BDM85, BDDF87, BCS96, Cha97, CL75, Cha79, Dör90, Dur90, DMR91, FHLM88, HS97, HJR88b, HH99, Höh82, Koh87, Koh88, LLS95, LPDT70, LL85, Lin62, Man74, Man81b, MQ89, Mor89, Néd80, Néd82, Néd86, Osw92, PS96b, Prö91, QLV91, Sar97, Sch78b, Ste88, Won93, ŽV95, Néd82, AABM98, AAG79, Att77, Bre75b, CL75, Cha79, LL85, Tor97, Nat75b, Wei80].
eleven [Cur70, HP76a].
Elimination [Bau65b, Cry68, DK77, Sau78, Str69, vV77, Bus71, Huc98, Läu61, Sti60, Stu85a, Stu85b, Wri94, Läu61].
ellipsoidal [GK72].
ellipsoids [KP81].
Elliptic [BL90, Smi91, TW68, Woh63, Ain98, AK99, AW85, Auz87, Axe77, BS99a, BD96, BDM85, BDDF87, BS85, Bul65a, Bul65b, Bul69a, Bul69b, CHL85, Car79, Cha73b, CL75, Cha99, CZ98, CP94b, Cho89, CC85, CM92, Dou61, Dou62b, Dry84, DSW96, ELV91, FGM67, FŽ87, FŽ88, FG77, FGN81, Geo79, GP65, Gun64b, Guo88, Guo99, Hac79, Had69b, Han97, Hei89a, HvdR63, HMW86, Hwa99, JBC92, JN94, KM67, Kea68, KJ90, KS92, KW96, KP95, KKL97, Koc95, Kor94, Kor96, Kos85, LN99, LMW84, LA97, Lub92a, MP95a, MT78, Mat93a, Mat93b, McA68, Mid75, Mil85, MF64, Moc75, MH72, Mor78, Mor99, Noc88, NW76, Pao95, Par61, Par65b, PCV96, Pfl98, Reu88a, Ros75, SP72, Sar97, Sch95a, Sch91, Sch71b, Sch72b, SW98, SW99a, Sta77a].
elliptic [Sta97, Sti88, Tho71, VW92, Wan89, WhY88, Wit78b, YN93, Žen89, Žen90].
elliptic-hyperbolic [FG77].
elliptiques [Cha73b, CL75, SP72].
elliptischen [Hei89a, Wit78b].
elliptischer [Kos85, Woh63].
embedded [CH89].
embedding [GI99].
emboî [CR89, Rom85].
Empirical [Neu63].
empirische [Neu63].
enclosing [GKR86, Sch78b].
Enclosure [Leh66, Sch68b, Wet60, Wer69, Hof75].
end [CR80].
endlich [KS73].
endlich-dimensionalen [KS73].
endlichen [FN68, Kup71, WL79, Wag80].
endlicher [GL65, Neu60, Neu61].
Endomorphism [KS73].
Energy [LG76a, LG76b, Mar84, BB95, BB97, CE92, Lus96].
Enlargement [Tsu88].
Enlarging [Lor80].
ENO [AS97a, IS96].
ENO-schemes [IS96].
ensemble [Att68].
ensembles [Gas65].
entier [SA84].
entire [Wil87].
entrant [Ste93a].
Entropy [Son92, Yse99a, BLLN95, CL96a, DLD94, DM96].
entry [Cuy83a].
Entrywise [O'C93].
Entwicklung [Mar73].
Entwicklungen [Wol78a, Gri75a].
Entwurf [Lod70].
epsilon [Wyn64].
equal [Peh88].
Equality [Tay69a].
Equally [Dag90, Sal63, Cul86, DP88a, Pec74].
Equally-weighted [Sal63].
Equation

[AU61, Alb61a, Bra65, Due59, Jou71a, ML90, MRMW90, SS66, Sch61a, SG62a, SG62b, SEG62, Uhl62, Wal67, vPS90, AGS98, ADK91, Akr92, AD93, BB95, BBG98, Ben64, Bra81a, BH62, CGH93, CM62, CM70, CE92, Cry67, DN89, DG98, Des70, DH80, Dob81, Dör96, EFM89, GA92, GLM89, GK94, GK85, GK66, Gre80, Grü97, yGL93, Gut81, Had71, Hai77, Hem98, Hof67, Hor75, HP81, HP83, Hüb82, JK91b, JY93, Jou71b, Kes84, KV85, KW99, KS71, Kot99, KP90, Kre68, KS83, KS93, Lin93, LB97, Lou79, Lu97, LM98, MQ81, MW99, Mel95, MS72, MSF91, Mey78, MC88a, MC88b, Mor62, Néd82, NS81, NV80a, O'R87, OP88, OSS90, PB87, Per66, RS70, Rat93, Raz79, Rei89a, RW85a, Sch64a, Seg99, Shi78, Spe75]. **equation** [Ste72, Sto67, Sun95, gS97, gS98b, Sym66, Tha76, TL91, TV98, Ver98b, WL79, Wag83b, Woo68, Yan94, ZG78, Zie85, dFSS97, de 95, Hai77, Néd82, RW85a, Wag76, Wag80]. **Equations** [AU61, Auc92, Bar69, Bau65b, Bit64, Boh69, Bol84, Bör90, BMPW66, Bra60, Bra61, Cai91a, CKP95, JP90, Kes79, Kin73, Kre63, Las92, Lig90, MPW66, MW67, Nab92, Nat70, OP64, Red67, Rei90, Rut60, SV93, Ste90a, Sto70, Tan71, Tör63, Wal68, Woź77a, AGS87, AKK74, AGP92, AM94a, ACM99, Alb60, Alb61b, AU62, Alb78, AH72, Ale86, AV86, AYB98, AM94b, AG88, And69, AS87, Ans63, Ant72, Arn79, AW85, ASW93, Aro63a, Aro63b, Atk67, Atk72, Atk73, Auz87, AF89, Axe77, BD83, BDS80, BJ85a, BJ86, Ban87, Ban78, BBFS90, BB92, Bel83, BZ85, BJZ88, BMM87, BS95, BB82a, BB82b, BSV68, BL86b, BD99, Bra82, Bri83, BF66b, Bru78, BN81, BM84, BS66b, BRS71, Bus77, BEHH75, CG88a, CGPM98, Cam70, Cam93]. **equations** [CMQ84, Car71, CKL98, Cas78, CP76, Cha74, CG88b, CS90, CS92, Cha92, CD73, CS76, CT91, CC95, CŠ79, CMR93, Cho89, Chr70a, Chr70b, CZ99, CC85, CFH68, CW79a, CG67, Coo71, CW78, CS88, CM92, CL96b, Cro80, Cry73, DJ69, Del73, DD98, DC74, Deu74, DE94, DE96, DLO$^+$77, Dix82, DMJ86, Dou61, Dou62b, DJ62, DD73a, DPRW93, Egg84, Egg86, Egg88, ES90, ENV85, EMN88, Ein71, ESS92, Elf80, EP95, Els84a, EG95, EM91, EK99, EGH99, Fae98, FGM67, FF94, FG73, FB89, FR84, FDD92, FL91, Fun88, Gar96, Gau61, Gau73, Gir76, GR79, GK85, GF73, GHT94, Gor70, GM68, GP78, GLC89, GP65, GHR65, GeN80a, GOS99, Gri85, Gue94, GQ98, Gug97, GH99, Gun64b, GP83, Guo88, GNV86]. **equations** [Gut89b, Hac77b, Hac77a, Hac79, Hac89, Had80, Had69b, HV64, Hai79, Hai80, Hai81, HL88, HR95, HS80, Han94, Han88, Han91b, HP75, He94, HL98, HJ90, Hel87, Her71, HL99, Hoc79, Hoc81, Höh82, Hop81, Hop86, HI71, HL60, Hwa99, iS91, Ise84, Ish84b, IK89, Jac79, Jac82, Jac84, JLR70, JM87, Jay93, JS95, Jeg68, Jer89, JS86, Jov89, Kac76, Kad67, KR84, KR79, KR97, Kau89, KM67, Kea68, Kem72, KJ90, KP95, KKL97, Kin72, Koc95, Kos86, KMS99, Koß81, Kot98, KS91, Kre59, Kre90, Ksc68, KM98, LG76a, LG76b, LS66, LSW85, Lan77, Lau98, LMW84, Le 80a, Le 80b, LP78, Lee61, Leh67, Lei71, Les73, LL80, Lin75, LS95, Liu95, LA97, Lub82, Lub91, Lub92b, LS92, Lub94, LO98, Lyc72, LRT64, LT68, Man85, Man78a]. **equations** [Man81b, MS96, Mar75, MPP99, Mar70b, Mat76, McA68, McC75, McL94, MS78, Mer67, Mey70, Mey83, MM74, Mil81, MF64, Mit80, Mit81, Miy76, MS95a, Mon92, Moo68, Müh85, Mül79a, Mül80, Nak85, NC93, OP81, OW69, Pal99, Pao85, Pao95, Pao98, Par59, Par61, Par62a, Par62b, Par65b, Per67, PS75, PS96a, Pfl98, Pir82, Pla96, Por78, PQS98, PR86, PS92b, QYK99, QLV91, Rak73, RS96, Rei82, RRS89, Reu95, Rhe88, Ric78, Ris74, RW65, RS68, Roa71, RF94, Roc88, Ros75, RS88, SSVH87, Sar89, Sau84, Saw82, Sch79a, Sch85b, Sch94a, SD67, Sch87a, Sch95a, Sch91, Sch79b, Sch61d, Sch61e, ST73,

STR76, Sep72, Sey79b, Sey79a, Sey83, Sha67, She92, Shi78, SK73, Sik84, Slo81, SW98, SW99a, SS98, SG78, Spe78]. **equations** [Spe79, Squ69, Sre69, Sre71, Sta70, Sta80, Ste61, Ste63, Ste65, Ste93a, Ste73a, SWB91, Sül88, SSBB88, Tan74, Tan92, TT87, Tho90, Tho75, TW68, TW83, Tor91, TS91, Tro71, Tsu88, TK64, Tur78, Ura70, Van79, Ver87a, Ver89, Ver91a, Ver91b, Ver98a, Ver88, Ver92, Voi74, Voi79, VI86, Wag83a, Wah75b, Web94, WA72, WhY88, Wer68, Wer82, WH86, Wet60, Wit89, Wit90, Wol78b, Wri92, fX96, Yam75, Yam76, YN93, Zad76, Žen90, Zen86, Zen97, Zha89, Zha93, dHW73, dHW75, tMS86, vD73, vdHtR81, vPS96, vW77b, AG88, Cro80, Gue94, JLR70, Kes79, Le 80a, Ama72, Dre77, Ess77, För67, GS74, Gek72, Gri70a, Kil78, Mül79b, Nat69a, Nat75a, NW73, Web79, vW77a]. **Equiconvergence** [AJS90]. **equidistant** [MS92, Rei84a, Rei84b, RS86, Rei89b, Sch80a]. **Equilibration** [vdS69, vdS70a]. **Equilibria** [HISS90, Rap84]. **Equilibrium** [AT79, JP90, HH76, JM78, LV84]. **Equivalence** [Ans66, BY93, Eis67a, Hai86, SSS86]. **equivalent** [Lub88c]. **Ergänzungen** [Häm65]. **Ergodic** [BW72a, BW72b]. **Ermakov** [BMP81]. **Ermittlung** [Cro76, Wei80, Gai72]. **Errata** [BW72b, SSV76a]. **Erratum** [BV88, Bea86a, Ber89c, CS92, Chr70a, DKS90a, Heu01, JN82a, Koh88, Li87, Lub92b, MC88a, SV76a, SV77, Yse86a]. **erreur** [Att77, Che79, Gou77, LA88, LA89, Tor97]. **Erreurs** [LV74a, SA84]. **Error** [Alo96, AYB98, AL85, Auc92, Axe77, Bab71, BD81, Bar91a, BP79, Ber59b, Ber60, Bla72, Boh69, BS60, BS63, Bra61, BS81, BF99, Bre70, BHR77, BHR78, Bri83, CK76, Coo71, DP72, Due59, FMMS99, Fie78, Hae63, HR87, Häm66, HS79, Hel87, Hig87, JO74, Kam71, LW82, Lan66, Leh60, Leh61, Ley90, MvdS76, Nak85, NW76, Not93a, O'C93, OP64, Ort63, PK64, PCV96, PZ99, Por78, RS70, Rei84b, RJ72, Sha68, Slo76, Spa94, Spe78, Spe79, Ste66b, Ste95, Tsa79, VV88, Wah75b, Wil60, Yam80, Yam82, Yam86a, dBP77, vS77, AABM98, AF88a, AFW93, AC92, AO93, Ain96, Ain98, And88, Arn84, AM88, AF89, BKP79, Bak70, BJ85b, BJ89, Ban87, BS92b, BM96, BH92a, BG76b, BL93, BL94, BB95, Ber73, Ber59a]. **error** [BB82a, BB82b, BLR86, Bra94, Bra73, Bra85, BEN93, CD98, Cha61, Cha79, CL94, Che79, Cho89, CW78, CS98, DS91, Die96, Din83, DMR91, Dur91, Egg92, Eng77, Fae98, Fet87, FJ72, För67, For72, FM92b, Gao89, GN87, GS74, Gek78, GW95a, GF73, Gou77, Gra68, GK72, GB86a, GB86b, Gut72, HL84, HL97, Hai99, HW84, HR94, HP66, Hof67, HMSW99, JT76, Kac84, Kan73, Kin74, Koh87, Koh88, Kos85, Kra63, KT59, Lam70, LW99, LA88, LA89, LdD93, Mei67, MD77, Mer92, Mie79, Mir71, Moc75, MMS92, Nii90, NS95b, NS96, Noc88, Not90, Not93b, Nov86, O'C96, Oli67, Oli68a, PW93, PV72, PS96b, PP80, Pot82, Rei65, Rei84a, Rok72, SA84, Sch81a, Sch61d, Sch61e, Sch84, Sch96, Seg99, SW96, She92, She94, Sie96]. **error** [Ske86, SS80, Spi71, Spi76, Sre69, Sre71, Ste66a, Ste65, Str73b, Stu85a, Stu85b, SP94, SW80, TW83, Tom84, Tor97, Ver89, Ver91b, Ver98a, Ver98b, VH93, Vog83a, Vui90, Wal97, Wan89, Weg84, Wid77, Woh99, Woź78, Wyn59c, Yam86b, Žit89, Akr84, AB85, Alb61a, Alb62, Att77, Leh67, Mar75, Red77, Ric74b, Sau78, Sch82, Sch79a, SD67, Sch61b]. **Error-bounds** [Bab71]. **Errors** [Bra65, CI94, Ehr69, LV74a, Not93c, Cha71, FR84, Häm65, MSF91, Nev77, PB81, PR94, RW85b, SA84, Sha84, gS99, Yam75, Yam76, Zad76, Pot78]. **Ersatzkernmethode** [Sch79a]. **erste** [Spr76]. **ersten** [Lan87]. **erster** [Het75, Sch61d, Sch61e]. **Erweiterung** [NW74]. **erzwungene** [Wer69]. **espace**

[DRW81, Lau67, LH66, Rob71]. **espaces** [SA84]. **essentially** [Kir86]. **estimate** [Auz88, Ber59a, Bra85, CGK92, Fet87, Moc75, RS70, Rei84a, SW96, Ske86, Vui90, SD67]. **Estimates** [Auc92, Gau75a, Mar87, Par88, SB90, Akr84, AB85, AP85, AP86, Axe77, BKP79, BD81, Ban87, BP79, Ber73, Ber97, BS81, BHR77, BHR78, BNvW89, CD98, Cas85, Cho89, CDR98, CS88, DA86, Dur91, ES90, FMMS99, FJ72, FM92b, GN87, Gek78, GF73, Hel87, HP66, Koh87, Koh88, Kos85, LW99, Liu96, LA88, LA89, MvdS76, Mer92, Nak85, Nii90, NS95b, NS96, Noc88, PCV96, Por78, Pot78, Rei84b, RJ72, Sch82, Sch79a, Sch81a, SD67, She92, She94, SS80, Spa94, Spe78, Spe79, Spi71, Stu85a, TW83, Tom84, VV88, Vog83a, Wah75b, Wan89, Weg84, vS77, SA84]. **Estimateur** [AABM98]. **Estimating** [Cha71, CW79b, HP76b, Hig92, Dum98, Man78b, Mei66, OW69]. **Estimation** [BO90, Gou77, Kat60, KP91, AF88a, AFW93, AO93, Ain98, BB82a, BB82b, Blu61, Bra94, Bra73, Gao89, HW84, Kim96, Kuh93, Mar75, MD77, MMS92, Oli68a, Red77, Sch94a, Sch84, Sch96, Seg99, Zad76, Žit89, Gou77]. **Estimations** [LA88, LA89, SA84, FM92b, GS74]. **estimator** [AABM98, DR92, Sie96, Woh99]. **estimators** [AC92, Ain96, Alo96, DMR91, Ver89, Ver91b, Ver98a, Ver98b]. **Étude** [Car72a, El 84, LV74a, Pau81a]. **Études** [Bre71]. **Euclidean** [BH60b]. **Euler** [Mar65, EV97, EM91, FF87, GL86, Hor75, LM70, Lyn85, Mar65, ML98, Nab92, Nie80, Pal99, PS96a, SS98]. **Euler-Knopp** [GL86]. **Eulerian** [GT78]. **evaluated** [ELR92]. **Evaluating** [Mat92, EP75, EP76, EV97, Hal60a, Hal60b]. **Evaluation** [LV75, Ziv83, Brä81b, CR74, CP70, DP85, Eve64, Hag87, Hen75, Hun72, Hun73, Kut75, MM67, Mon84, Mon87, PE72, Pag81, Pat76, Skr98, Ste66b, Wil59a, Wil59b, LV75, Rei75, Att77]. **evaluations** [Cur70]. **Evans** [Ale82b, Ale82b]. **even** [Sar88, dV93]. **ever** [Nie95]. **evolution** [BDS80, BLR89, Hel87, RW85a, vW77b, vW77a, MS95b]. **Evolution-Galerkin** [MS95b]. **evolutionary** [Cro80, Dzi91, SSVH87]. **Evolutionsgleichungen** [vW77b, vW77a]. **Exact** [All73, Dix82, Gün94, Spr80, AB74, DA71, Gue86, Hav84, MS94, Sar96, Wer78]. **Exactness** [Wil64, DMR91, DR92]. **exakter** [Wer78]. **example** [HS91]. **examples** [MP95b]. **Exclusion** [BF60, Ale86]. **Existence** [BS92b, BS97a, Kar68, Le 82, BLW74, HL60, Kuh93, Pau77, Utr85, Zhe89, För67, Pet70, Spr76]. **Existenz** [Zhe89, Pau77, Pet70, Spr76]. **Existenzaussagen** [För67]. **existing** [Wyn60]. **Exit** [För93]. **exp** [Luk61]. **Expanding** [HB59]. **expansion** [BLR86, CL94, EV97, Fra62b, LM70, Lyn85, ML98, SP94, VH93, Wes75]. **expansions** [AS97a, AF89, BD77, BG76a, BK98, CS98, Dix82, Fra62a, Fra63, HL84, Hoc79, Hof67, Lem98, LdD93, Ném65, RDM62, Ste65, Wal91, Wan89, Wol78a, Gri75a]. **experimental** [Pau81a]. **expérimentation** [Pau81a]. **experiments** [Gre62, Ish85]. **Explicit** [Jou71b, Jou71a, Moc76, vdH72, ACM99, ASW93, Cro80, Gun64a, Hai80, Ish84a, JN81, JN82a, Lee61, Len89, NV96, Rei97, VV88, Woo68]. **explicit-implicit** [Cro80]. **explicite** [Cro80]. **Exponent** [SS66, Sto67, Wag76, WL79, Wag80]. **Exponenten** [SS66, Sch61a, SEG62, Sto67, Wag76, WL79, Wag80]. **Exponential** [HMS99, KK97, CRZ99, FL70, GS95a, Mat92, Nii85, Nør75, Ren80, SU89, Sch82, Sug97]. **exponentially** [Cas81b, GS93b]. **exponentials** [Ise84]. **Exponentialsummen** [Sch82]. **Exponents** [Sch61a, SEG62, Lew71]. **Extended** [Wol78b, AS83, And71, BL74, Cas80b, CMO91, Shi82]. **Extending** [Dek71]. **Extension** [Rob72, BR91, Bul69a, Gas71b, NW74, Oli68a, PSS84, Tim65, Rut63a].

extensions [DDM92, Pat93, Sal61, SZ61, Ver88]. **exterior** [BD98, CHL85, Ern96, GH92, Gol81, HP83, KS83, Mas87, Sym67]. **Extra** [Had69a]. **Extraneous** [VG88]. **Extrapolated** [EL88, Had71, Mis84, SB83]. **Extrapolation** [BR88, BRZRS98, BEHH75, GM92, Hac77b, Hac77a, HL88, LL80, Sar89, Sch75b, Sid90, Tur78, BLR86, Bre72, Bre80, BS66a, BS66b, BS67, Cas82, Deu83, DHZ87, FJ75, Föß89, HO90a, Hoc81, JS95, Kin74, Lub89a, Lun85, MY79, Oli71, Qun91, Sal71, Sid82, Str73b, Wal89, Wer68, Wuy71]. **Extrema** [Wet70]. **Extremal** [Col61, Bau76, Bro65b, Har78, Men88, Opf79]. **Extremaleigenschaft** [Bau76]. **Extremalprinzipien** [Col61]. **Extremalsignaturen** [Bro65b]. **extreme** [Ste75b, Whi77]. **extreme-discrepancy** [Whi77].

F. [Rut69]. **Faber** [Eie89, ES88, SV93]. **face** [Per99]. **face-edge** [Per99]. **Factor** [Aum63, Din83, NF69, Wyn63, You71]. **factoring** [HS69, Ste69b, Ste70, Ste73b]. **Factorization** [Bea79, Bea86a, ER74, Fia90, SS79, BBdH86, Bra92, Cas96, Guo99, Heg91, LE81, Mag92, VC81, Wer72, Kar61]. **factorizations** [KM91, LA97, MS98, Mes95]. **factors** [Ben65, DV99, Gau72, Gut87, LTT92, Wyn59a, Wyn59b]. **Fairly** [Zur64]. **Faktorenzerlegung** [Kar61]. **faktorisierung** [Wer72]. **Falk** [Dur91]. **Fall** [Mül68]. **falsi** [PP81]. **Familie** [Eng77]. **Families** [Ste90a, VL73, BL70b, BDM85, Med73, MP99]. **family** [ADG84, Buc64, DML83, Eng77, FP93, FHLM88, GMF99, HP77, JK91b, Mor89, Néd86, Red77, Ste88]. **Fan** [Ste67]. **far** [Cro78]. **far-reaching** [Cro78]. **Fast** [BL80, CKL98, CGC95, GO94a, HJR88a, Mat96, Rat82, Rei90, Shi79, Sun98, Swe84, Swe91, BL92, Die87, Gir89, GK85, Gut81, Hac79, HN89, Hag87, Heg94, KS98, KC93, LSW85, PE97, Qia88, Web81]. **faster** [CW77]. **Feedback** [BV84, Tau76]. **Fehler** [Uhl62]. **Fehlerabschätzung** [Ber59a, Ber59b, Ber60, BS60, Bra61, Bra73, Bra85, Due59, Leh60, Rei65, Ric74b, Sch61e, Mar75, Red77, Sch61d]. **Fehlerabschätzungen** [Boh69, För67, For72, GS74, Kos85, Leh61, Akr84, AB85, Alb61a, Sch82, Sch79a, SD67]. **Fehleranalyse** [Sau78]. **Fehlerdarstellung** [Kan73]. **Fehlerfortpflanzung** [Sch61b]. **Fehlerfunktion** [Lam70]. **fehlerhaften** [Bra65]. **Fehlerintegrals** [PK64]. **Fehlerschranken** [Nic66b, Alb62, Eng77, Leh67, Mer92]. **Fehlerschranken-Arithmetik** [Nic66b]. **FEM** [CFS97, CD98, GH92, SSS99]. **Fer** [Cas96]. **Field** [Sta97, Bau62, DGL99, Eck76, KS99, KO98, LM75, Zen68]. **Field-of-values** [Sta97, KS99]. **Fields** [Bau68, Hen62, Sto70, Kem68, NS64, Vas88]. **fifth** [Str67]. **Fike** [wEC86]. **filtered** [LS95]. **filtering** [CRZ99, WW97, Wag97a, Wag97b]. **filters** [GP78]. **final** [JHW77]. **find** [YK88]. **Finding** [MN68, BWW73, CR93, Cro76, DL97, DD78, HP77, HM89, KvdD77, Lar81, PCT95, Sou69, Sre71, Yam86b]. **finis** [AABM98, AAG79, Att77, Bre75b, Con84, LL85, Néd82, Tor97, Tro90]. **Finite** [Akr92, BO90, BS92b, BE86, BS91, BC91, BL93, BB97, BBG98, BS99a, Bia90, Bre75b, BRR80, BRR81a, BRR81b, CK82, CZ98, Cho89, DGP93, FŽ87, FN98, FN68, GL65, GS93b, Han92, Höh82, HMW86, KM67, KKL97, KMS99, KS73, LR89a, Les73, Man81a, MT90, Mis99, Neu60, Ran84, Rau86, Sco73, Seo95, SB90, Ste90a, Ver87a, Ver91a, Yse86b, Žen89, AABM98, AF88a, AFW93, AC92, AK99, AM94a, Ale86, AT79, AP86, AAG79, Arn81, ADG84, Aro63a, Aro63b, AR93, Att77, ASW80, AHS84, ALS90, Bab71, BR72, Bab73, BKP79, BO80, BD81, BV84, BS89, BS92a, BV87, BV88, Ban92, Ban78, BBFS90, BD98, BYI86, BH92a, BG76b, BE87, BL94, BB95, BW95,

Ben99, BP79, Ber73, Ber89a, BP92, BDT88, BB82a, BB82b]. **finite** [BLR86, BR88, BL97, BN84, BH62, Bra66, Bra94, BHR77, BHR78, BDM85, BDDF87, Bri83, BCS96, BEN93, Cai91b, Can71, CMQ82, CMQ84, CPT98, Cas85, Cha98, CGH93, Cha99, CT93, CL94, CC95, Che97, CEL98, CW71, CZ99, CC85, Con84, CD85, Cry73, DD95, Dob81, Dob89, DDW75, DG86, DPRW93, Dry84, Dur90, DMR91, Eis67a, EV97, Ern96, EJ81, EW92, EGH99, Fei87, FŽ88, FN72, FGN81, Föß89, FHLM88, FGM87, GN87, Gas96, Gir76, GR79, GP79, GW95a, Gol81, GLC89, GQ98, GB86a, GB86b, GB86c, GJ89, GP83, Guo88, GC96, GS98c, HC92, HS97, HH76, HL98, Hel68, HJR88b, HH99, HT95, Ish79, Ish81, Ish84a, Ish84b, Ish85, IJ87, JBC92, Jam70, Jen91, JMT97, Joh73, Joh76, JM78, Jov89, Kel65, KJ90]. **finite** [Kik81, Kil75, Koh87, Koh88, KN84, KNR95, Kup71, Kut75, Kut71, LLS95, LN99, LL85, Le 80b, Le 82, Li90, Liu96, Lou79, LM98, Lub92a, Mak92, Man74, Man81b, Man83, Man84, MQ89, MP95a, Mey79, Mil72, Mil85, Mit80, Mit81, Miy76, Moc76, MG85, ML98, Mon92, Mor89, NS95a, Nat75b, Néd80, Néd82, Néd86, NS81, Neu61, Nii90, Noc89, NW76, O'R84, OD95, Opf82, OSS90, OP96, Pag81, Pao85, Pao98, Par62b, Pat76, Pav94a, Pav94b, PCV96, PB87, PS96a, Per99, Pit79, Pit88, Pit92, PS96b, Prö91, QLV91, Ran79, RSSV97, Red88, RG88, Rei82, Roh98, Rua85, Rua88, Sah85, Seg99, Sep72, Ser99a, SJX97, Soc88, Söd86, SS98, Spi71, SV79, Ste86, Ste88, SS96, Ste61, Str72, SO86, SF86, Tau76, Tor97]. **finite** [TS91, Tro90, Tsu99, VŽ95, VW92, VV98, Ver87b, Vog83a, Vog83b, WL79, Wag80, Wag83b, Wan89, Wei80, Woh99, Won92a, Won92b, Won93, Yse86a, Yse90, Žen90, ŽV95, Žen95, Zer94, Zha89, Zha92b, Zha95, Zlá68, Zlá69, Zlá70, de 95, Koß81]. **finite-difference** [Jam70, Jov89, Kut71, OSS90, Par62b, Spi71, Ste61]. **Finite-Dimensional** [KS73, BRR80, BRR81a, Rau86, Seo95, Ale86, Söd86, SV79]. **finite-element** [Ern96, Joh73, Tro90]. **Finite-part** [Bia90, EV97, Kut75, ML98, Pag81]. **finiten** [Wei80]. **Finiter** [Nat75b]. **First** [vPS90, AU62, BL92, Bra66, Bru78, BEHH75, DMJ86, Egg86, EG95, FGN81, GP78, GHR65, HP75, Het75, HvdR63, KS93, Lan87, LP78, MGR87, Moc76, Mor99, Sch61d, Sch61e, Spr76, WA72, dHW73, vPS96, Ano99]. **first-order** [FGN81, MGR87, Sch61d, Sch61e]. **fit** [SW93]. **fitted** [Cas81b, GS93b]. **Fitting** [ST91, GA87, Spä86]. **five** [BP85, OO98]. **Fixed** [DD98, Ale71, BM87, GK83, HL84, Jer89, Kal74, Mil81, MO91, SD67, Sch78b, SV79, VG88]. **fixed-point** [BM87]. **fixed-points** [Sch78b]. **fixed-stepsize** [HL84]. **Fixpunktsatz** [SD67]. **Fixpunktsatzes** [Ale71]. **Fixpunktverfahren** [Sch78b]. **flat** [BDT88]. **flexion** [DN86]. **Floating** [Dek71, Pic72, Wil60]. **Floating-Point** [Dek71, Pic72, Wil60]. **Flottante** [Pic72]. **flow** [Agu89, Alt80, BN90, BS92b, BL93, BL94, Ber89a, BH71a, Cha98, DD95, Eng96, Fei87, GW94, GW95a, Man84, MP92, Mor62, NS95a, SS96, VV98, WKW97]. **flow-theory** [Agu89]. **flows** [ABF99, Dob89, Heb88, LR89a, NV96]. **fluid** [BS92b, Dör90, Gas96, NS95a]. **fluides** [AG88]. **fluids** [AG88, Yse97b, Yse99a]. **Flux** [SB90, PLCC92]. **Fock** [FDD92]. **Fokker** [DLD94, Lem98]. **fold** [BCD86]. **following** [GI99, MS85]. **Fonctions** [Att68, Aus71, Dia80]. **Forced** [Wer69, Tau76, vD73]. **Form** [Lin76, MW68b, MW68d, Axe77, Bre75a, Gri85, Ric74a, Gri85]. **Formal** [dJ77, Tho90, VB92a]. **Forme** [Bre75a]. **formelles** [Tho90]. **Formeln** [Wyn60]. **Formes** [HW87, Tao84]. **Forms** [Ric65, HW87, Lin76, MF64, Tao84].

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Fie66, Gre75, Gri85, HM83, Kar68, Kor94, Kor96, MO64, Mit78, Noc89, PSS90, RN98, Sah85, Sch66b, She77, Spa94, Küp78, Red77]. **inequality** [Bau61, Bau65a, Bea86b, BH74, Dun88, Fet87, HM86, Loi67, Mar62, Sch60, Vui90]. **Inequation** [Mei63]. **inertia** [CD79, Sch65]. **Inexact** [GO88, Bör89, MS94]. **inexactQP** [Kan98]. **inexactQP-based** [Kan98]. **inf** [Dur91]. **inf-sup** [Dur91]. **infeasible** [SW99b]. **infeasible-interior-point** [SW99b]. **Infinite** [BF70, Cle71, DG98, Fis93, Ghi68, Han82, IK89, Pat76, SVN76, Sim78, Tha76, Zhe89]. **infinity** [Nev77]. **Inflections** [Sak97]. **influence** [Ain96]. **information** [BLLN95]. **infra** [Lyn63]. **infra-max** [Lyn63]. **inhomogene** [Leh60, Leh61]. **Inhomogeneous** [Leh60, Leh61, Gek78, GP83]. **Initial** [AU61, Ans69, Sau63, Wat68, vFvH73, AU62, Ans64, Ans67, Arn84, BS96, BHK94, BEHH75, Cas81a, CEL98, DLO$^+$77, DH80, Dut99, Gek74, GK80, GeN80a, GN66, Hac77b, Hel87, Hof75, Hul71, JN81, JN82a, JN82b, Kra86, Kre59, Lub94, Mar75, Mül82b, Nev77, Spi66, Spi76, Spi83, Sta77b, Ste63, vdGK86]. **Initial-Boundary** [vFvH73, BS96, DH80, GK80, Lub94]. **initial-value** [Ans67, BHK94, Spi66]. **instabilities** [MO78]. **Instability** [Ste68, ELP90, He97, Wyn59d]. **integer** [Coh59, EFP98, Sch95a]. **integers** [BB62]. **Integral** [Ben64, Bra60, Bra61, BRS71, Rei90, Wal97, vPS90, Ama72, AS87, Ant72, Atk67, Atk72, Atk73, BJ85a, BJ86, BH65, BNZ72b, BNZ72a, Bru78, BN81, Cha74, CS90, CS92, Cha92, Che79, CGC95, Coh59, CS88, Cry67, DJ69, DMJ86, Egg84, Egg86, Egg88, ES90, EP95, Els84a, EG95, Fae98, GK85, GK66, GP78, GOS99, Gut81, HS80, HP75, Her71, Heu98, Heu01, Hoc79, Hoc81, HP81, HP83, Jeg68, JS86, Kac76, Kad67, Kau89, Kel65, Kil78, KP90, KS83, Kre90, KS93, Ksc68, LSW85, Lau98, LP78, LL80, LS92, Lub94, Lyn68, Lyn85, LT68, Man85, Mar70b, Mid75, PR86, PS92b, RS70, Rak73, Ric78, RW65, RS68, Roa71, RS88, Sch79a, Sch85b, Sch91, SK73, Slo81, SW98, Spe75, Spe78, Spe79, Sta70, Ste72, Sym66]. **integral** [TIK67, Ver92, Wal89, WhY88, Won82, dHW73, dHW75, de 95, vdHtR81, vPS96]. **integral-interpolation** [Kac76]. **intégrale** [Che79]. **Integralgleichungen** [Bra60, Jeg68, Kad67, Ama72, Ant72, Bra61, Kil78, Mar70b, Sch79a]. **Integrals** [Bia90, PK64, AS97b, Bul65a, Bul65b, Bul67, Bul69a, Bul69b, Car79, CR74, Cle66, CP70, CM89, DP85, DD99, Die96, ESS92, EP75, EP76, EV97, Hal60a, Hal60b, HvdR63, Hun72, Hun73, Jel73, Klo99, Kut75, LM69, Mon84, Mon87, ML98, MH72, Mor78, Mor99, Ném65, Nin66, PE72, Pag81, Pat76, RvdS90, SW92, Ste66b, VC92a, Wes75]. **integrand** [VH93]. **Integrands** [Dag90, DP88a, LR98, Pet93]. **integrate** [FP93]. **Integration** [AS97b, BO90, Bul64, Dag90, For78, GT78, Jel73, Kre72b, Mar65, Pau77, Rut60, Sch63, Sch70c, BLW74, Bet70, BMP81, BP98, Cas78, Cas80b, Cas81b, Cas81a, Cas83, CC60, DP88a, DJ69, Des70, ESS92, FF87, Fri70, Gao89, Gau61, GMF99, GG71, GHR65, Han64, Hsu61, Hsu62, Hun73, Imh63, Jet76, Jet84, JN94, Kut75, LG76a, LG76b, LV97, McL94, MS67, MY79, MP92, MC88a, MC88b, Nev77, NS95b, NS96, NR96, Oga89, Oli71, Pal76, SK96, Sch80a, Sim78, SS78, SS80, Smi65, Str66, Str67, Str68, Tsu73, Ura70, VŽ95, WA72, Wes75, Zad76, dFSS97, Bul64, Jet84, Mar65, Sch63, Sch70c, WL79]. **Integrationsformeln** [Pal76]. **integrator** [Cas96]. **integrators** [CM95, HL97, Sto97]. **integro** [Ein71, Han94, Lin75, Lub82, Mat76, RW85a, Sch87a, Tan92, RW85a]. **integro-differential** [Ein71, Han94, Lin75, Lub82, Mat76, RW85a, Sch87a, Tan92].

intégro-différentielle [RW85a]. **integrodifferential** [DJ62, NW73, Ver88]. **Integrodifferentialgleichungen** [NW73]. **intense** [LMGR94]. **interest** [LR89c]. **interface** [CZ98, Han82, HS83, KS98, Mey70]. **Interior** [Ber97, Liu96, BM96, Har78, HP83, Pet93, SW99b, TW68]. **intermediate** [Gue86, Wei63]. **Internal** [CC91]. **International** [Ano83b, Ano84]. **interpolant** [dV93]. **interpolants** [AL93, Ber89b, Ber89c, GM83, Gün94, Lub89b, Rei84a, Rei84b, RS86]. **interpolated** [Ber73]. **interpolating** [AL68, Bau76, vG72, Hen79, LA88, LA89]. **Interpolation** [BG76a, Boj93, BS70, Bra74, Dag90, Dör66, DM90, EH70, For78, Kre71, LL90, NR68, Nit69b, NSSS83, Sch61b, Sto61, Tis72, Web91, WB69, Wer72, Wyn60, Žen70, Zur64, Bak70, BSV68, BMP81, BH71b, CMQ82, Cha61, Che79, CD90, CD91, Cla76, Cla78, Cle92, CS66, CS68, CMO91, DP88a, DGM88, DP82, Din83, EM87, Egg86, El 79, ES73, GM82, GH73, Gou77, GMH81, Her70, Her71, JS91, Kac76, KC93, Kre72a, LW99, MS92, Müh79, Müh81, MS99, NR95, OP81, Pow94, RS91, RS95, RO70, Row71, SL86, SA84, SKL88, Sau97, SH95, Str73a, Tsa77, Tsu75, VB92a, Wal97, Wuy73, ŽV95, Arn80, BS70, EH70, Kan73, Nit69a, Sch61b, Tis72, Zur64, Rei89b, Sch73a, Wer72]. **Interpolations** [Wyn60, Mel72, Wal97]. **Interpolations-Algorithmus** [Wyn60]. **Interpolationskoeffizienten** [Str73a]. **Interpolationspolynome** [NR68]. **Interpolationsprozesse** [ES73]. **interpolatorischer** [Eng77, Fie87, For75]. **Interpolatory** [DD99, KRV74, KE82, AJS90, BS81, Fie87, For75, Kau81, Küt82]. **Interpolierenden** [Sch73a]. **interpolierender** [Bau76]. **intersection** [Pyl67]. **Interval** [Nic66b, Ale71, AH72, BV87, BV88, Cle71, FM89, Han80, KK97, May85, May86, MY79, MS99, Nit62, Rei88, Sim78]. **Intervall** [Nit62]. **Intervallen** [MW60a, MW60b, Bla77a, Bla77b]. **Intervallmatrizen** [AH72]. **Intervallrechnung** [Ale71]. **Intervals** [MW60a, MW60b, BL78, Bla77a, FGM87, Ghi68, Bla77b]. **invariance** [Ste84]. **Invariant** [KS73, NS95b, NS96, ACR94, Bey87, BK98, HR94, Lus96, Ste76b, Sto93]. **invarianten** [KS73]. **Inverse** [Faß97, GLM91, Ale82b, BKP79, BDG97, BK81, For68a, Geo79, Had68, Hal77, HV99, Joc80, Lue79, Mor74, Pyl67, RK84, Sch78b, Sch70d, SFR93, gS99, VN93, Vog83b, Wil62b, dO70, Dör66]. **inverse-positivity** [Sch70d]. **Inversen** [For68a]. **inverser** [Sch78b]. **Inverses** [Gau62, Gau63, Gau75a, Hen62, All73, Gau78, NC93, Not98]. **Inversion** [GO94a, Lew82, Ale82b, FM68, GLM89, GLR88, GMS95, Har62, HJR88a, Jer85, Nat78, Nat79]. **Inversmonotonie** [Lor77]. **invertibility** [CHS96]. **Invertierung** [AH72]. **inverting** [AH72, GL87]. **Investigation** [Neu63, BS98a, Neu60]. **Investigations** [Rei71a]. **inviscid** [QLV91]. **involutory** [HC63]. **involving** [BH60b, Hen75, KR84, Raz69]. **Irreducible** [Nod71, BNZ72b, Yam66]. **irréductibles** [HW87]. **irregular** [CM62, Ran84, Tho90]. **irregularly** [Sal64]. **irrégulières** [Tho90]. **isolate** [Por66]. **Isolated** [MV68a, MV68b, JS70, Med71, Med73, Ste75b, Tod65, Var64]. **isoparametric** [Man81b, ŽV95]. **Iterated** [Kat60, Per67, Per68, Böh81, Fra76, Fra77, Hai78, Ise84, Jel73, Sch93]. **Iterates** [Hen62, Yam86a]. **iteratifs** [Gas63]. **Iteration** [Alb62, BG94, Bit64, Bra65, BD68, RM72, Sch70b, Wal67, Wei64, Zaw91, RM72, Alb61b, AV85, BK81, BS85, DD75, DC74, Dou61, Dou62b, FR88, FDD92, Geo79, HNS95, HV85, JT70, Kio79, Man77, Man78b, Mei97, Mey83, NV80b, Nev90a, Nev90b, Ort86, Rut69, Rut70, Sán75,

Sch77a, SV79, Ste69a, Ste70, Ste76b, Ves99, VG88, Wal91, Wil62b, Yao99, Ade69, Sac73]. **iteration-variation** [FDD92]. **Iterationen** [Sch64a]. **Iterations** [Ste94b, FS99, Gar76, Han91b, HS69, Ish84a, Kim98b, Kle65, PS84, Sah85, Sch64a, Ste69b, Ste73b, Wit97, Woź78]. **Iterationsbeschleunigung** [Bra65]. **Iterationsfolge** [Alb62]. **Iterationsfolgen** [Alb61b, Bra65, Ort86]. **Iterationsmethode** [Mit73]. **Iterationsverfahren** [Bit64, Bra70, For68a, Gek72, Sch77a, Wal67, Weg78, Ade69, Sac73, Sch70b, Wei64]. **Iterative** [Atk73, Bos71, BF66a, CRZ99, Cha87, Cha88, Gas63, GV61a, GV61b, GW66, GO88, GeN80a, HB60, JP90, Kin73, MPW66, NP78, SV93, Ale76, BWY90, Bar93, Bea79, Bea86a, BS97a, Bra70, BWW73, CR94, CGR94, Cas77, Cro78, Die87, DPRW93, EMN88, ENR90, Elf80, EGS94, EM91, For68a, FS92, FS94, Gek72, GP78, Gun64a, Gun64b, Gut81, GNV86, Gut89b, Had87, HV64, Heu98, Heu01, Hod67, Kac76, KR84, KW96, Kim98a, KZ94, LRS91, LP95, LR93, LV89, Man85, MS96, Mar69, MS94, Mat93a, Mat93b, McC75, Mis84, Mit73, Nic75, NV83, Pao85, Pao95, Pao98, Par59, Par61, PSS90, Pla96, Pom71, Sch98, Sch87d, Sch88b, Sch79b, Sta97, Tan74, TS98, VW92, Weg78, Weg84, Wol78b, Yam75, Yam76, Kil78, Sch75d, Ypm84]. **iterativen** [Ale82b]. **IV** [CSV68c].

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Kaczmarz [CEG83]. **Kahan** [Mei86]. **KAM** [jS99]. **Kantorovic** [Bau61]. **Kantorovich** [And71, Had96, Häu86, Sch60, Tsu99, Yam86a, Yam86b]. **Kantorovich-type** [Häu86]. **Kantorowitsch** [Mei63]. **Karman** [Miy76, Kes79, Rei82]. **Kergin** [Wal97]. **Kernel** [ML90, BG76b, BH61b, CK74, CK76, HS80, PW86, Sch79a, Slo76]. **Kernels** [Sch72a, Atk72, BRS71, CR74, DP85, Die96, Fie87, HS79, LL80, Jet76]. **Kernen** [Jet76, Sch72a]. **Ketten** [Her74]. **Kettenbruch** [Arn80]. **Kettenbruch-Algorithmus** [Arn80]. **Khachian** [KP81]. **Kikuchi** [Kes79]. **Kind** [Rei90, vPS90, Atk72, BJ85a, BJ86, Bru78, BN81, Bul69a, DMJ86, Egg86, EG95, GP78, HS80, HP75, Hoc79, HvdR63, JS86, KS93, Lau98, LP78, Lor77, Man85, Mid75, Ric78, SW96, Slo81, WA72, Yse83, dHW73, dHW75, vdHtR81, vPS96]. **kind-property** [Lor77]. **kinds** [BF66b, Mor99]. **kinetic** [DLD94]. **kinetics** [ASS88]. **Kirchgraber** [NR92]. **Kirchhoff** [Kil75, Pit88]. **Klasse** [Cro76, Jeg68, Wei64]. **Klaus** [GB81]. **kleinen** [MW60a, MW60b]. **kleinsten** [Döh82, Läu61]. **Kleiser** [CS86]. **Kleiser-Schumann** [CS86]. **Knopp** [GL86]. **knot** [KK97, Pit73]. **Knoten** [Bro78, Pau77]. **Knotenpolynomen** [Pit73]. **Knotenzahl** [Möl76]. **knots** [Boj93, Bra71a, BM92, CH86, GK83, GG86, Gue88, MP96b, Sch78a, Wul73, Sch80a]. **Kocan** [Sch95a]. **Koeffizienten** [Bra65, Lam70, Sch82]. **Koeffizientenfunktionen** [Hav77]. **Koerzitivität** [Gri70b]. **Kogbetliantz**

[CVV88, Fer89]. **Kollokationsmethode** [Kad67]. **Kollokationsverfahren** [Hei89a]. **Komplementaritätsprobleme** [Smo90]. **Kondition** [Sau84]. **konforme** [Men74]. **konformen** [Gai72, Weg78]. **König** [GH66, VG88]. **Konsistenzordnung** [Yse83]. **Konstanten** [Sik61]. **Konstruktion** [Sch73a]. **Konstruktionsverfahren** [Sch71a]. **kontinuierlicher** [NY83]. **konvergente** [Ale73]. **konvergentes** [Dol81, PS82]. **Konvergenz** [Ale76, AV76, Ale82b, AV86, Ans73, ES73, Gri70b, Gri70a, Kle81b, Mer91, Nat75b, Nit70, Sch61c, Wer78, Ans67, Ans69, EH70, Gri75b, Pal77, vFvH73]. **Konvergenzaussagen** [Hei89a, Wit77]. **konvergenzbeschleunigenden** [Sch66a, Sch68b]. **Konvergenzbeschleunigung** [Alb62, Bra70, Ort86]. **Konvergenzkriterien** [Ans64, Eng72]. **Konvergenzordnung** [Hav84, Mül82b, Wag76, Gri75c]. **konvergien** [Sch75d]. **Korovkin** [Ser99a]. **Korovkin-type** [Ser99a]. **Korrektur** [Fre60]. **Korteweg** [GA92, dFSS97]. **Kreın** [GK85]. **Kreın-Sobolev** [GK85]. **Kreiss** [GP85]. **Kriterien** [Het74, Het75]. **Kriterium** [Nit68]. **Kronecker** [CDL96, Lub88c]. **Kronrod** [BR91, Not93a]. **Kryloff** [Ber59b, Wet60, Wet60]. **Kryloff-Bogoliubov** [Wet60, Wet60]. **Krylov** [Ber59b, BS60, Mor94]. **Krylow** [BS60]. **Kubaturformeln** [Möl76]. **Kufarev** [HR79]. **Kuramoto** [Akr92]. **kurze** [Jet84]. **Kutta** [DKS90a, VHS90, ASW93, BZ85, BSW88, CGPM98, Cro79, Cur70, DKS90b, GW86, GMF99, Gug97, Hai82, Hai86, HISS90, HS81, Hun86, HS90, KR79, Kot99, KS91, Lub82, LS70, NW81, QYK99, Rei97, Ren85, SSVH87, Sch95b, Spi86, SW84, Ver88, Ver92, Ver69, Ver77b, Zen86, Zen88, Zen97, Zou97, dHW75, vdH72]. **L** [BGHS79, Mei63, Rut69, SV67]. **L-splines** [SV67]. **L.** [JBC92, Mei63]. **Lagrange** [AL93, BH92a, Ben99, BS70, CMO91, GM82, MT96, MS92, Pit79, SA84, Sül88]. **Lagrange-Interpolation** [BS70]. **Lagrangescher** [NR68]. **Lagrangian** [Bab73, BL97, KP91, NR68, Sch81b, Sch81c]. **Laguerre** [ELR92, Gar76, Web81, Zou99]. **L'Algorithm** [Leb70]. **lambda** [Lan64a]. **lambda-matrices** [Lan64a]. **Lambert** [SS84]. **Lambert-McLeod** [SS84]. **laminated** [Lus96]. **Lanczos** [BRS92, BZS99, Han97, Jia98, Sim98]. **Lanczos-type** [BZS99]. **Landau** [Che97, DGP93, GHR97, Lem98]. **Landweber** [Han91b, HNS95]. **Länge** [Sau78]. **Language** [vWMPK69, AKK$^+$68, BBG$^+$60, BBG$^+$63, PS59]. **languages** [PS59]. **Laplace** [Bri83, CM62, CM70, GL87, GLR88, GMS95, Gus85, Hof67, KS71, Li86, Li87, NW74, Par59, Tha76, Yse80]. **Laplaceoperator** [Yse80]. **Laplaceschen** [NW74]. **Laplacian** [SS88, Spa93]. **Large** [Leg66, Sch73c, Woź77b, BK98, CRZ99, Gir89, GT82b, Ho90b, JM87, Jia98, Kle65, LV84, Nat69a, Sad93b, Sad93a, Woź78, Zha96]. **largest** [Cry67, Döh82]. **lattice** [KZ74, Rei89b, RS95]. **lattices** [BP85, RS86]. **law** [BN90, BL93]. **laws** [CL96a, CM80, KNR95, LS95, LT98b, MO78, Roh98]. **Lax** [Ans66, Hed65, MO78, PSS84, Zwa73]. **layer** [AGS98, BYI86, IU82, Rat93, SSS99, Wen68]. **Layered** [Bit64]. **LCNO** [MP95b]. **leading** [Peñ98, Sad93b]. **Least** [ADdR89, Bau65b, BG65, Cam93, CP94a, Gan81, Gol65b, GW66, GR70a, GvM91, JO74, PCV96, Sau78, SS79, Sre71, vdS75, Axe87, Bar91b, Bjö88, BD72, BS99c, EL88, FH87, Gir89, Han88, HM86, HM89, Kuh93, Läu61, LH88, PW93, Pom68, Saa86, Sau84, Sch81c, SW93, Spä86, Sto64a, VB92b, VV89, Wei92a]. **Least-Squares** [ADdR89, PCV96, EL88, FH87, Han88, LH88]. **Lebesgue** [MS92]. **leg**

[DML83]. **Legendre** [MQ81]. **Lehmer** [Lin61]. **length** [MS85]. **less** [BL81]. **Level** [Yse86b, Bre96, HV99, JK91b, Sch98, Yse90]. **Levenberg** [AO77b, BD72]. **Levenberg-like** [AO77b]. **Levinson** [GH95]. **Lewy** [SSS86]. **Liapunov** [CW78]. **Lidskii** [LM99]. **Lidskii-Mirsky-Wielandt** [LM99]. **Lie** [GeN80a]. **life** [HL97]. **life-span** [HL97]. **Like** [BD68, AG91, AO77b, BH92b, Bor94, Bus77, CT93, DHP99a, Den68, Dol81, Ley86, NC93, Por78, Ves76b, Ves79a, VW79, Yam87, Ypm84]. **Limit** [BRR81a, BJ85b, Hac77a, Jac85, JW88, MPP99, NW84, RW85b, Sep72, TW80, Wuy71]. **limit-periodic** [BJ85b]. **Limitation** [vF70]. **Limited** [Sac73, Lou86, Zet70]. **limites** [Pau81a, Pau81b]. **limits** [Ksc68, Pat76, Pau81a, Pau81b, Tod88]. **Lindelöf** [Nev90a, Nev90b]. **Line** [Ari98, GA87, Voi74, Wal68, AS87, Egg88, EGS94, Jar94, LP95, Par59, Par61, Sch68a, Sch81b, Sch81c, Wer78, vW77b, vW77a]. **line-search** [Jar94]. **linéaire** [Hil83, LV75, Maî68, Pau81a, Pau81b, Rob66, RW85a]. **linéaires** [Cha79, Des61, HW87, Le 80a, Leg66, Tho90, Tro90]. **Linear** [ABS84, AU61, Alb61a, AL85, Auc92, Aum63, Bar69, Bau65b, BL90, Bit64, Bol84, BMPW66, BG65, Des61, Due59, Fer89, Gol65b, GO88, HB60, Jer70, Kem72, Kin73, KvdD77, KS73, Leg66, Maî68, Mül68, NP78, Nev90a, NS96, OP64, Rob66, SS79, SV93, Sti59, Tan71, Wal67, WR71, Woź77b, dBP77, vdS70a, vdS70b, vdS75, AK99, Alb61b, ACP99, AT79, AO76, Ans63, Ans67, Atk67, BL70a, BL70b, BL76, Bar91b, BY66, Bey78, Bia91, BLR86, Bod68, BH71b, Bra82, BRS92, BZ94, BRZRS98, BZS99, Bro65b, BF66b, CR94, CGR94, CGPM98, Car71, CP94a, Cas80a, Cas83, CS76, Cha73b, Cha79, Cho89, CFH68, CW79a, CG67, DML83, DJ69, Dix82, Dol81, Dör96, DMR91, ENV85, EMN88, Elf80, EGS94, EM91, Fer97, Fis81]. **linear** [FR88, FQ99, FN91, Gar65, GT72, Gor70, Gov90, GLC89, Gre80, Gri70a, Gun64b, Gut89b, Had87, Han94, Han88, HP75, He94, HL64a, HL65, Hil83, HW87, Ise84, JK91a, JS95, KR84, Kiw94, Kle65, Kle66, Kna85, KK74, KK76, KZ94, Koh87, Koh88, Kub84, LV75, LRS91, LV97, Len89, LM75, LH88, Lub94, Mak92, Man77, MS96, MS94, Mat80, Mat76, McA68, Mei66, MSS67, Mey70, Mil81, Mis84, MC88a, MC88b, MSW91, Mor89, Müh85, NV80a, NN87, Nie85, Nie73a, NV83, Oli67, Oli68a, Oli68b, OP96, Pau81b, Pla96, Por78, Ran79, Red77, Rei65, Rei91, Reu91, Ris74, RL66, Sau73, Sau84, Sch71a, Sch81c, Sch64a, Sch87b, Sch70d, She77, Smo90, Spä86, SW87, Sre69, Sre71, Ste86, Ste61, Ste65, Ste73a]. **linear** [Sti60, SW99b, Sto93, Sto97, Str64, Tan74, TT87, Tho90, Tom84, Tro76, Tro90, Tsa77, Van79, Ver77a, Vol86, VI86, Wal89, Wer62, Wil62e, Wim74, Wit77, Woź78, Wyn59c, Yam75, Yam76, Zen84b, Zie85, vW77a, Kra68]. **linear-quadratic** [Kna85]. **lineare** [Gor70, KK76, Rei65, Smo90, Sti59, vW77a, Cha73b, Kra68]. **linearen** [Aum63, Bit64, Due59, KS73, Mül68, Sau84, Sch64a, Vol86, Wal67, Wit77]. **linearer** [Alb61a, Alb61b, Bey78, Bod68, Bro65b, Gri70a, KK74, Red77, Sau73, Sch71a, Tro76, Wer62]. **lineares** [RL66]. **linearization** [Kiw87]. **Linearly** [Lub89a, Hun86, Nie95]. **Lines** [RT92, AFW93, Mey78, Seg99, Voi79]. **Linienmethode** [Wal68]. **Liouville** [Hav77, Nat69b, Nit69b, AP86, Hal77, Hav77, MP95b, Mar90, Nat69b, Nit69b, Pru75, VD91, Wei63]. **Liouville-Probleme** [Hav77, Nat69b]. **Liouville-Randwertproblemen** [Nit69b]. **Lipschitz** [Sac73, BS91, BW95, DRW81, Sac73, Sik84, Tou92]. **Lipschitz-beschränkte** [Sac73]. **Lipschitz-Limited** [Sac73]. **liquid** [PR93]. **lissage** [Dia80]. **LMMs** [BMR96]. **Lobatto** [Kam71, Kot98, Not93b, Sch87c]. **Local**

[ELV91, Fae98, GT82a, MS94, AGS87, Arn84, BS98b, CP94a, Cas82, CD91, Con80, DD73b, Egg86, LMR95, Nic75, Pav94b, Sch81a]. **localization** [MW99]. **Locally** [Joh77, EW92, Het74, Het75, Pie70, PS82, Ver84]. **locaux** [Con80]. **Locher** [Lev82]. **Locking** [BS92a, Zha95, CPT98, Cha97, CP94b, Pit92]. **locking-free** [Cha97]. **logarithmic** [BB95, CE92, Deu75, Jar94, KS93]. **lognormal** [Sim78]. **loi** [BN90]. **lokal** [Het74, Het75, PS82]. **Long** [Car71, DP88b, EHG89, PS92a, Wah75b]. **Long-range** [Car71, DP88b, EHG89]. **Look** [GH95, BZS99, FZ93, Fre94]. **Look-ahead** [GH95, BZS99, FZ93, Fre94]. **Lossless** [SV70]. **Lösung** [AU61, Alb61b, Ama72, Ans63, Ans64, Ans67, Ant72, Bit64, Gek72, Kle81a, Kle81b, KR82, Lan87, Leh66, MS78, Mül79a, Mül79b, Mül80, Mül82b, NW73, Sau78, Tör63, Vol86, Arn79, Tro76, WH86]. **Lösungen** [CS59, Dre77, Hüb82, Kil78, Kos86, Koß81, Mar70b, Pet70, Spr76, Tre62, Zhe89, Hof75]. **low** [Bea86b, Pit88]. **low-order** [Pit88]. **Lower** [Ban87, GI88, IK77, Sto68, BG95, Bjö88, Bod68, BS66a, CNV88, Küp76b, Sch75c, VC92a, tR91, Kna71]. **lowest** [GN87]. **LU** [MS98]. **lumped** [Ish81, Ish85, GS93b]. **Lyapunov** [MS72].

M [Sch95a, MS98]. **M-matrices** [MS98]. **M.** [JBC92]. **MAC** [Por78]. **MAC-like** [Por78]. **Machine** [Neu60, Neu61]. **Machines** [GL65]. **Maclaurin** [EV97, LM70, Lyn85, ML98, Sch77b]. **magnetohydrodynamic** [Rap77]. **magnetostatic** [Per99]. **magnetostatics** [Žen95]. **Mandelbrot** [ES92]. **manifold** [EP99]. **manifolds** [ACR94, BK98, DH97, FR84, NS95b, NS96, Rhe88, Spä86]. **many** [Tod88, Tsu72, Tsu73, Tsu75]. **map** [Jer89]. **mapping** [DHP99a, Ell79, HP81, HP83, Men74, Men88, PW86, Ste75a, Šve70, Sym66, Sym67, Sym69, Weg84, Weg89, Weg78]. **mappings** [BHH88, CHS96, KP90, Opf79, Opf80, PPSS97, Stu76, Wei80]. **maps** [Gut81]. **March** [Ano83b, GV88]. **Marker** [Gir76]. **Markov** [Bar93, Lev82, MS94, Mei97, O'C93, SZ91b, Ste93b]. **Marquardt** [BD72]. **Marshall** [Els69, Els69]. **mass** [Ish81, Ish85]. **matching** [BC91, CSZ96]. **matchings** [KvdD77]. **materials** [HB97, Vog83a]. **Math** [Aro63a, Bea86a, Ber60, CS92, Hal60a, Heu01, JN82a, Koh88, Lub92b, MC88a, SV77]. **Mathematical** [BP92, GK64, BS98a, Dör66, Zah77]. **Mathematik** [Ano83b]. **mathematischen** [Dör66]. **Mathieu** [SS66, SG62a, Wag76]. **Mathieuschen** [SS66, Sch61a, SG62a, SEG62, Wag76]. **Mathiew** [Sch61a, SEG62]. **Matrice** [LV74b, CL71, Mai67, Rob66, RM72]. **Matrices** [Ale73, AR85, Bar69, Bau63, Bau69, Bod68, BMRW68, Bus68, Fre90, FNP82, Gau62, Gau63, Gau75a, Gau75b, GI88, GO94a, Hen62, Kat60, Kau81, Lew82, MW65, MW67, MW68c, Mue66, Nab92, NP78, Nic74, PW70, RB68, Sch70a, Sch73c, Sha82, SZ91a, SW62, TT94, Tyr94, vdS69, Ale82a, ALM97, All70, All73, AL76, Bat90, Ben65, BBdH86, BdP72, Buc64, CGR90, CV84a, DML83, Dah85, DL97, DR75, Des63, DZ71, DV99, Dol81, Dub70, ENR90, EFP98, ER67, Els84b, Fre94, Gas65, Gas71a, Gas71b, Gau78, GW95b, GH84, Gre62, Har82, HR94, Hea66, HJR88a, Hei89b, Her74, Ho90b, HC63, Hou66, HVW70, Huc98, JO72, Kel72, vK66a, Kub84, Laf75, Lan64a, Lan64b, Lew71, LV89, LRZ95, Loi68, Lyn63, Mal99, Man70, MO68]. **matrices** [MRW70, MPW70, Mat96, May85, MS98, Mes95, MS72, MS73, MV80, MN85, NV80b, OD95, Paa71, PE97, PW84, Pyl67, Rei89a, Ris74, Ros64, RS63, Rut66b, Rut70, Saa86, Sac72, Sad93b, Sar86, Sar90, Sar96, SS76, Sch80b, Son93, Ste76b, Sto68, Sto84, gS91, Šve70, Tay69b, Tee64, VC81, Ves76a,

Ves76b, Ves79a, Ves79b, VW79, Vit75, Wag97a, Wag97b, Wei92b, Wer72, Wil62c, Wil72, Wil84, Ye95, Yse89, Zen72, Zie97, dV73, vG80, Rut66a, AH72]. **Matricial** [Deu70]. **Matrix** [BD73, BF90, BL80, Bre70, BKP76, BGBMN91, EHM94, ER74, Fie66, Foc65, Gas65, Gas71b, Hig92, KM86, Leh66, Lig90, Mai67, MPW65, MW68d, Nod71, Rob66, Sto62, vF70, Ale82b, MBW67, BH60b, Ber84, BC78, Bra82, BP66, CD79, CL71, CMR86, Deu75, DC99, Dör90, Dry82, Ern96, ESR82, For68a, GK90, GP85, GW95b, HN89, HV64, Har62, HL64b, Hel68, HP92, HUY95, Hod67, Joh77, KvdD77, KM91, LV74b, LE81, Mal99, MRW68, Mat92, MS95a, Mor72, NS64, Osb69, PR69, Raz79, RM72, Rod73, Ruh70, Sch83, Sch68c, Ser99a, Shi78, Shr91, Sim98, Smi67, Ste69a, Ste82, Ste99, Sto64a, gS83, VN93, Ves93, Wil62a, Wil62b, Wil71, Wri92, Yam66, Zen68, Zha96, Zie85, vGS84, Ale82b, Bod68, For68a, FM68, vF70]. **matrix-pair** [gS83]. **Matrizen** [Kul68, Ale73, Bod68, Bra71b, Dol81, MS78, Rut66a, Sch70a, Sch73c, Sch80b, Wer72]. **Matrizenaufgaben** [Leh66]. **Matrizennormen** [Foc65]. **Matrizielle** [Bod68]. **max** [FS99, Lyn63]. **maxima** [Pie70, Pie72]. **Maximal** [Nod71, DV97, LMR95, Yse83, Mül82b]. **maximale** [Yse83, Mül82b]. **Maximum** [BLLN95, Ste63, TW83, Zen84b, Ein71, NW74, Tao84, Wid66, Žen95]. **Maximum-norm** [TW83]. **Maximumsprinzips** [NW74]. **Maxwell** [CZ99, Hop81, Mon92, RS96]. **McLeod** [SS84]. **mean** [CL96b, DD95, DGL99, MH72, Tod90, Wal97, vG80]. **mean-field** [DGL99]. **means** [FF87, JT76, Kna85, Run70, Tod88, Tro76, Wer68]. **measure** [BL70a]. **measurements** [HM89]. **mechanical** [FL91, Sch95b]. **Mechanics** [BB90]. **media** [GJ89, HN92, VV98]. **medium** [JK91a]. **mehr** [Sau63]. **Mehrdimensionale** [Sch70c]. **mehrdimensionalen** [Mit73]. **mehrdimensionaler** [EH70]. **mehreren** [Rei75]. **mehrfacher** [Kil78]. **Mehrgitterverfahren** [Smo90]. **mehrparametriger** [Had69a]. **Mehrschrittverfahren** [Ans67, Gri70b]. **Mehrstellenformeln** [Yse80]. **mehrstufige** [Gek72]. **mehrstufiges** [Bit64]. **meilleure** [Lau67, SA84]. **meinen** [Ber60]. **Mellin** [EP95]. **membrane** [Enn95, Pit92, RSSV97]. **memoriam** [BH87, CV94]. **memory** [NS91]. **Mengen** [Kup71]. **Merhschichtverfahren** [vW77b]. **meromorphic** [HV85]. **Mersenne** [Kar61]. **Mersennescher** [Kar61]. **Merten** [Neu63]. **Mertensschen** [Neu63]. **Mesh** [PS75, VV98, AGP92, AM78, AL96, BKP79, BO80, BS98b, CGH93, Cle71, DD98, Gol81, JY93, Sta77a, Sta80]. **mesh-grading** [JY93]. **meshes** [BX96, CSZ96, DS91, LZ80, Man84, Rum96, SSS99, Sta77b, Ste97, Ste98]. **metals** [PR93]. **Method** [Alb61a, AR85, BDY88, MBW67, BD73, Ber59b, Bit64, Bit68, Bit71, BS60, BB90, Bra60, CMG90, Cup81, Dan67, DH93b, Due59, EB68, ES88, GL65, GR90, Had68, Ker66, Kes79, Leh60, Ley90, LH66, Lin61, Mue66, Ort63, RR90, RT92, Sac73, Sau63, SS66, Sch61a, SEG62, SS79, SB90, ST90, SV93, SZ91b, Tan71, Tör63, Uhl62, VHS90, Wal67, Wal68, Woź77b, Ziv83, Zur63, vFvH73, vPS90, AGP92, AKP95, AC92, AK99, Akr88, AH72, Ale82a, ABFJ97, AM78, Alo96, AL76, And71, ABF99, AL68, AR68, Ans63, Ans67, Atk73, Att77, AL86b, Axe87, ASW80, AHS84, ALS90, AD64, Bab71, Bab73, BD81, BS89, Bad89, BK87, BB92, BC93, BYI86, BE86, Bar71, BZ85, Ben99, BMX98, BP79, BH61b, BH65, Ber91]. **method** [BP92, Ber84, Ber97, Bia91, BB82a, BB82b, Bjö88, Bla72, BC78, BG78, BR88, BMP81, Boh80, Bör89, BD96, BS98a, Bra81a, Bra73, Bro85, BHH88, BEHH75, Cai91b, CGK92, CGR94, CS86, Cas85, CEG83, Cha74, CL75,

Cha99, CT93, CC95, CG59, CŠ79, CMR93, Chr70a, Chr70b, Chu83, CW71, CC85, Cle66, Cle71, CC60, CM80, CP70, CW79b, Cro80, hDxY99, DP72, Dan73, De 68, DD95, DK83, DN89, DC74, Deu74, DPR76, Die87, DH80, Dob81, Döh82, Dol81, Dör70, Dou60, DG86, DHP99b, Dre77, Dry82, Dry84, Dun88, Ebe70, EFM89, EG95, EJSS97, Ern96, EJ81, Eyd84, Eyd85, Fag81b, Fag81a, FMMS99, FŽ88, FK87, FR88, For68a, For68b, Fra76, Fra77, FR86, FN91, Fro88a, GT84, Geo79, Gin63, Gir76, GR79].
method [GLR88, Goë68, Gol62, Gol65a, Gol81, GG71, GHT94, GM66b, GeN80b, Gri80, GB86a, GB86b, GB86c, Gun64b, Guo88, yGL93, GC96, Gus73, HC92, HR89, Hac89, HN89, Hac92, Hal75, HHM76, Han82, Han91a, Han64, Han88, Han97, HP75, Hào94, Har82, HS83, Har78, HH76, Häu86, HL98, Hed65, Hei89a, HW78, HJR88b, Her91, Heu98, HMS99, Heu01, HL99, Hoc81, HM89, HR79, Hop81, Hor75, HP81, HP83, HS70, HHZ94, IM94, Imh63, JBC92, JLR70, Jen91, Jer89, JS86, JY93, Joh73, Kac76, Kad67, Kan98, KR97, Kea79, KS89, vK66a, vK66b, Kes84, KKL97, Kin74, Kir88, Kiw84, Kiw87, Kiw94, Kje61, Kno89, KW95, Kre90, Kri83, KN84, LV74b, Lam80, Lam91, Lan66, LT98a, LV84, LR93, Lev89, Ley86, Li86, Li87, LS87, Li90, Li95, LL80]. **method** [Lin75, LE81, Lor80, LH88, LM98, Lub92a, LR73, MT96, MS94, MGR87, MBL90, Mer91, MS72, MS73, Mey78, Mey84b, MY79, Mig76, Mil85, Mit73, Miy76, MP85, MK80, Mon92, Moo68, MO91, MSW92, Nak85, Nat75a, Neg90, NN87, Nie85, Nie73b, Nie89, Noc89, Oga89, OD95, Osw92, Pal99, PS92a, Pau81a, Pau81b, Pav94a, Pav94b, PB87, Pei91, PV72, Pie70, Pie72, Pit79, PSS90, Pól68, PS82, Pot82, Prö91, PS92b, Pyt02, QLV91, RS76, RK84, Rei89a, Ren79, Reu95, RH93, Rie97, RW65, Rob72, Rod73, Rok72, Rom85, Rua88, RW88, RS88, Rus84, RS72, RS63, Rut66b, Rut69, Rut70, Rya67, SV90, Sad93b, Sal61, SZ61, SS84, SKL88, Sar86, Sar90, Sar96, SK96, Sch71a, Sch77a, Sch81b].
method [Sch81c, Sch68b, SV70, SH95, Sch91, Sch86, Sch61c, ST73, Sch71b, Sch78c, Sch74b, Seg99, SW96, Shi78, Slo88, Smi65, Smo90, Sou69, Spa93, Spe75, Ste95, Ste73b, Ste75b, Ste90b, SB69, Str72, SO86, Sül88, Sun95, Sym66, Tau76, TL91, TS98, Tor97, TS91, TK64, Ura67, Ura70, VŽ95, Ves76a, VW79, Vog83a, Vog83b, Voi74, Voi79, VI86, Wag76, Wag80, WKW97, Wah75b, WFS95, Web94, Weg78, Weg84, Weg89, WA72, Wer68, Wer79, Wer82, Wil62a, Wil62c, Woo68, Yam66, Yam86b, You71, Žen90, Žen95, Zet70, Zha89, Zha95, ZL94, Zlá68, Zou99, d'H93a, dHH87, vW77a, VV98, Ale76, AV76, AV86, Nit76, Bra77].
Methode [Dre77, AG88, Att77, Bre75b, CL75, Con84, Cro80, JLR70, Kes79, LV84, LH66, Mig76, MK80, Pau81a, Pau81b, Rom85, Tor97, LV74b]. **Methoden** [Cro77].
méthodes [Cro79, Del73, Gue94, Par73, SP72, Tro90, Aus71, BK96, Hai77, Le 80a].
Methods [ABS84, Ade69, Ans69, BG95, BV68, Bol84, Bör90, BF66a, Bre75b, Col61, Cro79, Fil64, Fre90, GV61a, GV61b, Gol65b, GO88, HB59, HB60, Kin73, Kre63, Lie90, MT90, Mei66, NP78, Nit68, Rei90, Ver69, Wei64, Zha92a, AGS87, AS97a, AFW93, AO93, AM94a, ADK91, ACM99, Alb78, Alb85, ALM97, AM94b, And69, AL96, ADG84, ASW93, AR93, AM88, Aus71, Axe77, AL86a, AV89, AC94, ASS88, BO80, BMPS99, BJ85a, BJ86, Bak82, BR81, BWY90, BH92a, Bar93, Bar91b, BW93, Bea79, Bea86a, BM87, Bel83, BJZ88, Ben64, BS97a, BK96, BS95, Bey87, BD97, BS96, Böh81, BY93, BF70, Bou90, Bra70, BHR78, BD88, BSW88, BN81, BS66a, BS66b, BS88, Bus77, BC92, CG88a, CGPM98, CHL85, CPT98, CR93, Cas78].
methods [Cas83, CH60, CP76, Cha87, Cha88, CSZ96, CG88b, CS90, CS92, CS76, CK82, Che97,

CZ98, CEL98, CSV67, CSV68a, CSV68b, CSV68c, CSV69, CNV70, CGT94, CW79a, CG67, Cro77, CS98, DML83, DL97, DHP99a, Dej66a, Dej66b, DKS90a, DKS90b, Del73, DG98, Den68, Deu79, Deu83, DHZ87, DMJ86, Dou62a, DJ62, DD73a, DD73b, DPRW93, DSW96, Dut99, Egg84, Egg92, ELP90, ENV85, EMN88, Eie89, ENR90, EN88, ESS92, Elf80, EGS94, Els84a, Els89, EM91, EL88, EW92, FJ75, FF97, FGS95, Fer97, Fer89, FP93, Fie87, FGN81, Föß89, FHL86a, FHL86b, Fro88b, Fro89, FS92, FS94, Fun88, Gab84, Gar96, GN87, Gas96, Gek72, Gek78, Gek82, GW86, GMS95, GMF99, GH73, GM66a, GM68, GM92, GR86, Gri83, GLL91, GKR86]. **methods** [Gue94, GQ98, Gug97, GP83, GS98c, Gut81, GNV86, Gut89b, Hac77b, HM83, Had71, Had87, HV64, HW76, Hai77, Hai79, Hai80, Hai81, Hai82, HL84, Hai86, HO90a, HISS90, Hai99, HP77, Har91, Heb88, Hei89b, Her71, HH99, Hoc79, Hod67, Hop86, HL60, Hul71, HS81, Hun86, HS90, iS91, IJ87, Jac79, Jac82, Jac84, Jay93, JS95, Jel73, JK78, Jel79, Jia98, JMT97, Joh76, JM78, Kal98, KR84, KR79, KW81, Kau89, Kem72, KS92, KV85, KW96, Kim98b, Kin72, Kio79, Kir86, Kle66, Kle81a, Kle81b, KL90, Kor94, Kor96, Koß81, Kot98, Kot99, LG76a, LG76b, LS66, LRS91, Le 80a, LP95, Lee61, Len89, Les73, LV89, Lin93, Liu95, Liu96, LBF98, LM91, Lu97, Lub89a, Lub91, Lub92b, Lyc72, LRT64, LM69, MP96a]. **methods** [MNS74, Mak92, Man85, Man78a, Man81a, Man83, MS96, MQ89, Mat93a, Mat93b, Mat96, Mat90, Mat76, MP96b, Mel99, Mey83, Mie79, Mis99, Mis84, MF64, MG85, Mor94, MMS92, MS95b, Müh85, NC93, NN97, NV83, NS95b, NS96, Nit69b, NW79, NW81, Not98, Nov86, O'R84, Oli71, OO88, OSS90, Pao85, Pao95, Pao98, PW86, Par73, Par59, Par61, Par88, Pat76, Pav94a, Pav94b, PCV96, PPV69, PCT95, PV90, Pla96, Pom71, PQS98, PR94, PR86, QYK99, Rai69, Ran79, Rat93, Red73, Rei97, Rei65, Ren85, RRS89, Reu91, Rit80, RF94, Roc88, RKL89, Rua85, Sad93a, SP72, Sar89, Sar97, Saw82, Sch85b, SHH85, Sch95b, Sch99, Sch87d, Sch88b, Sch79b, STR76, Sch97, Sch74a, SW92, Ser99b, Sha68, Sha84, She92, She94, Sim98, Slo76]. **methods** [Slo81, SW98, SW99a, Smi65, SG78, Spi66, Spi71, Spi86, Squ69, Sta81, Sta77a, Sta80, Sta97, Ste86, SS96, Ste61, Ste78b, Ste73a, Sto84, Sto93, Str64, SW84, SWB91, Tao84, Tay69b, TW83, Tro90, Tur78, VW92, Ver88, Ver92, VC92b, Ver77a, Ver77b, Ver84, Vos75, Wal89, Wan89, WhY88, Wer68, Wit77, Wit78b, Wit78c, Wit89, Wit90, Wol78b, Won92a, Won92b, XS92, Yam87, Ypm84, Yse97a, Zen86, Zen88, Zen97, ZH93, Zla78, Zla81, Zul88, Zwa73, dHW75, de 95, tMS86, vV78, vW77b, Gai72, Gri70b, Had72b, Nat77, Sch79a, Sch66a, Sch78b, Wit78a]. **Metric** [Ans73, BF90, PS66, Ale71, Brä81b, GT72, GT82b, Pie70, Rit80, Wer78]. **Metrik** [PS66, Wer78]. **metrischen** [Ans73]. **MHD** [Rap84]. **micro** [HS97]. **micro-structures** [HS97]. **microstructure** [Lus96]. **microstructures** [Chi99, Li97]. **mid** [BD83]. **mid-point** [BD83]. **Midpoint** [Cha92, AF89, SB83]. **mild** [DJ69, Rok72]. **Mildly** [GP65, Par65b, BMPS99, Car71, Dou61, Dou62b, Gun64b, Mey79, NW76, Reu88a]. **Miller** [MvdS76, Zah77]. **minces** [DN86, Tro90]. **Mindlin** [Pei91, Pit88]. **minima** [Con80]. **Minimal** [CKSS97, VL73, FN91, GG86, Gro89, Hin96, Kac84, Koc95, KP81, Sau97, Sch78a, Sch95a, WFS95, Wil62e]. **minimal-error** [Kac84]. **minimalem** [Lam70]. **minimaler** [Möl76, Sau78]. **minimax** [Jia94, Peh95, Sto63]. **Minimieren** [Zet70]. **Minimierungsprobleme** [Kle81a, Kle81b]. **minimisation** [Aus71, BS77]. **Minimization** [Shi82, Brä81b, CL97, CGT94, Dun88, FG89,

GA87, Gol62, GP67, Kiw87, Kle81a, Kle81b, Kna85, Krä89, Sch97, Slo80, Sto77, Zet70]. **minimize** [Sre69, Sre71]. **minimizers** [BK87, Li95, Li97, Neg90]. **Minimizing** [EHM94, GK64, Ari98, DS91, Jar94, Kiw84]. **Minimum** [And88, Bar65, Bar68, Lam70, Pin75, Ste78a, vG80, Möl76]. **Minimum-point** [Möl76]. **minmax** [Law64]. **minorantes** [Rob66]. **Minorants** [Rob66]. **Mirsky** [LM99]. **mittels** [BS70, Kar61]. **Mixed** [AR93, BHR78, BDDF87, Che97, Gas96, Hua90, MP95a, Néd80, OP96, SSS99, SS96, Ver87b, AABM98, AGP92, AM94a, Alo96, ADG84, AF88b, AHS84, Ben62, BS96, BL97, Bra94, BDM85, BD88, BCS96, CD98, CEL98, Dob81, DG86, DPRW93, Dur90, El 84, EJSS97, EK99, EW92, FG77, FGN81, FM92a, FM92b, FHLM88, GN87, GR79, GP79, HH76, HH99, Ish79, JBC92, Joh73, KS71, LMW84, Le 80b, Le 82, Mak92, Mat93a, Mat93b, Miy76, Mor89, Néd82, Néd86, PCV96, Per99, Red88, Rei82, SS88, Ste86, Ste88, Tod88, VW92, Voi79, Wan89, AG88, Con84]. **mixed-variables** [Ben62]. **mixte** [AG88, FM92a, FM92b]. **mixtes** [AABM98, Con84, El 84, Néd82]. **Miyoshi** [OP96]. **mode** [Bou90]. **Model** [Com59, Arn81, BS91, BB97, CDV99, CCCD93, Che97, DGP93, DGL99, Edd93, GHR97, Had71, HH76, MBL90, OP96, Wah75b, Yse97b, Yse99a]. **Modeling** [Cia90, Eng96, Sch96]. **modelling** [BMR96]. **models** [Ain98, Cha87, Cha88, CGT94, RS96, Sch96, Zha92b]. **Modification** [BNS78, Her70, Yan94]. **Modifications** [Dan67, Jac85, Kub84]. **Modified** [GG90, Mag92, MW68c, Pat93, Ste94a, BJ89, Ben65, CR94, CGR94, Del73, Deu74, DPR76, DHP99b, ESR82, FS70, Hag87, HHM76, HI71, Mey84b, SD72, TL91, Pot78]. **modifiées** [Del73]. **modifizierte** [Mey84b, Pot78]. **modules** [Gai72, PS92a]. **moduli** [BNvW89]. **Moduls** [Gai72]. **modulus** [MH72, Mor78, Mor99, Rei84a]. **Möglichkeit** [Bra70]. **Möglichkeiten** [Häm65]. **Molecular** [FDD92]. **Möller** [VC92a]. **mollification** [Hào94, HA98]. **Moment** [FGM87, Gre82, LM91]. **Moment-preserving** [FGM87]. **Moments** [BH60a, GG90, Hou68, CGR94, Gau86, SD72]. **momentum** [FDD92, LG76a, LG76b]. **Monde** [LM66]. **Monitoring** [Bus71, ER74]. **monosplines** [BL74, Gro89, Str84, Bra74]. **Monotone** [Alb62, Bar72, Bel83, CSV69, Ish84a, KR84, Kor94, Kor96, Pao85, AV85, Cha74, Cho89, DDM92, EM87, Egg88, El 84, Fro88a, Kos86, LMR95, Lor77, Pao95, Pao98, Sac73, Sch64a, Sch72b, SW99b, Žen95, Alb61b, Bra65, Sto70]. **monotonen** [Alb62]. **monotoner** [Kos86]. **Monotonic** [Alb61b, BSW61, El 84, MP99, SL86]. **Monotonically** [Sch79b, Gal89]. **Monotonicity** [Spi86, Str84, Str73b, DE96, FP66, För93, Kra86, MVW79, Nik92, Ste68, Utr85, vdGK86, Hof75]. **Monotonicty** [Col61]. **Monotonie** [Loc80, Bra78, Col61, Sto70]. **Monotonie-Eigenschaften** [Sto70]. **Monotoniesätze** [Hof75]. **Monotonity** [Fia90]. **Monotony** [Küt82, Loc80, Bra78]. **Monte** [CdM70, CP70, Gir89, Han64, Ksc68, Oga89, TK64, TIK67]. **Moore** [Lue79]. **Morley** [PB87]. **mortar** [AKP95, Woh99, Ben99]. **Moser** [Hal75]. **motion** [CL96b, FL91, GK94, LG76a, LG76b]. **mountain** [CMR93]. **moving** [TS91]. **MR** [Bea86a, CS92, JN82a, Koh88, Lub92b, MC88a]. **Muhlbach** [AS97a]. **Multi** [Cia90, Hop86, Hua90, Kir86, Par61, Wit89, Yse86b, BB97, CH89, HM83, Hac89, Hac92, Hal60a, Hal60b, Han80, Hee68, JK91b, Rhe88, Sch98, Ste93a, Ura67, Wam94, Wit90, Yse90, d'H93a, vW77b]. **multi-component** [BB97]. **multi-dimensional** [CH89, Hal60a, Hal60b, Han80, Rhe88].

Multi-Grid [Hua90, Hop86, Wit89, HM83, Hac89, Ste93a, Wit90]. **multi-homogeneous** [Wam94]. **Multi-Level** [Yse86b, Yse90]. **Multi-line** [Par61, vW77b]. **multi-point** [Ura67]. **multi-sector** [Hee68]. **Multi-step** [Kir86]. **Multi-Structures** [Cia90, d'H93a]. **multi-time-level** [JK91b]. **multibody** [SFR93]. **multicommodity** [SD94]. **multiderivative** [JK78, Jel79]. **Multidimensional** [EH70, Ber72, BMP81, CC95, CP70, LLS98, Neg90, Sch91, SW93, ST89, Sch70c]. **multidomain** [SV90]. **Multigrid** [BDY88, BB90, Sch85b, Sch99, vPS90, BB92, BD96, Bra81a, BD99, Heb88, Kor94, Kor96, Man81b, Par88, PB87, Pei91, Reu88a, Reu91, Reu95, Smo90, WKW97, Web94, Zha89]. **Multilevel** [BW99, BD97, DK92, DSW96, HH99, Kin92, VW92, Zha92a, AV89, BY93, ELV91, HR89, LN99, Man85, Not98, Osw92, Pei85, Pfl98, Reu88b, Rie97, Yse86a]. **multiparameter** [Mül82a]. **multipas** [Cro80, Le 80a]. **multipass** [Cro80, Le 80a]. **Multiple** [BL76, SZ91a, SSBB88, CR94, CCK95, Cuy83a, DL97, Dan66, Deá80, Deu74, Deu79, DLO$^+$77, GK83, Kil78, Kio79, Lor80, Mal99, MBL90, MP96b, MS95a, Ral66, gS92, gS95b]. **Multiplicability** [Foc65]. **Multiplication** [BL80, Bre70, HN89]. **multiplicative** [BD97, EHG89, GO95, Lan72, LM99]. **multiplicity** [HP76b, Van82]. **multipliers** [Bab73, BH92a, Ben99, MT96, Pit79]. **Multiplikativität** [Foc65]. **multiply** [DHP99a, Ell79]. **Multipoint** [CW71, Ste94b, Wal98, BF70, Jer70]. **Multipole** [Lem98]. **multisplitting** [ALM97, Els89, Fro89]. **multisplittings** [FM89]. **multistage** [JN86]. **Multistep** [Lie90, ACM99, Alb78, Ans67, Cas83, CS76, DML83, Dej66a, Dej66b, EN88, ESS92, FP93, Gri70b, Gri83, Hai99, Hoc79, Jac79, Jel73, JK78, Jel79, JN86, Kem72, KL90, LS66, Len89, Lub91, Lub92b, Lub94, Lyc72, Mat76, NS96, Sch95b, Sch97, Sha67, Ver77a]. **multistep-methods** [Gri83]. **multivariable** [BL81]. **Multivariate** [CD90, MS95a, Wer86, Cuy82, Cuy83b, CV84b, CDL96, Gut87, Won84]. **Munich** [Ano83b]. **MUSCL** [CL96a, LS95]. **my** [Ber60, Dou62b].

nach [BS60, Bra60, Fel61, Kad67, Kre72b, Läu61, Sch79a]. **Nachtrag** [Fre60]. **Näherung** [Ale82b, Mit73]. **Näherungen** [Kos85, Men74]. **Näherungslösungen** [Leh67, Leh61]. **Näherungsverfahren** [Nit70]. **näherungsweisen** [AU61]. **nährungswise** [Ama72]. **narrow** [ŽV95]. **Natural** [Leh61, Utr83, Ver88, Zen88, BH92a]. **natürliche** [Leh61]. **Navier** [AGP92, AM94a, AYB98, BMM87, Cam70, CMQ84, CMG90, FB89, Gir76, GR79, Gue94, GQ98, GP83, HL98, JLR70, Le 80b, LO98, Pir82, Por78, She92, Sül88, SSBB88, TL91, Ver87a, Ver91a, Wit89, Wit90]. **Near** [ST90, Hed65, KO98, Rei88, Tho90, Tho71, Vas88]. **near-field** [KO98]. **near-stability** [Hed65]. **nearby** [Kri64]. **Nearest** [Dem87]. **Nearly** [SZ91b, Bar93, FHLM88, Ste93b, Vog83a]. **nearness** [Mit73]. **Nebenbedingungen** [Hof70, KK76, Cro77, Het75, Hof69, Sau84]. **nebencharacteristics** [Wer68]. **Nebencharakteristiken** [Sau63]. **Necessarily** [Sac73]. **Necessary** [Sha82]. **Need** [Nic66b]. **négatifs** [DGB80]. **Negative** [Nod71, HL64b, DGB80]. **neighborhood** [AD93]. **neighbourhood** [Mid75, ZG78]. **neighbouring** [Wil84]. **Nennerpolynoms** [Lam70]. **Nested** [MV69, CR89, GT87, LRS91, Rom85]. **network** [SD94]. **networks** [Eng96]. **neuen** [Lod70]. **neues** [Döh82]. **Neumann** [BE87, Bör89, Gek74, Han94, Kat60, KS71, MG85, Ple76, Shi78, VV84, Zou97]. **neutral**

[BJZ88, Hor75, Jac82, Liu95, QYK99]. **Nevanlinna** [AY83, KC93]. **Neville** [Müh78]. **Newman** [CNV88, tR91]. **Newton** [AH72, Bra78, Kle81a, Kle81b, Mey84b, Wit78b, Wit78c, AM78, AR68, BR81, BK81, Boh80, Böh81, Bra77, BD68, Bus77, CG59, Col61, CV84b, Dan73, Den68, Deu74, Dun88, FN98, Fro88a, Gol65a, Gri80, GT82a, GR70b, Gut89a, Had68, Hal75, Häu86, Jer85, Jer89, Kal98, KS89, Kle81a, Kle81b, Kno89, LW82, Lan66, Lub89b, Mey84b, Mie79, MVW79, Moo68, MO91, Müh79, NC93, PP80, Ptá76, Ral66, RB68, Rob72, Rok72, Sch85a, SHH85, Sch71b, Sch74a, SG78, Tsa77, Yam86a, Yam86b, Yam87, Ypm84, Bra77]. **Newton-interpolation-algorithm** [Müh79]. **Newton-Like** [BD68, Bus77, Den68, NC93, Yam87]. **Newton-like-iterative** [Ypm84]. **Newton-method** [Bra77]. **Newton-Moser** [Hal75]. **Newton-type** [Mie79, SHH85]. **Newton-Verfahren** [AH72, Mey84b, Wit78b, Wit78c, Bra77, Had68]. **Newtonian** [AG88, BN90, BL93, BL94, Raz69]. **newtoniens** [AG88, BN90]. **Newtonschen** [Col61]. **NGP** [QYK99]. **NGP-stability** [QYK99]. **nicht** [Sac73, Sch80a, Wer78]. **nicht-äquidistanten** [Sch80a]. **nicht-exakter** [Wer78]. **Nichtäquidistante** [EN80]. **nichtkompaktem** [Sto70]. **nichtkompakter** [Gri85]. **nichtlineare** [AV86, Bra70, GKR86, SV70, Wit78c, Boh67, Hof70]. **nichtlinearen** [Arn79, Boh69, Cro77, För67, Hof69, Sto64b, Vos75, Wal68, Wer69]. **nichtlinearer** [Ama72, Bau76, Cro76, MS78, Pet70, Red77, Saw82]. **nichtnegativer** [Sch80b, Yse83]. **Nichtnegativitäts** [Gor70]. **Nichtnegativitäts-und** [Gor70]. **nichtsymmetrische** [AB85]. **nichttrivialen** [Bra71b, Sch70a]. **no** [Bea86a, CS92, JN82a, Koh88, Lub92b, MC88a, SV77]. **nodal** [HJR88b, dV93]. **Nodes** [Dag90, Bro78, CC85, DP88a, Dry94, EFP98, Fri70, MS92, Pau77, SSS99, TS91]. **nœuds** [GG86]. **noise** [GK66]. **noisy** [AY93, CW79b, Gir89, HdH85, Utr85, Wah75a]. **nombre** [GG86]. **Non** [Fre90, Hen62, Nod71, Str64, Ver91b, AK99, AG88, AB74, Atk67, Aus71, ASS88, Ban87, BL70a, BL70b, BS91, BB97, BM92, CGPM98, Car71, CSZ96, Cha73b, Cho89, DD95, Del80, DM96, EGS94, FGS95, Gun64b, HR94, HL64b, Hsu62, vK66a, Klo99, Le 80a, LL80, MSS67, Mis99, Mis84, MSW91, Pau81a, Pau81b, Ped96, PCV96, Rap77, SA84, Sar97, Sch80a, Ste65, Ste68, VI86, Wyn59c, BL94, BW95, CD79, FN91, GH95, Ste76b]. **non-** [Ste65]. **non-compact** [Rap77]. **Non-conforming** [Ver91b, Sar97]. **non-convex** [Ped96]. **non-definite** [Mis99]. **non-differentiable** [Aus71, ASS88]. **non-distinct** [vK66a]. **non-equidistant** [Sch80a]. **non-exact** [AB74]. **Non-Hermitian** [Fre90, CD79, FN91, GH95, Ste76b]. **non-linéaire** [Pau81a, Pau81b]. **Non-linear** [Str64, AK99, BL70a, BL70b, Car71, Cho89, Gun64b, MSS67, MSW91, Pau81b, VI86, Wyn59c]. **non-Lipschitz** [BS91, BW95]. **non-matching** [CSZ96]. **non-monotonicity** [Ste68]. **Non-Negative** [Nod71, HL64b]. **non-Newtonian** [AG88, BL94]. **Non-Normal** [Hen62]. **non-parameterized** [DM96]. **non-parametric** [DD95]. **non-periodic** [Hsu62]. **non-quasiconvex** [Klo99]. **non-self-adjoint** [HR94]. **non-selfadjoint** [PCV96]. **non-smooth** [Ban87, BB97, LL80]. **non-symmetric** [Mis84]. **non-symmetrizable** [EGS94]. **non-uniform** [BM92, FGS95]. **non-unique** [Atk67]. **Noncompact** [Sto70, Gri85]. **nonconformal** [Tro90]. **nonconformes** [Tro90]. **Nonconforming** [CPT98, JMT97, Ran79, Bre96, ByS99, CL94, EJ81, For85, GN87, LZ80, Li86, Li87, Liu96,

Osw92, SJX97, Won92a, Won92b, Won93]. **nonconvergent** [Del80]. **nonconvex** [Chi91, YN93]. **nondefective** [gS92, gS95b]. **nondifferentiable** [Kiw87, Rap84]. **nondominant** [Lev89]. **nonhomogeneous** [BS89]. **noninvertible** [KR84]. **Nonlinear** [AM94a, Boh69, BK84, CT93, Hof69, MT90, MSW88, OSS90, Tsu75, VC92b, Wal68, Wer69, Woź77a, Žen89, AGS87, ADK91, AH72, AV86, AM78, Ama72, AO77a, AO77b, Arn79, Auz87, AC94, ALS90, BMPS99, BBG98, Bau76, Bit70, Bla72, BLR89, Bos71, Bra70, BRR80, BRR81a, BRR81b, BG71, BD72, Bus77, Cam93, CM95, CG95, CGH93, CSV67, CSV68a, CSV68b, CSV68c, CSV69, CNV70, CL96b, Cro76, Cro77, Dan73, DC74, Deu74, DPR76, DMJ86, Dou61, Dou62b, DD73a, Dun88, ES90, EKN92, Eyd84, Eyd85, FŽ87, FŽ88, FN98, För67, Fro89, GH92, Geo79, GP65, GeN80a, GeN80b, GKR86, Gut81, GNV86, Gut89b, Hac79, HR89, HNS95, HL98, Hoc79, Hoc81, Ish84a, ID86, JM87, nJyH99, JO80, Kal98, KR84, Kan98, Kar68, KR97]. **nonlinear** [KS92, Kin72, KM98, Le 80a, Le 82, Lub91, Lub92b, LR73, MO78, Man81a, Man83, McC75, Meh67, MS78, Mey79, Mey78, Mey84a, Mey83, Mit78, Mit80, Mit81, Moc74, Moo68, MSW92, Nak85, Neg90, Nii85, Noc89, NW76, OA75, Osb67, Osb68, Pao87, Pao95, Par65b, Pau81a, Pau81b, Per67, Per68, PPV69, Pet70, PR94, Rap84, Red77, Reu88a, Ric74a, Rob72, RW88, Sah85, Saw82, Sch93, Sch98, Şch73b, Şch75a, Sch81b, Sch81c, Sch94a, SV70, Sch79b, Sch71b, Sch72b, Seg99, Seo95, Ser99b, Sey79a, Sha68, Sik84, Söd86, SG78, Spr80, Sto63, Sto64b, Sül88, Tsu88, Tsu99, TK64, Voi74, Voi79, Vos75, Wer82, Wit78c, YM86, Žen90, Zen97, ZH93, Boh67, Hof70]. **nonlinearities** [BW95, CD73]. **nonlinearity** [BS91, BS99a]. **nonlinearly** [NMC89, Wol78a]. **nonmonotone** [GLL91]. **Nonnegative** [NP78, OO98, MN85, Sch80b, Son93, Yam66, Yse83]. **nonnegativity** [Mav77, Gor70]. **nonoscillatory** [LT98b]. **nonoverlapping** [NN97]. **nonperiodic** [BMM87]. **nonselfadjoint** [Cha73b]. **nonsimple** [RP85]. **Nonsingular** [ZH93, BRR80, DP72]. **Nonsmooth** [Cho90, BL86a, CEL98, Dut99, Hel87, RS88]. **Nonstandard** [Sar97]. **nonstationary** [Dob81, GL99, Had87]. **nonstiff** [BSW88]. **Nonsymmetric** [SV93, AB85, BDG97, CGR94, ENV85, Ho90b, KS99, Man77, Man78b, MS96, Sta97]. **Nontrivial** [Sch70a, Zen72]. **nonuniform** [Gol81, EN80]. **Norm** [EB68, Gas65, Gau75a, Lod70, Mai67, Nat71, Sch83, Ban87, Bar65, Bar68, BL94, Bau62, BY93, CD85, Dav62, Des63, Ebe70, Gro89, Hig92, Mal99, Mei86, Not90, Not93b, Owe77, Pin75, SS98, Sre69, Sre71, Ste78a, Tao84, TW83, Wid66]. **norm-preserving** [Mei86]. **Normal** [Hen62, Bar84, Bat90, CL71, Deá80, dV73]. **normale** [CL71]. **normalen** [Bar84]. **Normalität** [Bra74]. **normality** [Bra74, CDL96, Lub88c]. **normalizable** [Hou66]. **normalized** [VC94]. **Norme** [Mai67, Lau67, Tao84]. **Normed** [Lau67, SW62, GT72, LPDT70, Sch78c]. **Normen** [Nit70]. **Normes** [RM72, Gas63, Gas65, Gas71b, Maî68]. **normierten** [Sch78c]. **Norms** [BF60, BSW61, Foc65, Gas63, Gas71b, KV72, Kin73, Maî68, SS62, Sto62, VL73, AO76, AO77a, AO77b, BO80, Bac70, BH92a, Bar72, BH61a, Deu70, Deu75, FS99, Gri67, Joh77, Kri64, Lan72, Sto64a, RM72, Nit70]. **Not-Necessarily** [Sac73]. **Note** [GW66, Hsu61, Mig76, Nod71, Sti60, VH89, Wil62d, Wil72, Wyn63, dO70, vV77, AB84, Bak82, Ban92, Cas77, Cas80a, CGT94, Dij59, Dub70, Els84b, Her91, HVW70, HS81, Jet84, KL90, Lan72, LV89, Med71, Med73, Mey79, MN85, NBE97, Osb69, Osb65, Sch97, Sep72, Ves99, Wul73]. **notice** [JHW77]. **notwendig** [Sac73]. **Notwendigkeit** [Nic66b]. **null** [BHK+85, Pot89, Ste84].

Nullstellen [BS70, Bra77, Dir69, Ker66]. **Nullstellenbestimmung** [Wer79]. **Nullstelleneinschliessung** [AH72]. **Num** [Aro63a, Ber60, Hal60a]. **Number** [EHM94, GI88, Bad89, Bra81a, Bre99, Coh60, DP88b, EHG89, Fri70, GG86, Hüb82, Kem68, Kle65, KS83, MP96a, Mar62, Mar70a, Saa86, Sah85, Sch78a, Šve70, YK88, Zhe89]. **Numbers** [AR85, Dem87, Kar61, Lin61, Lod70, SZ91a, vdS69, Ask72, Bit91, CdM70, DA71, Fis61, GT78, He97, Kim96, Nie85, OD95, RDM62, Rya67, Smi67, gS92, gS95b, Won93]. **Numer** [Bea86a, CS92, Heu01, JN82a, Koh88, Lub92b, MC88a, SV77]. **numerator** [Lam70]. **Numerical** [Agu89, Alb61a, AU62, Alb85, ACP99, AB87, AY83, Alt80, AB74, Ano83b, Ano84, AS87, Arn84, ASS88, BO90, Bao96, Bar69, BZ85, BH65, Bet70, BK98, BL86b, BLR89, BG78, BMR96, BP98, Bol84, Bra60, Bra61, Bro85, Bul65a, Bul65b, BS66b, Bul67, BS67, Bul69b, BGBMN91, CDV99, Car99, CR74, Chi91, CCK95, CM70, Chr70a, Chr70b, CSV67, CSV68a, CSV68b, CSV68c, CSV69, CNV70, Coh59, CE92, DL97, DJ69, DHP99a, DN89, DJ62, Ein71, FG73, FG89, FF87, FL91, Gau61, GK85, Gol65b, GP78, Gue88, HM86, HS91, Her71, HL60, Ish85, LV74a, Lan77, LM66, MPP99, Mar65, Mas87, Mel95, Mil65b, ML90, Nab92, Nat78, Nic66a, Nie80, OP81, Pao87, PR93, Rak73, RP85, Rou87, Rut60, RN98, Sch86, Sch84]. **Numerical** [Sey79b, Sey79a, SK73, Sim78, Sta70, Ste72, Ste66c, Sym67, Tör63, Tsu72, Tsu73, Ura67, VV98, Web81, Wer68, Woź77b, Woź77a, YN93, Zaw91, dJ77, vD73, AM78, AG91, And69, Ans64, AM88, Atk72, Atk73, BK87, Ban92, BS59, BR91, Ben64, Bit91, BZ82, Bus71, CPT98, Car71, Cas78, Cas80a, Cas81b, Cas81a, Cas83, Cha61, Cha71, Chi99, CŠ79, CMR93, Chu83, Cle66, Cle71, CC60, Coh60, Coo71, CS88, Cro76, Cry73, Des70, DPR76, DNvW84, DE94, DE96, DLO+77, Dob89, Dou60, Eis67b, EM91, Eng72, Eng96, FGS95, FB89, GL87, GLR88, GS77, Goë68, GMF99, GG71, Gov90, GP65, GHR65, Gre62, Gun64a, Gus73, Hac77a, Had71, Hai81, HL97, Han82, HP75, Heb88, Hen75, Hin96, HvdR63, HP83, HMSW99, Hsu61]. **numerical** [Hsu62, Hun73, Imh63, iS91, Ish84b, IU82, JLR70, Jer85, JN94, Joc80, Kad67, KW95, Kra86, Kra63, KP90, Kre68, Kre72b, KS93, KM98, Kut75, LG76a, LG76b, LSW85, Lan87, LV84, LP78, Li95, Li97, Lue79, LT68, MNS74, Mar84, Mat93a, MS67, Mei97, MM74, MP92, Mik70, Mil72, Mon84, Mon87, Mor80, Mül79a, Mül79b, Mül80, Mül82b, MI82, NMC89, Neg90, NW73, Nev77, Nie73b, NS91, NS95b, NS96, Nov86, OP88, Oli68b, Oli71, Osb65, Osb67, Osb68, PE72, Pag81, Pao95, PW86, Par62a, Par65b, Pau81a, Pau81b, Ped96, PPV69, PB81, RS70, RL81, RK84, Rei82, Ren79, RKL89, SP72, SU89, Sal60, Sal63, SS76, SK96, Saw82, Sch64b, Sch66b, SW92, Soc88, Spi66, Spi76, Spi83, Ste95, Tan92, Tem83, Ura70]. **numerical** [Van79, VŽ95, Vei60, VV88, WL79, Wil64, Wit89, Woo68, Wyn62, Zad76, dFSS97, vdGK86, Aus71, BN90, Cro77, DN86, KO98, LV74b, Leg66, Nat69b, Pit73, WS59, Web79, Wei80, Wit78a]. **numerically** [BMX98, GH84, Gün98]. **Numérique** [LV74b, BN90, DN86, GG86, JLR70, LV84, Leg66, Pau81a, Pau81b, SP72]. **Numériques** [LV74a, Aus71]. **Numerische** [Ano83b, Bra60, Bra61, Eng72, Kad67, NW73, Nic66a, Sch66b, WL79, Cro77, Nat69b, Pit73, WS59, Web79, Wei80, Wit78a]. **numerischen** [Alb61a, Ans64, BS59, Kre72b, Lan87, Mar65, Mül79a, Mül79b, Mül80, Mül82b, Rut60, Saw82, Sch64b, Tör63]. **numerisches** [Nie73b]. **Numerov** [AP85]. **Nyström** [Atk73, CG88b, HW76, Hai77, Kre90, NV80a, Spe75].

O. [GP85]. **O.D.E.s** [Cas80b]. **obéit**

[BN90]. **Obere** [Lin76]. **obeying** [BN90, BL93]. **Obituary** [GV88]. **objective** [Eyd84, Eyd85]. **observables** [MPP99]. **observation** [Par62a]. **observations** [JTW89]. **obstacle** [HHZ94, JN94, Kik81, Krä89, Sch86]. **obstacles** [ABF99, OO88]. **obtain** [Wyn66]. **obtained** [Sch81a, TM73, Zul88]. **Occasion** [Ano83b, FV94]. **occurring** [Kra86, Rei84a, Wer72, vdGK86]. **odd** [Mar70c, Rei84a]. **ODE** [Kac84, Kir88, NR92, EN80]. **ODE-solver** [Kir88, NR92]. **ODEs** [Alb85, Dah85, Ste90b, Wri94]. **off** [GF73, Woź78]. **Ohne** [AH72]. **Olkin** [Els69]. **Olver** [Oli68a, Van79]. **One** [BNS78, DHZ87, Jou71a, Man78a, Squ69, VH89, Ziv83, AFW93, BV84, BJZ88, Bey87, BSV68, Bou90, CP76, CC85, DML83, Fun88, FH90, GK94, GB86a, GB86b, GB86c, Jam70, Jou71b, Kir86, Kle81a, Kle81b, LSW85, Mey70, Nak85, PB81, RK84, Rei75, RF94, Seg99, Sha84, Sto93, Str82, Stu89, TW83, Ura70, Ver84, Wei92a, CSV67]. **One-Dimensional** [Jou71a, AFW93, BV84, Bou90, CC85, FH90, GB86a, GB86b, GB86c, Jam70, Jou71b, LSW85, RK84, Ver84]. **one-leg** [DML83]. **one-phase** [Mey70]. **One-Sided** [VH89, Str82]. **One-step** [DHZ87, Man78a, Squ69, BJZ88, Bey87, Kir86, PB81, Sha84, Ura70]. **ones** [vG82]. **ONLINE** [Ano99]. **onto** [MT78, Opf80]. **open** [HMS99]. **opérateur** [Cha73b, Rob66]. **opérateurs** [Cha73b, CL75]. **operation** [Dav62]. **operational** [Egg92, Lub88a, Lub88b]. **operations** [Lor92]. **Operator** [Ans73, Boh69, CSV69, Mel99, Rob66, Cha74, Cha73b, CDL96, DLD94, EJ81, FL70, FGM67, HM89, KR97, Kos86, Lei71, Lem98, MD77, Moo68, NC93, PL69, Per67, Rap77, Ste71, SF86, Tho75, Vog83b, Wol78b, NW74, Sch66b, Yse80]. **operator-theoretical** [MD77]. **Operator-Ungleichungen** [Sch66b]. **Operatoren** [Sac73, Had72a, Kna71, Wit77]. **Operatorenfolgen** [Ans73]. **Operatorgleichungen** [Kos86, Boh69]. **Operators** [KV72, Kna71, Nat71, Sac73, Bau65a, BG95, Bea79, Bea86a, BH65, Cha73b, CL75, Cha79, DP63, Gri70b, Han97, HSY91, Heu98, Heu01, Kel65, Kje61, KS83, Küp76b, Küp78, LMR95, LM75, MS90, MS94, May65, Mil67, Sch94b, Sch65, Sch70d, Ser99a, Söd86, Sti88, Wag83a, Yam68, Zen84b, Had72a, Küp76a, Wit77]. **Optimal** [BH90, BWW73, CK74, CK76, CH86, ENR90, GN87, HP94, Koh87, Koh88, Leh66, Lev82, Ley90, Mei67, MMS92, Rei88, Rou87, Sal60, Sik82b, Sik84, Ste78a, Str69, Tha90, Tro86, ZH93, vG82, AB84, Arn82, Bar68, BLW74, BL76, Bro78, DS91, EG95, Els84b, EG94, För82, GT67, GM77, GNP89, GM94, GHR97, HT95, IS96, KS89, KW99, KWW85, LS70, MM74, MRW76, OO88, Pal77, Pat93, Pau77, Rum96, Sch81a, Sik82a, Ste86, Tom84, Vog83a, Whi77, Wil97, Zer94, Zha89, For75, GS74, Jet76, KK74, KK76, Leh63, Pal76, Sch72a, Sch63]. **optimale** [Bro78, GS74, Jet76, KK74, KK76, Leh63, Pal76, Sch72a, Sch63]. **optimalen** [För82]. **optimaler** [Leh66, Pal77, Pau77]. **Optimalität** [For75, Nit68]. **Optimality** [Nit68, PHP90, ST90, Sug97, Luk93]. **Optimally** [Bau63, Bau69, Bus68, Gau75b, Sha82]. **Optimierung** [Kra68]. **Optimierungs** [Wet70]. **Optimierungs-** [Wet70]. **Optimierungsaufgaben** [Sau73]. **Optimierungsprobleme** [SV70]. **Optimierungsproblemen** [KR82]. **Optimierungsverfahren** [Sch75d]. **Optimisation** [Mav77, Sch75d]. **Optimization** [Kra68, Wet70, ABFJ97, GT82b, GLL91, Han80, McC75, Opf80, Opf82, OO88, Pot89, Reu91, SDK91, SV70]. **Optimum** [Had87, LT98a, DB77, For68b, NF69, You71]. **orbit** [AD93]. **Orbits**

[CKP95, FP93, Had80, Had96]. **ord** [Sau67]. **Order** [Ade69, CGG90, Deu83, GV61a, GV61b, GH99, Hai81, NW79, Rut60, SWB91, Ver69, AF88a, AU62, Alb78, Ans63, ADG84, BO80, BDS80, BL86a, BBG98, Bel83, Bra66, BDM85, BDDF87, BS88, BEHH75, CR93, Cas78, Cas81b, Cas81a, CŠ79, Chr70a, Chr70b, CSV67, CSV68a, CSV68b, CSV68c, CSV69, CNV70, Coc65, CGT94, Cry73, Cur70, CV84b, Del73, DH80, DPRW93, EFM89, EG95, FF94, Fer97, FGN81, Fun88, FH90, GN87, GW86, GW95a, GHR65, GM94, Guo88, Hai78, Hai79, HHM76, Hav84, Her90, Het75, HL99, Jeg68, JO80, Kac84, KR79, KW81, Kio79, Kos85, KNR95, Küp78, LG76a, LG76b, Lau98, Lev89, LT98b, LR73, LS70, MK60, Man78a, Man74, Mar84, MGR87, Mil85, Moc76, Mül82b, Nat69a, PPV69, PS84, Pfl98, PV72]. **order** [Pit88, Pru75, Qun91, Rei97, SA84, SSVH87, Sch61d, Sch61e, Sch84, Sch74a, Ser99b, Sha67, She92, Son92, Spr76, SS95, Sun95, Sun98, Tho90, Tro76, Ura70, Van79, Vas88, Wag76, Wal91, Wan89, Wer79, Wer82, Yse83, Zha89, Zlá69, Zlá70, dV93, tMS86, vV78, AU61, ADK91, Gri75c, Het74]. **Ordered** [Kra68, Boh67, Sar96, Tay69b]. **Ordering** [MC84, Nic74, Ale82a, Bra92, Bro68, NF69, Rei89a]. **Orderings** [BV68]. **orders** [CL75]. **ordinaires** [Tho90]. **Ordinary** [CKP95, Nat70, Nat71, Rut60, Wer69, AKK74, Alb60, Alb78, Arn79, BD83, Ber59a, Bet70, Bey78, BS66b, Cas78, Chr70a, Chr70b, Coo71, CW78, DD98, DLO$^+$77, Ess77, FG73, För67, Gar96, Gau61, GS74, GF73, Gri70b, Gri85, Hai81, HL60, Ise84, KR79, Küp76a, Küp76b, LS66, Lan77, Lyc72, Man78a, Mar75, Mey70, Mül79a, Mül79b, Mül80, Nat69a, Nat75a, PS75, Sch61d, Sch61e, Sey79b, Sey83, Sha67, Squ69, Tho90, Tro76, Ura70, Web79, Wet60, Zad76, Zha93]. **ordinate** [Zla81]. **ordinates** [NV80a]. **Ordinateurs** [LV74a]. **Ordnung** [Ade69, Ans63, Het74, Het75, Jeg68, Küp78, Tro76, Wer79, AU61, Kos85, Mar70c, Nat69a, Rut60, Sch61d, Sch61e, Spr76]. **ordre** [Del73, Tho90]. **ordres** [CL75]. **oriented** [Gün98]. **origin** [Lub88c]. **Orlicz** [Rob71]. **Orr** [Fis93]. **Orthogonal** [GR90, LBF98, Rat82, RF94, Rut66a, Spä86, Str63, Wei59, Bia91, BD97, Faß97, Fer97, Gau86, GZ95, HP76a, Hwa99, Sch95a, SW87, Sta77b, Ste69a, Wim74, Xu94, dHH87]. **orthogonaler** [Rut66a]. **Orthogonality** [Peh95, GLM91, Jia94]. **orthogonalization** [Qia88, Swe84, Swe91]. **orthonormal** [DV99, Ste82]. **Orthosymplectic** [LV97]. **oscillating** [AKS88]. **Oscillation** [DR75]. **oscillations** [Chi91, CCK95, vD73]. **oscillators** [GMF99]. **oscillatory** [Cla76, HL99, Won82]. **other** [Wyn60]. **outer** [NC93]. **output** [HO90a]. **over-determined** [Par62b]. **Over-Relaxation** [BV68, BK84, Bro64, Kje61]. **overdetermined** [Bra82, Sre69, Sre71]. **overflow** [Cha87, Cha88]. **Overlapping** [CSZ96, FS99, NN97]. **Overrelaxation** [GV61a, GV61b, ENR90, Kri83, NF69, Sar86, Sch74b, You71, Hüb72].

P [JBC92]. **Padé** [Cha84, Cuy82, Cuy83b, CV84b, CDL96, DD84b, DD84a, DMGVO96, FL70, Gut89a, Lub88c, Lub89b, SV75, SV76a, SV78, VC94, Wer86, Wyn66, vI84]. **Padé-approximants** [Cuy82, Cuy83b]. **Padé-Hermite** [DD84b]. **Padé-type** [DMGVO96, vI84]. **pair** [gS83]. **pairs** [Ves93, Zha96]. **Pairwise** [Bar91a]. **panel** [HN89]. **pantograph** [Kot99]. **Paper** [Aro63a, Ber60, Bra71b, Dou62b, Els69, Med71, RS65]. **Parabolic** [Cai91a, Cho90, Wal68, vFvH73, AF88a, AFW93, ACM99, And69, Aro63a, Aro63b, Axe77, BBG98, BW93, BB82a, BB82b, Car71, CP76, CZ98, CEL98, CL96b, Cro80, Dou60, DJ62, DD73a, EK99, FGM67, FJ75, Fet87, Gek78, GLM91,

GK80, GM68, Hai80, Höh82, Ish84b, Jov89, KM67, KP91, Le 80a, Lee61, LS92, MF64, Osb65, Osb67, Osb68, Pal99, Seg99, SO89, Tee64, TW83, Tom84, Voi74, Voi79, Vui90, Wid66, Žen89, Zou97, tMS86, vW77b]. **parabolic-elliptic** [Žen89]. **paraboliques** [Cro80, Le 80a]. **parabolische** [GK80, vFvH73, vW77b]. **parabolischen** [Wal68]. **paracontractions** [EKN92]. **Parallel** [CMR86, FM89, Fro89, Gar76, HJ90, LMR95, BDG97, CKL98, DPRW93, Heg91, Heg94, LRZ95, LH88, Nie89, Shr91, VB92b, Wri94]. **Parallelization** [DP88b]. **Parameter** [BB90, GI99, MI82, Sch94a, Arn81, Blu61, Dia80, GG87, GR86, GHMG85, Hüb72, nJyH99, Kal98, Lan64b, Luk93, MS78, MVW79, Ric74a, Sch99, Seo95, Zet70, Wol78a]. **parameterabhängiger** [MS78]. **parameterized** [DM96, Rhe88]. **parameternichtlinearer** [Wol78a]. **parameters** [DL97, DA86, EG94, HR79, LT98a, Man78b, SKL88, Zet70]. **paramètre** [Dia80]. **parametric** [Cle92, DD95, Pla96, Sak97]. **Parametrization** [MS85]. **Parametrized** [Had69a, FR84]. **parasitic** [Ver77a]. **Paraxial** [LMGR94]. **parmi** [Rob66]. **Parrinello** [BS98a, BS99b]. **part** [BK96, Bia90, EV97, GMP95, KR84, Kut75, ML98, Pag81, Coh60, GB86a, GB86b, GB86c, Sto97, Wyn59a, Wyn59b]. **Partial** [AU61, Kre63, vV77, Alb60, AU62, AD93, BSV68, BEHH75, CP76, CT91, DPRW93, GP65, HI71, Kap96, Koc95, Kre59, Lee61, LRT64, May65, Mer67, Par65b, SSVH87, Sch95a, Ste63, Str64, Tur78]. **partially** [Hsu61]. **Particle** [CMG90, DN89, LG76a, MGR87, Yse97a, Yse97b, Yse99a]. **Particles** [Yse99b, LG76b]. **Particular** [Cor77, OO98]. **partielle** [Kre59, Kre63]. **partieller** [AU61]. **partition** [Ros64]. **Partitioned** [BdP72, BSW88, GT82b, Ren85, SW84, Die87, Dry84, GT82a, Hai81, JO72, MV80, Rei97, Ste82]. **Partitionen** [RL66]. **Partitioning** [Ben62, Har62, Heg91]. **partitions** [RL66]. **pass** [CMR93]. **patched** [FG77]. **patching** [FMMS99]. **path** [GI99, MS85, TIK67, vGS84]. **path-following** [GI99]. **path-integral** [TIK67]. **paths** [SW99b, ZH93]. **patterns** [BH71a, Gor70]. **PCG** [Ser99b]. **PDE** [Cha99]. **PDEs** [HS97, AK99]. **Peaceman** [Ale76, Ale76, MF64]. **Peano** [Die96, Fie87, Jet76]. **Peano-kernels** [Jet76]. **Peano-Kernen** [Jet76]. **Peanokerne** [Fie87]. **penalization** [ABF99]. **Penalty** [Hua90, SB90, BE86, Har78, Hop81, Kik81, Kin74, Sch86, She92]. **penalty-finite** [Kik81]. **penalty-projection** [She92]. **pencils** [BMX98, Kub84]. **Penrose** [Lue79]. **Pereyra** [Hig87]. **Perfidious** [Coh94]. **performance** [GL87]. **Periodenverhältnisse** [Woh63]. **periodic** [AD93, BJ85b, Bao96, Bel83, BMM87, BS95, Boj93, Bro78, Cas81a, CD73, CR74, Dry94, DGP93, For75, For78, vG72, Had80, Hsu61, Hsu62, Jac85, JW88, KK74, KK76, Koß81, Kre71, Kre72b, NW84, Osb65, Osb67, Osb68, Tee64, TW80, Zen84b, Zha93, Zhe89, CSV68c]. **periodic-nonperiodic** [BMM87]. **periodischen** [KK74, KK76, Zhe89]. **periodischer** [Bro78, For75, For78, Koß81, Kre71, Kre72b]. **Periods** [Woh63, Tod90]. **Perturbation** [Bar93, CL71, EP94, O'C93, gS96b, gS98a, Sun68, Dei89, Her90, Nii84, Nii85, NS95b, NS96, Osb69, SU89, Ste93b, SO87, gS83, gS93a, WH86, CL71, Sau73]. **Perturbations** [AD73, AKK74, Gau86, HP92]. **Perturbed** [NW81, Sto97, Asc85, Del73, GMF99, NY83, O'R87, O'R84, Ste84, SO86, SO89, SS95, Ver98b, vV78]. **perturbées** [Del73]. **Peter** [GV88]. **Petrov** [FHLM88, MMS92, PR94, Web94]. **phase** [BB97, Mey70, MP92, NS91, VV98]. **phenomena** [Ste68]. **phenomenon**

[CP94b, GS95a, KN84]. **physics** [Dör66]. **Physik** [Dör66]. **Picard** [Nev90a, Nev90b]. **Pick** [AY83, KC93]. **Piecewise** [BSV68, DM88, FQ99, Hul71, Pre71, DP88a, DD74, GS95a, HHM76, Her70, JY93, Kiw94, Koh87, Koh88, Mel72, PR86, Ric78, Tou92, Vog83b, Wid77]. **Pivot** [Cry68]. **pivoted** [Ste99, Ves99]. **Pivoting** [DK77, Peñ98, vV77, vdS70a]. **place** [Heg94]. **Planar** [BS98b, CH86, Fri70, HP76a]. **Planck** [Lem98, DLD94]. **plane** [ADG84, DG86, GS96a, Rei91, Saa86, Sar88, SS88, Ste76a, Tho71]. **plaques** [DN86]. **plaquette** [Tor97]. **plaquettes** [Tor97]. **plasma** [DLD94, EJ81, Rap77]. **plastic** [Han92, RG88]. **plasticity** [Joh76]. **plate** [BDT88, Bre96, ByS99, Com85, Dur91, Joh73, Kut71, OP96, PS96b, Pow94, Ran79, Sch96, d'H93a]. **plate-bending** [PS96b]. **plateau** [Wil61]. **plates** [DN86, Ish79, NMC89, Pei91, Pit88]. **plus** [HJR88a]. **plusieurs** [Tis72]. **Poincaré** [Lev89, Sch94b]. **Poincaré-type** [Lev89]. **Point** [Dek71, Men88, MRMW90, Pic72, Wil60, Ale71, AM78, AKS88, BD83, Bak82, BWY90, BM87, Bla72, BF70, Bos71, CK82, DPR76, DMGVO96, DD73b, DD74, Fra76, Fra77, GS95a, GeN80b, GN66, IS96, IJ87, Jer89, KS99, Ley86, LR73, Men74, Mil81, Moc74, MO91, OA75, PPV69, Red73, RS76, Ren79, Şch73b, SD67, Sch75c, Son92, Ste98, SW99b, TS98, TIK67, Ura67, Whi77, XS92, Möl76]. **Points** [Sch63, BL81, BRR81a, BRR81b, DK83, GS96a, GR86, Hal60a, Hal60b, KZ74, KK97, Mor94, NR95, Pau81a, Pau81b, PS82, RP85, RO70, Row71, Sal60, Sch78b, Sey79b, Sey79a, SS78, SS80, SV79, Ste75b, SO89, VG88]. **points-convergence** [SS78]. **Pointwise** [Küp76b, Nii90, Noc89, Sch88b, SV79, KS89, Küp78, Nat75b]. **Poisson** [Bra81a, BH62, CR74, Lou79, Mey78, NS81, Rei89a, Shi78, Shi79, Sun95, Uhl62, ZG78]. **Poissonsche** [Uhl62]. **polarization** [Bao96]. **poles** [HSY91, Lub89b, SV75, SSV76a, SV76a, SSV76b, SV78, VC94]. **pollution** [BR88, RSSV97]. **Polya** [Dir69, Dir69]. **polygon** [Dry82]. **polygonal** [EJSS97, Hin96, KS98, YN93]. **polygons** [EG95, Lau98, Wil62e, vPS96]. **polyhedra** [Gre75]. **polyhedral** [AO76, AO77a, AO77b, GS98c, SD94, WW68]. **polyhedron** [MN68, Rat93]. **polynômiale** [SA84]. **Polynom** [BS70]. **Polynom-Nullstellen** [BS70]. **Polynomapproximation** [Pit73]. **Polynome** [Bro65b, Rei75, Ehr69]. **Polynomen** [Bra77, Ess60, Ker66, Sch82, Sik59]. **Polynomen.** [Sik61]. **Polynomgleichungen** [SD67]. **Polynomgleichungssystemen** [Dre77]. **Polynomial** [BS70, Coh94, HB59, Nic66a, Ric65, Sau97, Skr98, Uhl92, Ziv83, Akr88, Bak70, BH73, BM84, Car91, CK74, CK76, Din83, DD74, Dre77, DM88, ELR92, Els73, GH72, GMS95, Gut72, Hag87, HS69, Hul71, JT70, Jia94, Lam70, LSY87, MM67, MS95a, PL69, Peh95, Pit73, RS86, Ric78, SA84, SD67, ST91, SS65, Sha70, Sou69, Ste69b, Ste73b, VC92b, Wam94, Wid77, Wul73, Zul88, Lam70]. **Polynomials** [BS63, Ehr69, Ess60, Ker66, MRS95, NR68, Riv62, Sik61, TT94, AJS90, BD77, Bau66, Bea86b, Bet70, Boe64, Bra77, Bro65b, Car92, CR93, Dan66, Eie89, Eve64, Fro88b, Gau61, Gau86, GZ95, HP76a, HHM76, Hen79, IM94, Jia94, Kra86, LS87, Loc93, Mel99, Nør75, Peh95, Rei71a, Rei75, Row71, Rus84, SV76b, SV77, Sch82, Sik59, Skr98, Ste70, Str63, Tsa79, Vog83b, Wei59, Wil59a, Wil59b, Wim74, Xu94, Žen70, vdS70c, Pit73]. **Polynominal** [Fre90]. **Polynoms** [Nic66a]. **polythermal** [CDV99]. **polytopes** [HS92]. **popularity** [BB62]. **porous** [Alt80, JK91a, VV98]. **portion** [BK96]. **Posed** [Dem87, CRZ99, ELP90, Han91b,

HNS95, Hào94, HA98, nJyH99, Kal98, Kin92, Kol78, Lam91, Nat77, PV90, Pla96, RvdS90, Rie97, Sch93, Sch98, Sch87d, Sch88b]. **posedness** [GP85]. **positiv** [Kna71]. **positiv-definiter** [Kna71]. **Positive** [AR85, DE94, EHM94, Kna71, MW65, MPW65, MPW66, Nic74, Sch65, dBP77, All70, Bau65a, Bra85, Coh59, FP66, GK90, Had72a, Huc98, Mat96, NN87, Pet93, Spr76]. **positiver** [Spr76]. **Positivity** [Ask72, Zen84a, Hel68, PS96a, Sch70d]. **possessing** [CK74, CK76]. **possibilities** [Häm65]. **possibility** [Bra70, Spi76]. **Possible** [Sto62, Mir71]. **Possion** [ML90]. **postconditioner** [Jer85]. **Posteriori** [Auc92, BS63, AABM98, AF88a, AFW93, AC92, AO93, Ain96, Ain98, BB82a, BB82b, Bra94, CD98, Cha79, Fae98, Gut72, HMSW99, nJyH99, Kal98, Maî68, Moc75, Nov86, PR94, Sch96, Seg99, SW96, Sie96, Ver89, Ver91b, Ver98a, Ver98b, Žit89]. **Postscript** [Hou73]. **Potency** [vF70]. **potential** [Kes84, LT68, Mar90, Pie70, Pie72, Rat93, Sar88, Ver87b]. **potentials** [Hal77, Wen68]. **Potenzbeschränktheit** [vF70]. **Potenzreihenabschnitten** [Rei71a]. **pour** [Aus71, Bre75b, CR89, Cha79, Cro80, Del80, Del73, FM92a, FM92b, Gue94, Hai77, Le 80a, LV84, Néd82, Pau81a, Pau81b, SP72, Tro90]. **Powell** [Sch81b, Sch81c]. **Power** [Lub88c, Nev90b, BN90, BL93, CD72, DML83, DVZ98, Kun74, Mil67, MSW92, SS65, Tho90, Wil87]. **power-bounded** [Mil67]. **power-boundedness** [DML83]. **Powers** [KV72, BP66, May85]. **practical** [BE87, Gau72]. **preassigned** [Gue88]. **Precision** [Dek71, CK74, CK76, DV97, Ish85, Pat76, Spe71, Sri94]. **preconditioned** [AL86b, EO99, Sta97]. **preconditioner** [Bre96, GC96, Hem98, Ste97]. **Preconditioners** [Fre90, AKP95, ELV91, GO94b, HV99, KS99, Yse90]. **Preconditioning** [KP95, Won92a, Won92b, Won93, Yse89, AL86a, AV89, Bra92, DK92, DC99, Guo99, Jia94, KKL97, MP96a, Man90, Peh95]. **Preconditionings** [HN90]. **predictor** [FH87]. **predictor-corrector** [FH87]. **Preisach** [HM89]. **prescribed** [Opf80]. **Presence** [Not93c, DP63, GK66, Rau86]. **Présentation** [Par73, Par73]. **Preserving** [DE96, AL93, BMX98, CM95, Cle92, DM85, FGM87, KjS95, Kio79, Len89, Mei86, PS96a, SKL88]. **pressure** [BN84, Jen91, KP90, Rua85, She94, ZL94]. **prewavelets** [BM92, FQ99]. **Primal** [BHR77, Ros64, Car99, Kle66, Mil85, Sch99]. **Primitive** [Fil64, BP79, BB62, Lew71, Vit75]. **primitivity** [HL64b]. **principal** [CM89, DD99, Die96, EP75, EP76, Hun72, Hun73, Kut75, Lyn85, Mon84, Mon87, PE72, Ver77a, Wes75]. **principe** [RM72]. **Principle** [Bit68, Bit71, Rut63a, Dan70, GS77, NW74, Pla96, RM72, Ste78b, YK88]. **Principles** [Ans66, Col61, Wer69, FG77, PS96b, RG88, Zen84b]. **Prinzips** [Rut63a]. **priori** [Gek78, GF73, Kos86, McA68, PR94, FJ72]. **priori-Schranken** [Kos86]. **probabilistic** [Gao89]. **probabilities** [Deá80]. **probability** [MO64]. **Problem** [BB90, Bre75b, Dem87, DRW81, Leh61, Mor74, NO68, Ort63, Ple76, PC83, SB90, Wat68, AU62, AY83, AT79, And71, Arn81, ASW80, AHS84, AKS88, ALS90, BL92, BV87, BV88, BL86a, BE86, BE87, BS91, BC91, BW95, BS99a, BP79, Bit91, BZ82, BH62, Bra66, Bra69, BD88, Bri64, Bro85, BEHH75, Car99, Cas85, CSV67, Com85, CDR98, Dei89, DH80, Döh82, DD73b, DD74, Dry82, EP99, Fei87, FN98, Fis93, FG89, FP90, FM92a, FM92b, GH92, GP79, Gol81, Gre82, Gre80, Gri75b, Haa60, Hac77b, Had71, HHM76, Han92, Han94, HS83, HL64a, HL65, Her90, HT95, HS70, HHZ94, HMW86, Ish84a, Jen91, Joc80, KM67, Kea68, KS98, Kik81,

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Quadratically [GvM91, VW79]. **quadratique** [Con80]. **quadratiques** [Tao84]. **quadratische** [Kle81b]. **quadratischen** [KR82]. **Quadratur** [Wit78a, För82, Gai70]. **Quadrature** [Bia90, BH90, Bra60, Dry94, Eck68, Hae63, Häm66, Loc73, LdD93, PS92b, SS97, Sch72a, Smi65, TM73, Won82, Akr84, AB85, AB84, BJ85a, Ban92, BR91, Ber72, BP98, Bor94, Bra73, Bra78, BS81, Bra85, BF99, Bro78, BS67, Cle71, CM89, Dic87, Die96, DV97, Egg92, EP75, EP76, Eng77, Fie87, For75, FP90, För93, Ghi68, GG86, Gün75, Häm65, Kam71, Köh95, KWW85, Lev82, Loc80, Lub88a, Lub88b, LK78, LG82, Mar70c, Mar73, MY79, MI82, Nik92, NV96, Not90, Not93a, Not93b, Nov88, OPS76, Pat93, Peh88, Peh90, Pin75, Pot78, Rat93, RJ72, Sab78, SD72, Sal75, Sch77b, Sch88a, Sik82b, Slo81, Slo88, Sri94, Str84, Wil64, Wit78a, vdS72, vS77, Gai70]. **quadrature-based** [Slo88]. **Quadratures** [KE82, Bar65, Bar68, DD99, För82, GM77, GK83, Kau81, Küt82, Mik70, Mon87, Pec74, Pet93, Ste66a]. **Quadratureverfahren** [Bra73, Bra78]. **Quadraturfehler** [Häm65, Hae63]. **Quadraturfehlern** [Häm66]. **Quadraturformel** [Mar70c, Mar73]. **Quadraturformelmethode** [Bra60]. **Quadraturformeln** [Bro78, Eng77, For75, Gün75, Jet76, Pau77, Sch72a, Akr84, AB85, Bra85, Eck68, Loc73, Loc80, Pot78]. **Quadraturverfahren** [Fie87]. **Quadrilateral** [LLS95, LZ80, Man84, cS84, ŽV95]. **Quadrilaterals** [WS59, Gai72, PS92a]. **Qualitative** [Gri75b, Sto97]. **Qualocation** [SW98, CS90, CS92, SW99a]. **quantitative** [Auz88]. **Quartic** [SBH84]. **Quasi** [BL94, CD72, CD90, Nit68, BN90, BM87, CC91, FN91, Hal60a, Hal60b, RH93, Ste61, Tro71, Zou99, Kle81a, Kle81b, BN90, BL93, GT82a, KS89, MO91, Sch74a, SG78]. **quasi-cyclic** [RH93]. **quasi-homogeneous** [Tro71]. **Quasi-interpolation** [CD90]. **quasi-Laguerre** [Zou99]. **quasi-linear** [Ste61]. **quasi-minimal** [FN91]. **Quasi-Newton** [Kle81a, Kle81b, GT82a, KS89, MO91, Sch74a, SG78]. **Quasi-Newton-Verfahren** [Kle81a, Kle81b]. **quasi-Newtonian** [BN90, BL93]. **quasi-newtoniens** [BN90]. **Quasi-norm** [BL94]. **Quasi-Optimalität** [Nit68]. **Quasi-Optimality** [Nit68]. **Quasi-random** [CD72, Hal60a, Hal60b]. **quasi-variational** [BM87, CC91]. **quasiconformal** [Wei80]. **quasiconvex** [Klo99]. **quasidegree** [LG82]. **quasidifferentiable** [Kiw84]. **quasihomogenen** [Tro71]. **quasikonformer** [Wei80]. **Quasilinear** [Ans69, Tör63, vFvH73, ACM99, AU62, Axe77, Kos85, Lub92a, Mil85, Moc75, Wer68]. **quasilineare** [Ans69, vFvH73]. **quasilinearer** [Kos85, Tör63]. **Quasisolenoidal** [Rua85]. **quasistatic** [BL86b]. **quaternion** [BGBM89]. **quelconque** [LL85]. **quelques** [Con84]. **Question** [Ans66]. **Questions** [BL90]. **queueing** [Cha87]. **queuing** [Cha88]. **Quotient** [Rut63b, Eck76, gS91, See82]. **Quotient-Difference** [Rut63b, See82]. **Quotienten** [Rut63b, See82]. **Quotienten-Differenzen-Algorithmus** [Rut63b, See82]. **quotients** [McA68, Wyn66].

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DA71, EHG89, Fis61, Hal60a, Hal60b, HI71, Lam80, LSY87, LMS77, Mar70a, Nie85, Web91]. **randomized** [Ste95]. **Randsingularitäten** [Nit76]. **Randwertaufgaben** [Ess77, För67, GS74, ST73, STR76, Spr76, Tro76, Vos75, Wen68, Wer69, Ber59a, Ber59b, Bey78, CS59, EN80, GKR86, Hei89a, Leh60, Sch66b, Tre62, Vol86, Wit78b, Wit78c]. **Randwertproblem** [Leh61]. **Randwertprobleme** [Kos85, vFvH73, NY83, Pet70]. **Randwertproblemen** [Nit69b]. **Randwertproblems** [Lan87]. **Rang** [Kle81a, Kle81b]. **Rang-Eins-Typ** [Kle81a, Kle81b]. **range** [Car71, DP88b, EHG89, SS76, Küp76a, Küp78]. **Range-domain** [Küp76a, Küp78]. **Ranges** [vF70, Tay69a]. **Rank** [BNS78, Bra82, FH95, Kle81a, Kle81b, Sto84]. **rank-2** [Sto84]. **rank-one** [Kle81a]. **rank-one-type** [Kle81b]. **rank-revealing** [FH95]. **Raphson** [Lan66]. **rapid** [VI86]. **Rapidly** [Lei71, AKS88]. **Rate** [CDR98, Not93c, vdSvdV86, AL86b, CGK92, GT67, LP95, LE81, NN97, Tá76, Rit80, Ser99b, WFS95]. **rates** [BD77, Han97, Las92, Sch93, Utr85]. **Rational** [CS66, CFH68, Hwa99, MW60b, Ral65, RB68, Ric65, Tre81, WSB67, WB69, Ziv83, Zur64, AAG79, Arn80, Bar84, BL78, Bla77b, Boe64, Bro65a, BL67, BS68, CL61, CL62, Cla76, Cla78, Cle92, Dun67, Dun68, Gol63, GMH81, GM83, Kim98b, Lam70, Law64, LL85, Lub88c, Lub89b, Lun85, Nør75, Pom68, Riv62, Sac72, SSV76a, SSV76b, SVN76, SL86, Sak97, Sch83, Sch88b, Sto61, VB92a, VB92b, VG88, Wei92b, Wer72, Wuy71, Wuy73, Wyn60, Wyn62, vdGK86, Bla77a, Bra74, CS68]. **rationale** [Lam70, MW60b, Wyn60, Bla77a, Bra74]. **rationalen** [Arn80, Bar84, Bro65a, BL67, BS68, Sto61, WB69, Wer72]. **rationaler** [Bla77b]. **rationnels** [AAG79, LL85]. **Ratios** [Sto62]. **Raum** [Sac73]. **Räume** [Ale71]. **Räumen** [Ade69, Ans73, Boh67, Dör70, Sch78c, Mey84b]. **Raumkurven** [PS82]. **Raviart** [BCS96, Cha99]. **ray** [Lou86, LR89c]. **Rayleigh** [CL75, Mer91, Mer92, CL75, JT70, KL83, Mer91, Mer92, OA75, PV72, gS91, Žit89]. **re** [Ste93a]. **re-entrant** [Ste93a]. **reaching** [Cro78]. **reaction** [ASS88, BS91, BW95, LO98, Pao85, Pao98, SS95, Ver98b, YM86]. **reaction-diffusion** [ASS88, BS91, BW95, LO98, Pao85, Pao98, SS95, Ver98b, YM86]. **Real** [AR85, BD73, BMPW66, Dir69, PW70, BMX98, BM84, Car72b, Coh60, DD78, Dol81, Har82, HP92, vK66a, Kem68, Kup71, LMPY85, Loc93, MPW70, MS78, Rut66b, SSV76a, SSV76b, Ves76a, Ves79a, VW79]. **real-valued** [Car72b]. **Realistic** [SW80]. **receiving** [Gor70]. **Rechenanlagen** [Sch61d]. **Rechenautomaten** [Lin62, Nic66b]. **Rechengeräte** [Kar61]. **Recherche** [Rob66]. **Rechteckgittern** [Tör63]. **Rechteckregel** [Kre72b]. **rechten** [Tro71]. **reciprocals** [Kun74]. **reconstruction** [BLLN95, GH84, Nat85]. **recourse** [Kal74]. **Recovering** [GS95a]. **recovery** [AS97a, CL97, IS96, MRW76]. **rectangles** [Die87, Fer97]. **Rectangular** [HN90, Tör63, CMR86, Dur90, Hof67, MT78]. **Recurrence** [Met65b, Cas77, Cas80a, Lev89, Müh79, Oli67, Oli68a, Oli68b, Met65a]. **recursions** [Mat80, Sch75b, Wyn66]. **Recursive** [Dij60, Lei71, Oli67]. **red** [Ale82a, Bra92, Par88]. **red-black** [Ale82a, Bra92, Par88]. **Reduced** [Mel72, EGS94, GT84, HV64, MK80, PS96b]. **reduced-shear** [PS96b]. **Reducibility** [Hil83]. **reducible** [BJ85a, BNZ72a]. **Reducing** [EB68, BR88, Ebe70]. **Réductibilité** [Hil83]. **Reduction** [GN66, MW68b, MW68d, BV87, BV88, KW99, LB97, Rei89a, Run70, SSVH87, Sch70d, STR76, VC92b, ST73]. **réduit** [MK80]. **Reduktionsverfahren**

[ST73, STR76]. **redundant** [Gre75]. **reelle** [Dol81]. **reeller** [Kup71]. **reentrant** [BR88, Qun91]. **REENTRY** [Mar75]. **REENTRY-Problem** [Mar75]. **refinable** [HSS96]. **refined** [EW92]. **Refinement** [GW66, MPW66, AL96, BS98b, ELV91, Mat93a, Mat93b, Pav94b, Rei88, Sie96, SS98, vV76]. **refinements** [AM78, BKP79, Sty81, Tha76]. **Reflections** [Cup84, RW85b]. **reflector** [KO98]. **reflexive** [Pie72]. **reformulation** [Van79]. **Regeln** [See82]. **Regelungssysteme** [Tau76]. **region** [CM70, Dry82, LR89c, xY95]. **region-of-interest** [LR89c]. **Regions** [SSS86, Sar96, Bra77, CM62, CH86, DHP99a, Die87, Dry84, Fri70, HP76a, JO72, JT76, MT78, Opf80, PPSS97, Rei91, RW85b, SV76b, SV77, Shi79, Str67]. **regression** [CP70]. **regula** [PP81]. **Regular** [AV85, Kul68, KM98, Ple76, BS98b, CV84a, Els89, Föß89, Lor92, Sch80b]. **reguläre** [Kul68, Sch80b]. **Regularisierung** [Nat77]. **Regularities** [Mar70a]. **Regularity** [LMPY85, LS87, Tom84, Auz88, TW68]. **regularization** [DA86, EG94, FH87, HHZ94, Jer85, nJyH99, Kal98, Luk93, PV90, Rie97, Nat77]. **regularized** [HV99, Sch93]. **Rehabilitation** [DH89]. **Reibung** [Tau76]. **Reissner** [Pei91, Pit88]. **Rekursionen** [Sch75b]. **Related** [MW68b, CL97, Die96, Faß97, Jer70, Kau81, LTT92, Man85, Rap84, SS78]. **relatifs** [Rom85]. **Relation** [PC83, BS77, DKS90a, DKS90b, He97, Hod67, JT70, Lam70, Müh79, Nit62, Sto77]. **Relations** [AR85, Cas77, Cas80a, Lev89, Met65a, Oli67, Oli68a, Oli68b, Wei92a, Met65b]. **Relationship** [Woh63]. **relationships** [PHP90]. **Relative** [O'C96, Oli67, And88, Dei89, EJ81, Wet70, Rom85]. **Relative-error** [O'C96]. **Relaxation** [Alb61a, BV68, BS97b, BK84, Bro64, Hod67, Kje61, Klo99, MQ89, Tay69b, You71]. **Relaxationsverfahren** [Alb61a, AV76]. **relaxed** [Li97]. **Reliable** [GMH81, YK88]. **remainder** [Akr88, BG76a, FP90, LM70, Mar70c, Mar73, Mei66, Pet93, Sch77b, vdS72]. **remainders** [Bar65]. **remark** [Bra71b, EHG89, Els73, SF86, BS60, Bul64, Els69, Red67, Rut60, Sch64b, Wal67, Zur63]. **Remarks** [Bau69, ER67, GG87, GHMG85, Han64, She94, NR92, For68a, För82, Gue94, Had72a, Had72b, Smo90]. **Remarques** [Gue94]. **Remes** [Car72a, Lau67, Ral65, Car72a]. **Remes-algorithm** [Car72a]. **Remez** [BL70b, NS83b]. **Repeated** [Jac85, Bra92, MI82, Ste66b]. **Report** [BBG$^+$60, PS59, vWMPK69, BBG$^+$63]. **representation** [Bit70, Che79, Coh59, Kan73, Lin62, Mar70c, RS86, Sch77b, Wal89, Che79, Mar73]. **representations** [Hom95, Mor80]. **representing** [HSY91]. **reproducing** [CK74, CK76]. **requiring** [Kle65]. **Residual** [gS97, gS98b, AO93, FN91, Jia94, Oli80, Peh95, Stu85a, WFS95, Woh99]. **residuals** [hDxY99, Pyt02]. **Residue** [Fel61, Kre71, BS70]. **Residuenabschätzung** [BS70]. **residues** [CD72]. **Resolution** [ML90, Tsu88, Yse99a, Del73, JLR70, Leg66]. **resolvent** [Mil67]. **Resommation** [Tho90]. **Respect** [KS73, BL81, Gar96, Kri64, Nit70]. **response** [BMR96]. **restart** [Kle81b, Kle81b]. **Restart-Varianten** [Kle81b]. **Restglied** [Kre71]. **Restgliedabschätzungen** [Pot78]. **Restglieddartstellung** [Mar70c]. **Restgliedes** [Mar73]. **Restklassenabzählung** [Fel61]. **restricted** [Kuh93, Sto84, Tay69a]. **résultats** [El 82, DGB80, FM92a, LV74a]. **Results** [LV74a, Bar93, Ben64, BLLN95, BS66a, DGB80, El 82, FM92a, FH90, ID86, Kri83,

Le 82, LMPY85, LS87, Mat93a, Mei97, PV72, Sch95b, SWB91, Wer82, Wit89]. **Resummation** [Tho90]. **retarded** [Arn84, FG73, GF73]. **retournement** [Pau81a, Pau81b]. **revealing** [FH95]. **Revised** [BBG+63]. **revisited** [OP96]. **Riccati** [DE94, DE96, Las92, O'R87, Raz79, gS97, gS98b, fX96]. **Richard** [Cia98]. **Richardson** [Sch75b, BLR86, FR88, Föß89, GV61a, GV61b, GO88, Sch75b, Sid82, Sid90, Zaw91]. **Richardson-Extrapolation** [Sch75b]. **Richtmyer** [PSS84]. **Riemann** [BS97b, DM96]. **Right** [OP64, CR94, Man78a, Ste90b, Tro71, Vog83b]. **Right-Hand** [OP64, Man78a, Ste90b]. **right-inverse** [Vog83b]. **Rigorous** [CKP95]. **Ritz** [Ber59b, BS60, Mer91, Mer92, Nit69b, Ber59b, BS60, CH71, CGH76, CL75, Goë68, Leh60, Mer91, Mer92, Nit69b, Nit76, OA75, PV72, Şch73b, Şch75a, SF86, Žit89]. **Ritz-Approximationen** [Mer92]. **Ritz-Verfahrens** [Mer91]. **Ritzschen** [Leh60, Nit76]. **RK** [NS95b]. **RK-methods** [NS95b]. **Robert** [GB71]. **Robust** [KW96, Ver98b, Reu95, Ste97, WKW97]. **Robustness** [Ste93a, Egg84, Zha95]. **rods** [AR93, Cha97]. **Roe** [BS97b, DM96]. **Roe-type** [BS97b]. **Romberg** [BF99, Bul64, Hun73, Jet84, LM69, Mei66, Rut63a, Sch70c, Str73b]. **Romberg-Integration** [Bul64, Jet84, Sch70c]. **Rombergschen** [Rut63a]. **Root** [Lar81, BWW73, CR93, HP76b, HP77, PS84, Ver77a, Yam66]. **root-finding** [BWW73]. **Roots** [BH60a, Nic66a, Uhl92, BH61a, Bau66, Bra77, BB62, Car91, Dan66, Hou68, Sou69, Ver77a, vdS70c]. **Rosenberg** [May86, Mil80, Rob76]. **Rosenbrock** [KW81, NW79, RRS89, Roc88, SWB91]. **Rosenbrock-type** [KW81]. **Rosenbrock-Wanner** [RRS89]. **rotationally** [Lus96]. **Rotations** [Rat82, Ste76a]. **Round** [GF73, Woź78]. **Round-off** [GF73, Woź78]. **rounded** [Kul71]. **Rounding** [Lod70, Not93c]. **Roundoff** [Mil77]. **routines** [DLO+77]. **Row** [Bau65b, Fer89, Mar69, MO68, Gün98]. **rows** [Peñ98]. **Rückkehrpunkten** [PS82]. **Ruhelage** [Tro71]. **Rule** [Bia90, RS90, AB87, AD64, BD83, EP75, EP76, Fis61, SB83, Sri94, dV93, Kre72b, See82]. **rules** [AF89, Bor94, Bra78, BNvW89, CK74, CK76, Cor77, CM89, Die96, GI99, LK78, LG82, Mei66]. **Runden** [Lod70]. **Runge** [DKS90a, ASW93, BZ85, BSW88, CGPM98, Cro79, Cur70, DKS90b, GW86, GMF99, Gug97, Hai82, Hai86, HISS90, HS81, Hun86, HS90, KR79, Kot99, KS91, Lub82, LS70, NW81, QYK99, Rei97, Ren85, SSVH87, Sch95b, Spi86, SW84, Ver88, Ver92, Ver69, Ver77b, VHS90, Zen86, Zen88, Zen97, Zou97, dHW75, vdH72]. **Rutishauser** [See82, See82].

S [Ano83a, Ano86, Cia98, JHW77, H. 73, Wil78]. **S.O.R** [NV80b]. **saddle** [BWY90, KS99, TS98]. **Samelson** [GB81, GB81, Ste70]. **Sample** [Bar91a]. **sampling** [Bit91, FGS95, GLM89]. **sämtlicher** [Dre77]. **Sard** [BG76b]. **satisfying** [CL96a, Mil67, Sik84]. **Saturation** [Gai70]. **Satz** [Wer62]. **Sauer** [GB71]. **scalar** [Bel83, Kac76, Kim98a, KC93, KNR95, LS95, MO78, Tro86]. **scale** [CGC95, Ho90b, Wal97]. **Scaled** [Bau63, Bau69, Bus68, Sha82, Sch81a, Šve70, Wei95]. **Scaling** [MO68, Ari98, Els84b, Ste84, vG80]. **scalings** [vGS84]. **scattered** [ST91, SW93]. **scattering** [KO98]. **Schaefer** [Bra71b]. **Schauder** [Sab78]. **Scheme** [Sch70b, Auz88, BR72, Cam70, CGH93, CC85, CL96a, DLD94, Dob89, GA92, GLM89, Grü97, Her90, Ish81, Ish85, Kil75, Kno89, LT98b, MO78, Nii84, Nii85, Nii90, O'R87, Reu88a, Reu88b, Sán75, SO87, SS95, VV88, YM86, Zer94, Rei71a]. **schemes**

[Asc85, BG94, BL97, BEN93, CL96b, Eis67a, EGH99, FF94, FB89, GK80, GS93b, Had69b, JK91a, JK91b, Jer70, Jov89, KMS99, KNR95, LMW84, LS95, Mir71, Moc76, NS95b, NS96, PS96a, Pit88, Rei75, Roh98, SSVH87, Sei63, Son92, SV79, Str73b, SO89, Sun68, Tho71, VV98, Wid66, ZG78, Žen89, IS96]. **Schichtenverfahren** [vW77a]. **schlecht** [Nat77]. **Schlüter** [MSF91]. **Schranken** [Bod68, Hae63, Häm65, Kna71, Kos86, Lin76, Nat70, Nat71, Tre62]. **Schritt** [Kle81b]. **Schrittweitenbestimmung** [Wer78]. **Schröder** [VG88]. **Schrödinger** [ADK91, Dör96, KL83, MPP99, RF94]. **Schrödinger-type** [RF94, MPP99]. **Schulz** [For68a, For68a]. **Schumann** [CS86]. **Schur** [Bre99, Dav62, GH95, KW99, Man90, WKW97]. **Schur-complement** [WKW97]. **schwach** [GKR86, Hav77, Kos85]. **schwachen** [Sch75d]. **Schwankungsbereiche** [Sau73]. **Schwarz** [Bad89, Bre96, Cai91a, CSZ96, DSW96, FS99, GO94b, GO95, Hac92, HR79, Mat93a, Mat93b, Mil65b, Pav94a, Pav94b, RKL89, Sar97, Zha92a]. **Schwingungen** [Tau76, Wer69]. **Scott** [CV94]. **search** [Ari98, DD78, GA87, Jar94, Sch81b, Sch81c, Rob66]. **searches** [Wer78]. **Sebastiao** [Hou73, Chu76, Hou71]. **Secant** [PQS98, MS85, Pot82, Ste73b]. **Second** [AF88a, Fun88, GV61a, GV61b, RR90, Rei90, Atk72, BO80, BDS80, BJ85a, BJ86, Bel83, Bra66, BDM85, BDDF87, BN81, CŠ79, CGT94, Cry73, Del73, DH80, DPRW93, EFM89, Fer97, GW95a, Hai79, HHM76, HS80, Het75, HL99, Hoc79, HvdR63, JO80, JS86, Küp78, Lau98, Lev89, Man85, Mid75, Mil85, Mor99, Nat69a, Pfl98, Ric78, Ser99b, SW96, Slo81, Son92, Spr76, Tho90, Van79, Wan89, Zlá69, Zlá70, dHW75, vdHtR81, Het74, ADK91]. **second-** [Nat69a]. **second-kind** [SW96]. **Second-order** [AF88a, BDS80, CGT94, HHM76, HL99, JO80, Lev89, Son92, Spr76, Tho90, Van79, Het74, ADK91]. **Secondary** [Sau63]. **section** [Mor72]. **sector** [Hee68]. **sectors** [GS96a, SVN76]. **secular** [Mel95]. **seepage** [RBS82]. **segment** [NSS86]. **segmentation** [CKSS97]. **segmented** [Law64]. **segments** [Rei71a]. **Seidel** [BdP72, EL88, Par88, RM72]. **Seiten** [Tro71]. **Selbstabbildung** [KS73]. **selbstadjungierte** [Ber59a]. **selbstadjungierter** [Kna71, Mer92]. **Selected** [Mar65]. **Selection** [BF90, NO68, Ain96, GI99, PS75]. **selective** [Sch77a]. **selektives** [Sch77a]. **self** [BG95, Fri70, HR94, Heg94, Jer70, Meh67]. **self-adjoint** [BG95, Jer70]. **self-contained** [Fri70]. **self-duality** [Meh67]. **self-sorting** [Heg94]. **Selfadjoint** [Kna71, Mer92, PCV96]. **Semi** [AGS98, GV61a, GV61b, Sch87d, ASW93, BD83, BE87, EMN88, Fis93, Gun64a, Hem98, Hod67, Lee61, LE81, MPP99, Rei97, Sim78, VV88]. **semi-circulant** [Hem98]. **semi-classical** [MPP99]. **semi-definite** [BE87]. **semi-direct** [LE81]. **Semi-discrete** [AGS98]. **semi-explicit** [ASW93, Gun64a, Lee61, Rei97, VV88]. **semi-implicit** [BD83]. **semi-infinite** [Fis93, Sim78]. **Semi-Iterative** [GV61a, GV61b, Sch87d, EMN88, Hod67]. **semicoercive** [Spa94]. **semiconductor** [CC95, DN89]. **Semidefinite** [Sch72a, Jet76, NN87]. **semidefiniten** [Jet76, Sch72a]. **semidiscrete** [Hel87]. **semidiscretizations** [Str86]. **semigroups** [Can71, Las92]. **semiinfinite** [Opf82]. **semiinfinite-finite** [Opf82]. **semiiterative** [ENV85, Eie89]. **semilinear** [BS99a, CMR93, EGH99, GS74, Hel87, LN99, Nii84, Noc88, SO87, SS95]. **semilinearen** [GS74]. **seminormed** [Mei67]. **seminorms** [LM75]. **semismooth** [PQS98]. **sense** [Vei60]. **Sensitivity** [BH92b, BHK94, HUY95, fX96, Gau86]. **separable** [DG98]. **Separation**

[Hou66, BB97]. **September** [GV88]. **Sequence** [Alb62, Bre85, Bre89, MVW79, Wim74]. **Sequences** [Ans73, Bra65, Akr88, Alb61b, Bre78, BS88, CD72, Del80, Gal89, GM92, Hal60a, Hal60b, MP99, Nik92, Ort86, SV76b, SV77, Tod88, Tro86, Van94, Her74]. **sequential** [EKN92]. **Serendip** [LL85]. **serial** [DA71, Har91, Nie85]. **Series** [ES88, CS94, DVZ98, Gab84, GeN80a, GeN80b, KL83, Kun74, Lub88c, MSW92, Nie80, Ren79, SS65, SK73, Sto83, Tho90, Ura67, Wil87, Wyn62, Mar70c]. **Set** [Att68, Har80, BY66, Car72b, CGC95, ES92, LPDT70, Mal99]. **Sets** [Red67, VL73, Alb61b, Ale86, Bau66, Bit70, CW79a, KL90, Whi77, Kup71]. **seven** [Gün75]. **seventh** [Str68]. **Seventieth** [Cia98, FV94]. **several** [Bou90, Gek72, Hsu62, KNR95, Nie91, Tis72, Wei59, Zwa73]. **shading** [LRT93, Tou92]. **Shadowing** [CKP95, Had96]. **Shafranov** [MSF91]. **shallow** [Red88]. **Shape** [ABFJ97, LRT93, AL93, CM62, DM85, GM94, NS91, SDK91, Tou92]. **Shape-from-shading** [LRT93, Tou92]. **shape-optimization** [SDK91]. **shaped** [Rei91]. **shaping** [PR93]. **Sharp** [BNvW89, Noc88, PP80, Har91, Yam86b]. **sharpness** [NV80b, SV76b, SV77]. **shear** [DN86, PS96b]. **sheets** [CDV99]. **shell** [BDT88, Man81a, Tro90]. **shells** [Man83, Pit92, RSSV97]. **Shift** [RB68, JT70, Leb70]. **Shifted** [Wit97, Bat90, DT71]. **shifting** [Lub88c]. **shifting-origin** [Lub88c]. **shock** [GW94, Yse99a]. **shooting** [BHK94, Deu74, DPR76, Deu79, DLO$^+$77, Lam91, Lin93, Lor80]. **short** [Dub70, Jet84]. **shortest** [hDxY99, Pyt02, vGS84]. **Shortley** [Auz88]. **side** [CR94, JW88, KK76, Sau84, Ste90b]. **Sided** [VH89, Spi76, Str82, Zha93]. **Sides** [OP64, Man78a, Tro71]. **sieve** [Rya67]. **Sigmoidal** [EV97]. **sign** [Kem68, KvdD77, Loi68, GK80]. **Sign-stability** [GK80]. **signature** [Bro65b]. **signed** [Str63]. **Signorini** [Han91a, Spa93]. **Silva** [Hou73, Chu76, Hou71]. **similar** [Wuy73]. **Similarity** [MW68d, Rat82, Por66]. **Simple** [BRR81b, BCD86, Dan70, SL86, SU89, SW80, Tsu88, Wen68, Zhe89]. **simplex** [AD64, Bar71, GT78, Hee68, Nag63, Str66]. **simplification** [Sty79]. **simplified** [Edd93, GHR97, Sch75b]. **Simulating** [Gün98]. **simulation** [Eng96, PR93, Kup71]. **simulations** [BS99b]. **simultanen** [Döh82]. **Simultaneous** [BH73, Car72b, Li97, Rut70, Ste76b, AV86, CR93, Chr70a, Chr70b, Döh82, Els73, Fro88b, Rut69, Sch84]. **SINC** [Ber89c, Ber89b, Bia90, MBL90]. **SINC-** [Ber89c, Ber89b]. **sine** [Bul67]. **Single** [CG67, AGS98, BS88, LG76a]. **single-step** [BS88]. **Singular** [BN78, BGBMN91, Cha73a, CI94, Dag90, GR70a, Lou86, Rei91, Tan71, AKK74, AS97b, Asc85, Atk72, BK87, BS99a, Cas85, Cha92, CVV88, CK82, CNV70, DP85, DP72, DK83, DP63, EMN88, Eis67a, Els84a, FP94, GI99, Gus73, Had87, Hav77, Her90, Her71, HP81, HC63, IJ87, Jam70, Jeg68, LRZ95, Li95, LT68, MS78, MSW91, MSW92, NC93, Nat69b, Nat75a, Neg90, Nii84, Nii85, NS95b, NS96, PR86, PS92b, RvdS90, Red73, RS76, RW85a, SU89, Sch87a, Sch91, SW92, Sco73, Shi78, SO87, gS96b, gS98a, Tan74, Tan92, Tsu88, Van85, Vas88, WA72, Won93, Wri92, Zha96, NY83]. **singuläre** [Nat75a]. **singulärem** [Jeg68]. **singulären** [Hav77, MS78]. **singulärer** [Nat69b]. **Singularité** [LV74b]. **singularités** [Tho90]. **singularities** [Gri80, Li86, Li87, MY79, Rei88, Tha76, Tho90, Tsu88, VH93]. **singularity** [BM96, LV74b, LdD93, Pet93, Sak97]. **Singularly** [O'R84, Asc85, NY83, O'R87, SO86, SO89, SS95, Ver98b, vV78]. **singularly-perturbed** [Asc85]. **singulière**

[RW85a]. **Sivashinsky** [Akr92]. **Size** [Cry68, Cle71, Hoc81, Yse99b]. **sizes** [Gol81]. **skew** [Paa71]. **skew-symmetric** [Paa71]. **slab** [MC88a, MC88b]. **slip** [Ver87a, Ver91a]. **slopes** [EM87]. **slowly** [Wyn62]. **Small** [MW60a, MW60b, Mar90, BL86b, BLR89, BZ82, BB62]. **Smallest** [MV68a, MV68b, Döh82, GK90, Tod65, Var64]. **Smith** [Med71]. **Smooth** [KM91, Ban87, BB97, LL80, MRW76, NR96, Owe77, Sar88, SP94]. **Smoothed** [LM91]. **smoother** [Ste94a]. **smoothers** [Wit89, Wit90]. **Smoothing** [CW79b, HdH85, Rei67, Rei71b, SB83, Utr85, Wah75a, AL68, AY93, Cul86, DA86, DR75, Dia80, EA88, HS86, Jou71b, LA88, LA89, SS90, dHH87]. **smoothings** [Par88]. **smoothness** [AS90, BNvW89]. **Sobolev** [GZ95, GK85, HM86, MM74, Nak85, Nit69a, Rie91, SA84]. **Sobolevschen** [Nit69a]. **solenoidal** [Dob89]. **Solid** [BB90]. **Solution** [AU61, Alb61a, Bar69, Bit64, BMPW66, BF66a, CM62, EB68, Ebe70, FR84, GW66, GK66, Har80, HS92, HI71, JK91a, Leg66, Leh61, Leh66, Lig90, MPW66, MW67, Mey83, Moc74, Nab92, OP64, Rei90, Ris74, SS79, Sch72b, SZ91b, Tör63, Tre62, Woź77b, Alb60, AM78, Alt80, Ama72, AM94b, And69, AR68, Ans63, Ans67, Ant72, Arn84, Atk67, Atk72, Atk73, AKS88, BV84, BL86a, BZ85, BP79, BH65, Bla72, BG78, BMR96, BF70, Bos71, Bra82, BHR77, BHR78, Bri83, Bro85, BF66b, BSW88, CR94, Car71, Cas77, Cas80a, Cha98, Cha74, CMR93, CM70, Chr70a, Chr70b, CS88, Cry73, Del73, Deu74, DPR76, DE94, DE96, DV99, DLO$^+$77, Dix82, Dou60, DPRW93, EMN88, Eis67b, EP95, EM91, FŽ87, FG73, FZ93, FL91, Gek72]. **solution** [GK85, GP65, Gun64a, Had71, Had87, HS80, Han91b, HL64a, Heg91, HW78, Hof75, Hop81, HS70, IU82, JLR70, Joc80, Kac76, KM67, KS71, Kle81a, Kle81b, KO98, KR82, Kra86, Kre68, KS93, LV75, LSW85, Lan87, Lan77, LP78, Lei71, LRT64, LT68, Man81b, Mas87, McC75, Mei86, Mei97, Mel95, Mer67, MM74, Mit78, Mit80, Mit81, Miy76, Mül79a, Mül79b, Mül80, Mül82b, NS81, NW73, OP88, Oli67, Oli68b, Osb65, Osb67, Osb68, Par62a, Par65b, Per66, PS75, Pfl98, RS70, Rak73, Ran84, Raz69, Raz79, RL81, RK84, Ren79, Rhe88, Sah85, SU89, Sar88, Saw82, Sch87d, Sch86, SK73, Sik84, Spi66, Spi76, Spi83, Spr80, Sta70, Ste72, Tha76, Tho75, Ura67, Van79, Vol86, Vui90, Wei92a, Wer68, Wer82]. **solution** [Wol78b, Yam75, Yam76, Zie85, dHW73, vdGK86, Arn79, Nit76, WH86]. **Solutions** [BG65, CS59, GR70a, Sre69, Tho90, vdS70b, vdS75, Ale86, ACP99, AS87, Ban87, BYI86, BS92b, Bel83, BP92, Bra69, BRR80, BG71, CD73, Coo71, CW78, DC74, Dre77, Egg86, FF94, FH95, GP79, Gre75, GeN80a, Hac77a, Hac79, Han82, Hüb82, Hwa99, Ish84b, Kar68, Kil78, Koc95, Kos86, Koß81, KM98, Las92, LMW84, Leh67, Lev89, LRT93, Lou79, Mar84, Mar70b, Mat80, McA68, MSW91, MSW92, NW76, Owe77, Pao87, Pao95, Pet70, Ral66, Rei91, RS95, RS88, RN98, Sar89, Sch93, Sch95a, Sch75c, Spr76, Sre71, Ste63, gS97, gS98b, SSBB88, Tan92, Tsu88, WZ95, YN93, Zha93, Zhe89, Zul88]. **solvability** [KS91]. **Solve** [CMG90, Pla96]. **solved** [MS95a]. **solver** [BL92, BS97b, BG94, CR89, DM96, KS98, SS84, Kir88, NR92]. **solvers** [Bör89, CKL98, GLC89, Shi79]. **solveur** [CR89]. **Solving** [AL85, Bau65b, BL90, Bol84, BM84, GP71, Gol65b, GO88, Gut81, He94, Hig87, HB60, Ise84, JM87, Kin73, Opf82, Tan71, Woź77a, Alb61b, Ans64, Ban78, BWY90, Ben62, BH61b, Bra81a, BRS92, BZ94, Bus77, CT91, Die87, DH80, Dob81, Eyd84, Eyd85, Fer97, FG89, Gir76, GeN80b, Gus73, GNV86, Hac77b, Had69b, HHM76, HP75, Ish81, Ish85, JS95, JN81, JN82a, Kim98a, Krä89, LV84, Li86, Li87, LS87, LH88, MS78, MS72, MS73, MF64, MO91, Müh85, NS95a, NV80a,

PV90, Rua88, Sch98, Sep72, She77, Sta77b, Ste73a, Ste90b, Sun95, Tan74, Tee64, TL91, VC92b, Ves76a, VI86, Wil62e, Woo68, ZH93, Zlá69, STR76, Tro76]. **Some** [BBFS90, BH60b, Ben64, BL90, Bit70, Bro64, Bro68, El 82, FGM67, FP66, Fis61, FH90, GL86, Gar65, Gre62, HS69, Hun72, JTW89, JM78, Kri83, Kul68, Lyn63, May65, NR92, RO70, Sal61, SZ61, Sha67, Sik61, Son93, Ste90a, Ste69b, Ste73b, Str66, Str67, Str68, Ver69, Ves76b, Wer82, de 95, AJS90, All70, Ans64, Asc85, Ask72, Bre72, Bre78, ES90, ELP90, EO99, Fie87, Had69b, HW84, He97, JS95, Kal98, KV85, MNS74, Mar69, McA68, MV80, Mor80, Müh78, Nak85, NN97, NV80b, PW93, Pao87, Pit88, RKL89, RW88, Saa86, Saw82, She92, SG78, Sto83, Tho71, Zen72, Zlá69, Eck68, Gri85, Had69a, Tao84]. **Somme** [Pic72]. **Sommerfeld** [Fis93]. **Sonderfälle** [Rut63b]. **SOR** [AV76, Ale82a, EKL91, EL88, HP94, NN87, Nic74, Nie89, PHP90]. **sorting** [Heg94]. **source** [KjS95, Mey84a]. **source-free** [KjS95]. **sowie** [Mül68]. **Space** [DRW81, KS73, Lau67, LH66, MRMW90, Sac73, SW62, Ale71, BHK+85, BL81, CP76, Dör96, Dou62a, FDD92, GM66b, GN66, KNR95, LPDT70, MBL90, Nak85, PS82, RF94, Rou87, Seg99, Sto64a, TW83, Yam68]. **space-adaptive** [Dör96]. **Space-Homogeneous** [MRMW90]. **Spaced** [Dag90, Cul86, DP88a]. **Spaces** [Ade69, Ans73, BF90, Kra68, Ley90, LW99, Yse86b, Ale86, AS90, BG78, Boh67, Bro78, CGH76, CK74, CK76, DD74, DDW75, DM88, Gal89, GZ95, GT72, Gue86, IS96, LW82, Mei67, Mey84b, MM74, Mil80, MO91, Nit69a, Pie70, Pie72, Rie91, Rob71, Sal64, SA84, Sar97, Sik82b, Söd86, Vog83b, Yam87, Yse86a, Yse90, Zen84a, Zen84b, Dör70, Sch78c]. **span** [HL97]. **spanning** [Wil62e]. **Sparse** [ADdR89, ER74, GOS99, Pot89, BHK+85, Bjö88, GO94b, Hal92, Hei89b, Mil77, Pfl98, Sad93b, Ste99, Zha96]. **spatially** [KP91]. **Special** [Hee68, Rut63b, BJ89, CMW63, Deu79, Dör66, vK66b, Mil65a, Mor80, Sch75b, Sha67, Sid82]. **Specific** [BD68]. **specified** [MO68]. **SPECT** [BS97c]. **Spectral** [BMM87, CHL85, Dut99, Hei89b, Hen62, PL69, Sac88, BDG97, CMQ84, CDR98, CGR90, Des63, Fis93, Fun88, GH84, HP92, Kub84, Lyn63, MQ81, MP96a, MV69, Mel99, NV80b, OD95, RSSV97, SV90, Sch80b, Wei92b, BK96]. **spectrales** [BK96]. **spectre** [Cha73b]. **spectrum** [Cha73b, EJ81, Rap77, Ste75b]. **Speed** [RS90, Dix67, Soc88]. **Spektralradius** [Sch80b]. **Spezialfällen** [Sch75b]. **speziellen** [Dör66]. **Sphäroiddifferentialgleichung** [SG62b]. **sphere** [Str68, Tis72, Tis72]. **spherelike** [ST91]. **spheres** [FP93]. **spherically** [Gau84, GM86, Kre68]. **Spheroidal** [SG62b]. **Spline** [Ben86, BM92, CS90, CS92, CM92, Dag90, Gai70, GM86, IJ87, Nat70, Nit69b, Sch73a, Sch87a, SW99a, AS90, AL68, Ant72, AW85, Att68, Bia91, BD97, Bra71a, CW79b, CS98, DP88a, DGM88, DR75, Dia80, DP82, DM85, El 79, EA88, Fer97, FGM87, vG72, Gün94, HS86, HdH85, KP95, KKL97, LBF98, Mar73, Nie73a, NS83a, NS83b, NR95, Pow94, PR86, Rei84a, Rei84b, RS86, Rei89b, Rei67, Rei71b, Ren80, RF94, SL86, SKL88, Sar88, Sar89, Sch91, Sun98, Utr83, Wah75a, dV93, Att68, Mar73, Mül79a, Mül79b, Mül80, Nat70]. **Spline-Approximation** [Gai70, Nat70]. **spline-functions** [AL68]. **Spline-Funktionen** [Mar73]. **spline-in-tension** [SKL88]. **Spline-Interpolation** [Nit69b]. **Splineapproximationen** [Mül79a, Mül79b, Mül80]. **Splinefunktionen** [WH86, Ant72]. **Splines** [KRV74, Tha90, AGS98, AY93, AD74, BS79, Boj93, Cha73a, Cul86, Els84a, Gme87, HS79, HP81, JS91, KK97, LA88, LA89, Luc70, Man72, MP96b, Mül82b, NSSS83, OO98,

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[CP94a, DGM88, RS95]. **supraconvergence** [MS95b]. **supraconvergent** [GA92]. **Supremum** [SS62]. **Sur-decomposition** [Gas63]. **surds** [Fra62a, Fra62b, Fra63]. **sure** [AY93]. **surface** [MW99, RBS82, SDK91, SW92, Str68]. **surfaces** [CKSS97, Dzi91, HMS99, Hin96, KO98, ST91, Wil62e]. **survivable** [SD94]. **Swiss** [HS91]. **switching** [Sey83]. **Symm** [JY93]. **Symmetric** [MBW67, BMRW68, BCS96, BKP76, BNS78, Com59, Cup81, DK77, DH93b, Huc98, KM86, Leh66, MW65, MPW65, MW67, MW68b, Ort63, RB68, AV76, Ale82a, AL76, Ber84, CR94, CKL98, Dub70, ESR82, Gau84, GM86, HP76a, Hal77, HUY95, vK66a, KK97, Kre68, Les73, LR89b, LK78, MRW68, MRW70, MGR87, MS67, Mis84, Moc76, Paa71, PW84, RS63, Rut66b, Rut70, SS76, Sch68c, Sta81, Str73a, Str67, Ves76b, Ves99, Wag97a, Wil62a, Wil62b, Wil62c]. **symmetries** [Rau86]. **symmetrischen** [AV76, Com59]. **symmetrischer** [Leh66]. **symmetrizable** [EGS94]. **symmetrizers** [BC92]. **Symmetry** [Meh67, vFvH73, VC92a]. **Symplectic** [McL94, MP92, BMX98, Cas96, ESS92, Rei97, jS99, Sto97]. **synthesis** [Bou90, Mey75]. **System** [AL85, ADdR89, CMG90, Maî68, MPW66, Tan71, BG71, BEHH75, Dou60, GLC89, Hil83, KP91, LG76b, LV75, Pao85, SFR93, Tan74, Wam94, Wil62e, Yam75, Yam76, Men74]. **systematic** [MO78, Mey75, Tay69b]. **systematically** [Cle71]. **Systeme** [AU61, Bey78, Mar75, LV75, Hil83, Maî68]. **Systemen** [Ans63]. **systèmes** [HW87, Leg66]. **Systems** [ABS84, Alb61a, BH92b, BE73, BMPW66, Bra65, Due59, GP71, GO88, HN90, Hig87, HB60, Kin73, Leg66, LM66, NP78, SV93, Wal67, Woź77b, dBP77, vdS70a, vdS70b, AKK74, AF88a, AFW93, AU62, AV86, Ans63, Aro63a, Aro63b, BD83, BMPS99, Bar91b, BS97b, Bey78, BK98, Bia91, BMR96, BS96, BS97c, Bra82, BRS92, BZ94, BRZRS98, BZS99, BSW88, BM84, Bus77, CR94, CGR94, Cas80b, Cas81b, Cas83, CEG83, CL96a, Deu74, DHZ87, Dre77, ENV85, EMN88, EGS94, EM91, FR88, FGN81, FN91, FZ93, Gas96, GM66a, GM66b, Gov90, GNV86, Gut89b, GH95, Had87, Heg91, HJ90, HW87, HMSW99, HMW86, JK91a, JM87, JS95, JT76, Kac84, KjS95, Kar68, KS92, KL90, LRS91, LV97, LSY87, LS87, Lub89a, Man77, MS96, Mar75]. **systems** [MS94, MGR87, MT78, Men88, MP92, Mis84, Moc76, MSW91, MSW92, Müh85, NN87, NV83, NS95b, NS96, Pao87, QYK99, Rei97, Roh98, Rus74, Saw82, Sch94a, Sch64a, Sch95b, Sch79b, jS99, SG78, Ste73a, Sto97, Sun98, TT87, TK64, VC92b, VI86, Wer68, Woź78, Wyn66, Zen97, ZH93, Zul88, Tau76]. **Szego** [Not90, Not93b, Par62a].

T [Bla77b]. **T-Approximationen** [Bla77b]. **table** [Cla78, Cuy83a, Gut89a, KZ74, Wyn66]. **tableaux** [Nag63]. **Tables** [BP85, Lub88c]. **take** [ABF99]. **Tangent** [Kin72]. **Tangential** [Wag97a, Wag97b]. **tau** [Sac88]. **Taylor** [BG76a, BK98, CW71, Hul71, Ren79, Wal98]. **Tchebycheff** [CG59, Peh90]. **Tchebychev** [Ho90b, Man77, Man78b]. **Tchebyscheff** [Sti60]. **Technique** [Dek71, FH87, Gun64a, Ho90b, Jou71b, KP91, Oli68a, PZ99, RL81, SDK91, Wuy71, Wyn62]. **Techniques** [DK77, BBFS90, BR88, Boh80, BRZRS98, BG71, BHK94, DPR76, Deu79, ELV91, HW84, HN92, Mei97, Opf80, Opf82, Rei82]. **Technische** [Ano83b]. **Technischen** [Sau67]. **tée** [Rom85]. **tées** [CR89]. **Teil** [Hav77]. **temperature** [CDV99, Zhe89]. **Temperaturregelung** [Zhe89]. **temporal** [ADK91]. **temporally** [KP91]. **tension**

[SKL88]. **Tensor** [RR90, Ban78, LRT64, SSS99, ST91]. **Tensorial** [Laf75]. **tensorielle** [Laf75]. **ter** [Kos85, Rut60]. **term** [Cha98, FP90, LM70, Mar73, MS99, vdS72]. **termination** [Ari98, BS77, Sto77]. **terms** [BNvW89, Mey84a, Vas88]. **test** [Loc93, Nie85]. **testing** [KvdD77]. **tests** [Fis61, Mat90]. **th** [ELR92, Rut60]. **th-degree** [ELR92]. **their** [Alb61b, Bit70, CK82, CZ98, Chi99, Coc65, FR84, GP65, He97, Hen79, KM91, KM98, Lub94, Mon87, MS95b, Par65b, Rob71, SU89, Sch66b, SW84, Utr83, Won84]. **Theodorsen** [Gut81, Hüb82]. **Theodorsen-Gleichung** [Hüb82]. **Theorem** [GH66, Akr80, Ale71, BDS80, Car91, Dav70, Dei89, Els73, GT84, GK72, Had96, HVW70, LM99, Lub88c, May86, Mil80, Osa96, Osb69, Par62a, Rob76, Sch65, jS99, Ste67, Sto63, Sto64b, Tou92, Tsu99, Wet60, Yam86a, Yam87, ŽV95, wEC86]. **théorème** [Rob76]. **Théorèmes** [Lau67]. **Theorems** [BF60, BD68, SS62, BG76b, Bit70, CDL96, Dic87, GP85, Gro89, Hof75, Hou66, HL60, MS90, MO64, May65, MV80, MN85, Mor72, SV76b, SV77, SSS86, Son93, Str84, Stu85b, Tom84, Lau67]. **theoretic** [Har62, HL64a]. **Theoretical** [Pau81a, GS77, MD77, MK80, Per99, VV98]. **Theorie** [Com59, Hof69, NW73, Sik61, Wyn60, DD84b]. **théorique** [MK80, Pau81a]. **Theory** [BV68, CSV69, Com59, DD84b, Geu82, Hof69, Nic74, O'C93, Sik61, Sto77, Ura67, Agu89, AK99, Alb85, BG76a, BY93, BHR77, Bro64, CL71, DLD94, FGS95, FŽ88, Gao89, GO95, HW76, HW84, Ksc68, Lub82, LT68, Mat93b, Mis84, NN87, NW73, NV83, PSS84, Ran79, Sep72, Ser99a, Sun68, Uhl97, Wei63, WH86, Wit90, Wyn60, HV99]. **thermomechanical** [NS91]. **thickness** [HC92]. **thin** [Ain98, KW96, Pow94, RSSV97, Tro90]. **thin-shell** [Tro90]. **Third** [LT98b, Bul69a, KM67, Kea68]. **Thirteen** [Ske86]. **Thomas** [BCS96]. **Thomas-type** [BCS96]. **Three** [Deá80, Smi91, AG88, BDDF87, CKSS97, Dou62a, DSW96, EP86, For85, Han91a, Han94, Heu98, Heu01, HH99, JT70, KZ74, MT78, MS99, Rua85, Son92, Ste98, Zla81]. **three-dimensional** [EP86, For85, Han94, MT78, Rua85]. **three-ordinate** [Zla81]. **three-point** [Son92, Ste98]. **three-stage** [JT70]. **three-term** [MS99]. **Tightening** [Ber59b, Ber60]. **Tikhonov** [nJyH99, Rie97, Sch93]. **Time** [LS92, Sch86, Bar91b, BS97b, CGC95, CZ99, Dör96, Fag82, FF94, FN72, Gek78, GS93b, Höh82, JN81, JN82a, JN82b, JK91b, Kau89, Lub94, Mon92, NV96, Pal99, PB81, gS98b]. **time-** [Dör96]. **Time-dependent** [Sch86, BS97b, CZ99, Dör96, Fag82, FN72, GS93b, Pal99]. **time-harmonic** [Mon92]. **time-inhomogeneous** [Gek78]. **time-scale** [CGC95]. **time-stepping** [NV96]. **Timoshenko** [Li90]. **Titzche** [Nit68]. **Titzschen** [Nit68]. **TM** [Bao96]. **Toeplitz** [Bar69, BBdH86, Fre94, GH95, HJR88a, Huc98, Laf75, PE97, Qia88, Ris74, Ser99a, Ser99b, Swe84, Swe91, Wim74]. **Toeplitz-plus-Hankel** [HJR88a]. **tomography** [Lou86, LR89c, Nat85]. **Topological** [LH66, Bre75a, Ste75a, Sty79, Sty81]. **topologique** [Bre75a, LH66]. **toroidal** [EJ81]. **torsion** [And71]. **torus** [CM92]. **Total** [SB90, BS99c, CL97, Kuh93, PW93, VV89, Wei92a]. **Totally** [dBP77, Coh59, MP99]. **tracing** [Chu83]. **Tracking** [HSY91]. **trajectory** [SS84]. **transcendental** [Chu79]. **transferable** [Lam91]. **Transfinite** [GH73]. **transform** [BS59, Bri83, BRS71, CGC95, GL87, GLR88, GMS95, Gut81, Hag87, Hal92, Heg94, LSW85, Lou86, Nat78, Nat79, Rie91, Ros95, Web81].

Transformation [MT78, RB68, Sch73c, Bul69a, Eyd84, Eyd85, GL86, Hom95, Kio79, MSS67, MI82, Nie80, RS63, TM73, Wyn62, BS59]. **Transformationen** [Sch73c]. **Transformations** [BG65, Rat82, SW62, Bod68, Bre85, Bre89, Dah85, EV97, LM98, Por66, Tro86, Wim74, dHH87]. **Transformed** [Dun67, Dun68]. **Transforming** [Wit89, Wit90]. **transforms** [GMS95, Gus85, Hek87, Lun85, ST89, Ste66c, Won82]. **transient** [Ste93b]. **transitions** [NS91]. **translates** [HSS96, LTT92, LW99]. **Transmission** [Sch61b, GS98c, Rei91]. **transonic** [Ber89a, GW94, GW95a]. **Transport** [MW99, MRMW90, Ben64, MC88a, MC88b, NV80a, Pir82, WKW97]. **transport-diffusion** [Pir82]. **transportation** [Nag63]. **transversality** [Run70]. **transverse** [DN86]. **Trapezoidal** [RS90, AB87, AF89, Kre72b]. **Traub** [Hag87]. **treating** [Won92a, Won92b]. **Treatment** [Bra60, WS59, AU62, Alb85, BS89, BZ82, BS66b, Chu83, Ein71, Heb88, Her71, Kad67, Nat69b, OP81, Web79, Wen68]. **triangle** [Žen70]. **triangles** [BG76a]. **Triangular** [Ben65, Bre70, Cup84, ER74, BG76b, Bra94, Buc64, CGH93, DS91, DMR91, KS99, Man74]. **Triangularization** [PW70, PE97]. **triangularizing** [Gre62]. **triangulations** [FQ99, Gme87]. **Tricomi** [ASW80, ALS90, GL87, VV84]. **Tridiagonal** [MBW67, Cup81, KM86, Lew82, RB68, Ber84, Dub70, ESR82, Heg91, Her74, Rei89a, Sac72, Sch87b, Wil62a, Wil62b, Ye95]. **Tridiagonalematrizen** [Her74]. **tridiagonalisation** [Zie97]. **Tridiagonalization** [Sch68c, MRW68, Rai69]. **tridiagonals** [PW84]. **tridimensional** [PR93]. **Trigonometric** [Zur64, DV97, Gau61, Hen79, IM94, Kre71, Kre72a, Müh79, ST91]. **trigonometrische** [Kre71]. **trigonometrischer** [Zur64]. **Triplex** [AKK+68]. **Triplex-ALGOL** [AKK+68]. **trockener** [Tau76]. **troisième** [AG88]. **Truncated** [LR89c, GT78, Ste99]. **Truncation** [BJ85b, BJ89, Cha61, Gra68, HP66, JT76, FJ72, Mir71, RW85b]. **trust** [xY95]. **Tschebyscheff** [Bla77a, BL67, BS68, Cro77, Dör70, Fil64, För82, Hof69, Hof70, Wer62, Zur64, Bro65a, Cro76, Des61, MW60a, MW60b, Sti59]. **Tschebyscheff-Approximation** [Bla77a, BL67, BS68, Cro77, Fil64, Hof69, Hof70, Wer62, Zur64]. **Tschebyscheff-Approximationen** [Bro65a, Cro76, MW60a, MW60b, Sti59]. **Tschebyscheff-Typ** [För82]. **Tschebyscheff-Verfahren** [Dör70]. **Tschebyscheffschen** [Mül68, Nit62]. **TSVD** [FH95]. **Tuning** [AGP92, MI82]. **turning** [GR86, Mor94, Pau81a, Pau81b, PS82, RP85, SO89]. **Two** [AL93, BDM85, CL61, HV99, Müh85, Sau63, Sha70, Yse90, Zha93, AF88a, AM94a, AM78, AKS88, BMPS99, Bak82, BSV68, Bla72, BF70, Bos71, Bre96, BEHH75, CH71, Cha84, Cha99, CK82, DP85, DPR76, DMGVO96, Dij59, DD73b, DD74, FB89, Fra76, Fra77, Fri70, FS92, FS94, Gab84, GM66b, GeN80b, GN66, Gun64b, yGL93, GC96, HS83, IJ87, JM78, KK97, KZ94, Ley86, LR73, Moc74, Mon84, MMS92, NV80a, Nic75, OA75, Par59, PPV69, Pow94, Red73, RS76, Ren79, Sac88, Sal64, Şch73b, Sch75c, Seo95, Shi79, Spi76, Sto61, Stu89, TIK67, VV98, XS92, Zwa73, Gün75, Hüb72]. **Two-dimensional** [Sha70, AF88a, CH71, DP85, yGL93, HS83, JM78, Mon84, NV80a, Sac88, Shi79]. **two-grid** [AM94a]. **Two-level** [HV99, Bre96]. **two-line** [Par59]. **two-parameter** [Seo95]. **two-point** [AM78, Bak82, Bla72, Bos71, CK82, DPR76, DMGVO96, Fra76, Fra77, GeN80b, GN66, Ley86, OA75, PPV69, Ren79, Şch73b, Sch75c, TIK67, XS92]. **Two-sided**

[Zha93, Spi76]. **two-stage** [BMPS99, FS92, FS94, Gun64b]. **two-step** [KZ94]. **Typ** [För82, Kle81a, Kle81b, Ric74b]. **Type** [EB68, Fre90, GP71, Jou71a, AL76, AHS84, BRS92, BZS99, BCS96, BS88, CR89, CR74, Cho89, Con84, CDL96, DMGVO96, Ebe70, Egg84, EP95, FGM67, For75, För93, FR86, GMF99, GK66, GLC89, Hal75, Häu86, Hel87, HJR88b, HL99, Huc98, IM94, IK89, JK91a, Kal98, KW81, Kle81a, Kle81b, LLS95, LW82, LMR95, Lev82, Lub88c, Lub89b, MPP99, May86, Mei97, Nii85, NS95b, NS96, NW79, Not90, Not93b, NS83b, OPS76, RRS89, Sab78, Sch81b, Sch81c, Ser99a, Ste66a, Ste66b, Str84, SWB91, Str73b, vI84, vdHtR81, AS97b, BS97b, DGP93, För82, GM77, Hun72, Lev89, Mie79, MI82, RF94, SHH85, VV88, vW77b]. **type-II** [DGP93]. **types** [DJ62].

überlinear [PS82]. **Überrelaxation** [Hüb72]. **ultrametric** [VN93]. **ultrarelativistic** [LMGR94]. **unabhängigen** [Sau63]. **unbeschränkten** [Bla77a, Bla77b]. **unbounded** [Bla77a, Bla77b, HB97, Las92]. **uncentered** [CR80]. **uncertainty** [LV75]. **Unconditionally** [Hai79, Hai80]. **unconstrained** [Brä81b, GLL91, KS89, Kle81a, Kle81b]. **uncontrollability** [He97]. **Uncoupled** [SZ91b, Bar93]. **Underdetermined** [AL85, Mey83]. **underrelaxation** [CEG83]. **unendlich** [Zhe89]. **ungerader** [Mar70c]. **Ungleichung** [Mei63]. **Ungleichungen** [Küp78, Sch66b]. **Unicity** [Str82]. **Unified** [Mie79, AO93, FF97, Fro88b]. **Uniform** [CMO91, Her90, Joh69, BZ85, BP66, Buc64, BM92, CM89, DML83, Dej66a, Dej66b, FGS95, Gar65, Gün94, Hel68, Lub89b, Mit73, NY83, O'R87, Pow94, Riv62, SO87]. **Uniformly** [SO89, Vog83a, McA68, Nii84, SS95, GKR86]. **unifying** [DC99]. **unilateral** [Com85]. **unique** [Atk67, KS91]. **Uniqueness** [Hal77, Mül68, BS97a, Bro65a, BL67, Cro78, JO80, Kuh93, Pet70]. **unit** [Tao84, Tre81]. **Unitäre** [Sch73c]. **Unitary** [GR90, Faß97, Sch73c]. **unité** [Tao84]. **Units** [Neu60]. **univalence** [KT59, Luk61]. **univariate** [SH95, vG82]. **Universität** [Ano83b]. **unknowns** [CT91, CT93]. **unnormalized** [FM68, MM67, Met65a, Met65b]. **Unrestricted** [MM67]. **unrestringierter** [Kle81a, Kle81b]. **unsmoothed** [GHT94]. **unstable** [DH97, Hin96]. **unsteady** [GQ98]. **unstructured** [BX96, CSZ96, KNR95]. **Unsymmetric** [MW67, Jia98, Kri83, Sad93b, Sad93a, Sar86, Wag97b]. **untere** [Bod68, Kna71]. **Untergruppen** [Fel61]. **Untergruppenverbände** [Neu61]. **Untergruppenverbandes** [GL65, Neu60]. **Untersuchung** [Neu63]. **Untersuchungen** [Neu60, Rei71a]. **updates** [GT82a, GT82b]. **Updating** [BN78, Cup84]. **Upon** [Wyn66, Jer89]. **Upper** [Sch75c, Wei95, Bjö88, BS66a, Küp76b, NV80b, Sto64a, Lin76]. **Upperbounds** [vdS70c]. **upstream** [CGH93]. **Upwind** [Roh98, KNR95]. **upwinding** [BBFS90]. **Use** [Hof70, Leh66, Mar65, AS97a, Alb61b, Com59, HP81, Kim98b, Red77, Sch66b, Tha76, Wyn62]. **used** [Gre79, Peh95]. **useful** [Cla78, Wil71]. **Uses** [Had69a]. **Using** [Bre70, EG94, Not98, SB90, AO93, And69, BO80, BE86, BLLN95, Bra92, Cas80b, CSZ96, Chr70a, Chr70b, CR80, Cle71, CS66, CS68, CFH68, CGT94, Dix82, DD74, GeN80a, Gus85, Had71, HP76a, Han80, JS91, JY93, Jou71b, Küp78, Läu61, MQ89, Mar73, MP96b, MS99, NC93, Sar97, ST91, Sim78, Spe71, Tor97, VV98, Web81, dHH87]. **USSOR** [LV89, Sar90, Sar96]. **utilisant** [Tor97]. **utilisation** [Goë68].

V [Ano83a, Mei63, CSV69, GS95a]. **v.** [Fis61]. **valeurs** [Mor74, Par73]. **valid** [Vog83a]. **validation** [ACP99, CW79b, Gir89, Luk93]. **Value** [AU61, Ans69, Ber59b, BN78, BGBMN91, CI94, Cho90, CS59, GR70a, Leh60, Leh61, Sau63, Sik61, Tre62, Wat68, Wer69, vFvH73, Ain98, AU62, AM78, AM94b, AR68, Ans64, Ans67, Arn84, Asc85, AM88, AHS84, AKS88, BO80, BV84, BL92, BL86a, BH61b, BH65, Ber59a, Bey78, Bla72, BS96, BF70, Bos71, Bra66, BHK94, BEHH75, CH71, Cas81a, CVV88, CK82, CŠ79, CSV67, CSV68a, CSV68b, CSV68c, CSV69, CNV70, CM89, Cry73, DP72, DD99, DPR76, DLO$^+$77, Die96, DH80, Dut99, ES90, EP75, EP76, EJSS97, Ess77, EN80, För67, Fra76, Fra77, GS74, Gek74, GK80, GeN80a, GeN80b, GKR86, GN66, Gus73, Hac77b, HHM76, Hei89a, Hof67, Hof75, Hul71, Ish84a, IJ87, Jam70, JN81, JN82a, JN82b, Jer70, Kea68]. **value** [KS71, Kos85, Kra86, Kre59, Kut75, Lan87, LN99, Ley86, Li86, Li87, LRZ95, Lou86, Lub94, LR73, Lyn85, Mar75, Moc74, Mon84, Mon87, Mül82b, Nev77, NY83, Nit69b, NW76, OA75, PE72, Pao87, Per68, PPV69, Pet70, Red73, RS76, Ren79, Reu88a, RW88, RS72, Rus74, RW85b, Sán75, Şch73b, SS88, Sch66b, ST73, Sch75c, STR76, Sch84, Sch71b, Sch72b, Ser99b, Sha68, Spi66, Spi76, Spi83, Spr76, Sta77a, Sta77b, Ste63, Ste68, SO86, Tro76, TIK67, Ura67, Van85, Vol86, Vos75, Wal97, Wen68, Wes75, Wit78b, Wit78c, Won93, Wri92, Wri94, XS92, Zlá69, dO70, vdGK86]. **value-vector** [AR68]. **value/alternative** [Sán75]. **Valued** [BGBMN91, Car72b, GM83, Joh69, KM91]. **Values** [Hen62, Bau62, Bau68, FP94, GS95a, HC63, Hun72, Hun73, JTW89, Jeg68, KS99, LM75, NS64, Rob72, Sta97, Zen68, Zha96]. **values/vectors** [Zha96]. **Vandermonde** [BH92b, BE73, CGR90, EFP98, GP71, Gau62, Gau63, Gau75a, Gau75b, Gau78, GI88, GO94a, Hig87]. **Vandermonde-like** [BH92b]. **vanishing** [KK97]. **Varga** [Cia98]. **Variable** [CGG90, Str63, Wer78, Ziv83, Brä81b, GM68, GT82b, Gri83, JT70, Jov89, LM98, Pal99, Rit80, RF94, SW99a, TM73, TW83, Yse99b, Zla78, Zla81, Rei75]. **variable-coefficient** [SW99a]. **Variable-Metrik-Verfahren** [Wer78]. **variable-shift** [JT70]. **Variable-signed** [Str63]. **Variablen** [Rei75]. **Variables** [Sau63, Ben62, BP79, BSV68, BDDF87, Cha84, Dou62a, GM66b, Hsu62, MH72, Nie91, Sal64, Sch99, Stu89, Tis72, Tsu72, Tsu73, Tsu75, Wei59, Bro65b]. **Variance** [Bar91a]. **Varianten** [Kle81b]. **variants** [Atk73, Kle81b]. **Variation** [Hen62, CL97, FDD92, Zet70]. **Variational** [Bit68, Bit71, Cia90, RG88, And69, Arn82, BM87, BHR77, BHR78, BH74, BS85, CC91, CV70, CD85, Dan70, DB77, Eyd84, Eyd85, Fet87, FG77, For72, HM83, Klo99, KW95, Kor94, Kor96, Man72, Mit78, Noc89, Ped96, PSS90, Rum96, Run70, RN98, Sha68, Spa94, Vui90, Žen89]. **variationally** [Kol78, SG78]. **variations** [HP92]. **Variationsbereich** [Zet70]. **Variationsmethoden** [Bit68, Bit71]. **Variationsungleichung** [BH74]. **various** [Gut81, Nit70]. **varying** [Bar91b, GHR65, KW96, KP91]. **Vector** [Bar69, GM83, Kra68, KS73, AR68, Cor77, GM92, GN66, Heg94, JS95, Joh69, Ver87b, Wyn64]. **vector-valued** [Joh69]. **vectorial** [Van94]. **vectors** [CR94, EP86, Sch64a, Ste84, Zha96]. **Vektorräumen** [Kra68]. **Vektorraums** [KS73]. **velocity** [BN84, Rua85]. **velocity-pressure** [BN84, Rua85]. **verallgemeinerten** [Mey84b]. **verallgemeinerter** [Arn80]. **Verallgemeinerung** [Ans66, Mar65, Mei63]. **Veränderlichen** [Sau63, Bro65b]. **Verbesserung** [Ale82b, Häm65, Sch61e]. **Vereinfachte** [Sch75b]. **Verfahren** [AH72, Ans63, Ber59b, BS60, Cro76, Dol81, Dör70, GL65, Kle81a, Leh60, Mey84b,

Nie73b, PS82, Saw82, SS66, Sch61a, SEG62, Sch68b, SV70, Sto67, Wag76, Wer78, Wer79, Wit78b, Wit78c, Zet70, Zur63, Bra77, Col61, For72, Had68, Kle81a, Kle81b, Nit69b, Nit76, Sch66a]. **Verfahrens** [Ale82b, Fil64, Mer91, Ale76, AV86, Nit68, Sch61c]. **Vergleichsfaktor** [Aum63]. **Verhalten** [Fie87, Ort86]. **verification** [RN98]. **verifications** [YN93]. **Verschärfung** [Ber60, Ber59b]. **verschiedener** [Nit70]. **version** [AK99, BS89, GB86a, GB86c, Guo88, GC96, GS98c, Heu98, HMS99, Heu01, Jen91, MP96a, OD95, Pav94a, Pav94b, Sac72, Vog83a, Vog83b]. **versions** [BD81, GB86a, GB86b, GB86c, Li90, LM99]. **Verteilung** [NW73]. **vertices** [MN68]. **Verwendung** [Alb61b, Leh66]. **very** [Ruh70, Tsu72, Tsu73, Tsu75, Wil72]. **Verzweigungsprobleme** [Sch77a]. **Verzweigungsproblemen** [Web79]. **VI** [Ano86]. **via** [CL97, DD73b, Fel61, KP90, MS85, O'C96, Opf80, QLV91, Sch90, Ser99a]. **Vibrations** [Wer69, Tau76]. **vicinity** [MY79]. **vielen** [Zhe89]. **Vierecken** [Gai72]. **vierter** [Nat69a]. **viewpoint** [Moo88]. **Vincent** [Akr80]. **Virgule** [Pic72]. **viscoelastic** [BS92b, LR89a, NS95a]. **viscosité** [BN90]. **viscosity** [FF94, Koc95, LRT93, Sch95a]. **Viscous** [EK99, ABF99, Heb88, Man84, QLV91, Tau76]. **voisinage** [Tho90]. **vollständigen** [GL65]. **Volterra** [BJ85a, Bru78, BN81, DMJ86, Egg86, Egg88, Hoc79, Hoc81, IK89, Jac79, Kau89, Lub82, Mat76, Rak73, SW96, Ste72, Tan92, Ver88, WA72, dHW73, dHW75, vdHtR81]. **Volume** [KjS95, BC91, BW93, Cai91b, CGH93, Cha99, EGH99, KMS99, KNR95, Mis99, PS96a, Roh98, SS98, VV98]. **volume-matching** [BC91]. **Volume-preserving** [KjS95]. **Volumes** [Ano83c]. **vom** [Kle81a, Kle81b, Nit62, Ric74b]. **Voraussetzungen** [Sch75d]. **Vorticity** [AGP92, AYB98, yGL93, ZL94]. **Vorzeichenstabile** [GK80]. **Vries** [GA92, dFSS97].

W [Had72a]. **Wachspress** [AAG79]. **Wachstrum** [Rei71a]. **walk** [HI71]. **Wanner** [RRS89]. **Watther** [Sau67]. **wave** [BS97b, CMR93, DG86, McL94, Mor62, TV98, Yan94]. **waveguides** [BP92]. **Wavelet** [WZ95, vPS96, Ber97, CT93, CGC95, Rie91, Rie97, Ste98, SP94, XS92]. **wavelet-like** [CT93]. **waves** [GJ89, Kim98a, Wah75b]. **ways** [Ske86, Sto83]. **Weak** [Ros75, Stu76, Bra69, Els89, MS90, Sch75d, Hav77]. **Weak-element** [Ros75]. **weakly** [GKR86, Kos85, Roh98, Tan92]. **Weber** [Coh60]. **wedge** [Rei91]. **wedge-shaped** [Rei91]. **Weeks** [GLR88]. **Weierstrass** [Jar94, PCT95, Tod90]. **Weight** [GG90, DB77, Lev82, Not90, Not93b, Sal75, Str63]. **Weighted** [Bau65b, FS99, DN89, GK94, Lu97, Pec74, Sal63, vG82]. **Weights** [KE82, DD99, Mon87, Peh88]. **Weinberger** [Mei86]. **Weiser** [DR92]. **Well** [Mül68, Uhl92, CCK95, GP85, Lam91, Lus96]. **Well-Conditioned** [Uhl92]. **well-posed** [Lam91]. **well-posedness** [GP85]. **Weller** [Auz88]. **wells** [Chi99]. **Wendroff** [Hed65, MO78, Zwa73]. **Wert** [Jeg68, Sik61]. **Wertebereich** [vF70]. **Wetterling** [Had72a]. **Weyl** [Bit91]. **where** [Har80]. **Which** [Bus68, Nab92, FR86, Gue86, Por66, Sre69, Sre71, Wal97, Wyn66]. **whose** [Boe64, vI84]. **Wielandt** [LM99, Loi67]. **Wiener** [CG88b]. **Wilf** [Eck68]. **Wilfscher** [Eck68]. **Wilkinson** [BH87, PC83]. **Wilson** [CL94, LZ80, Sch81b, Sch81c, cS84, SJX97]. **Wing** [RS65]. **Winograd** [Bre70]. **without** [AH72, BP92, Brä81b, CPT98, Car72a, Eng77, Häm65, SO89, Wer78]. **work** [Dir69, Had72a]. **worst** [gS95b]. **worst-case** [gS95b]. **wrap** [Heg91]. **wrap-around** [Heg91]. **Wurzeln** [Nic66a].

X [Ano98a, Ano98b, Lou86, LR89c]. **X-ray** [Lou86, LR89c].

Yamamoto [Dav70]. **Yuan** [Pyt02].

zäher [Tau76]. **Zahlen** [Kar61]. **Zählerpolynom** [Lam70]. **Zeilensummenkriterium** [Sch68a]. **Zerfallende** [Her74]. **Zerlegung** [KS73]. **Zerlegungen** [Ale73, Kul68, Sch80b]. **Zero** [CGG90, Zla81, HC92, PCT95, SV76b, SV77, Ver77a]. **zero-finding** [PCT95]. **zero-free** [SV76b, SV77]. **zero-parasitic** [Ver77a]. **Zero-stability** [Zla81]. **Zeros** [BS63, BS70, Dir69, FS70, Ker66, AH72, BL76, BH73, Car92, Chu79, Coc65, DD78, Elb91, Els73, Fro88b, GH72, Gut72, IK77, JT70, Kap96, Kio79, MK60, MS95a, SV75, SV76a, SV78, Van82, VC94, Wer79, Wil59a, Wil59b, YK88, Gün75]. **Zolotukhin** [BMP81]. **zum** [Ber59b, Bra73, Due59, For68a, For72, Had72b, Leh60, Zet70, Zur63, Lod70, NO68, Sch68a, Sch70b, Wet60]. **zur** [AU61, Alb61a, Alb61b, Ale82b, Ans63, Ans67, Arn80, Bit64, BS60, Bra70, Bul64, Cro76, Cro77, Dir69, Döh82, Dre77, ES73, For68a, För82, GL65, Häm65, Hav84, Jet84, Ker66, Kle81a, Kle81b, Koß81, KS73, Mit73, Mül79a, Mül79b, Mül80, Neu63, Nie73b, PS82, Rut60, Sau78, SS66, Sch61a, SEG62, Sch64b, Sch75b, Sto61, Sto67, Tör63, Wag76, Wag80, Weg78, Wer79, Ale76, AV76, Ale82b, AV86, Ans64, Ans66, BS59, Bey78, Bla77b, Bra61, BL67, BS68, Ehr69, For75, For78, Häm66, Hof69, Jeg68, KR82, Kre72b, Lan87, Leh66, Loc73, Lor77, Mar70c, MS78, Mer91, Mül68, Nit70, PK64, Pau77, Ric74b, Sau84, SG62a, SG62b, Sch61c, Zur64]. **Zusammenhang** [WB69]. **zwei** [Sau63, Sto61]. **Zweidimensionale** [Gün75]. **Zweiparametrige** [Hüb72]. **zweiter** [Het74, Het75, Küp78, Nat69a, Spr76]. **zyklisch** [KS73]. **zyklisches** [Dol81]. **Zylindersymmetrie** [vFvH73].

References

Achchab:1998:EEP

[AABM98] B. Achchab, A. Agouzal, J. Baranger, and J. F. Maitre. Estimateur d'erreur a posteriori hiérarchique. application aux éléments finis mixtes (French) [A posteriori hierarchical error estimator. application to mixed finite elements]. *Numerische Mathematik*, 80(2): 159–179, August 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080002/80800159.htm; http://link.springer.de/link/service/journals/00211/papers/8080002/80800159.pdf; http://link.springer.de/link/service/journals/00211/papers/8080002/80800159.ps.gz`.

Apprato:1979:EFR

[AAG79] D. Apprato, R. Arcangéli, and J. L. Gout. Sur les éléments finis rationnels de Wachspress. (French) [On the finite rational elements of Wachspress]. *Numerische Mathematik*, 32(3): 247–270, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderssen:1974:NDP

[AB74] R. S. Anderssen and P. Bloomfield. Numerical differentiation procedures for non-exact data. *Numerische Mathematik*, 22(3):

157–182, June 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Andersson:1984:NOQ

[AB84] Jan-Erik Andersson and Borislav D. Bojanov. A note on the optimal quadrature in H^p. *Numerische Mathematik*, 44(2):301–308, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Akrivis:1985:FNG

[AB85] G. Akrivis and A. Burgstaller. Fehlerabschätzungen für nichtsymmetrische Gauß-Quadraturformeln. (German) [Error estimates for nonsymmetric Gaussian quadrature formuale]. *Numerische Mathematik*, 47(4):535–543, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Allasia:1987:NCI

[AB87] Giampietro Allasia and Renata Besenghi. Numerical calculation of incomplete gamma functions by the trapezoidal rule. *Numerische Mathematik*, 50(4): 419–428, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Angot:1999:PMT

[ABF99] Philippe Angot, Charles-Henri Bruneau, and Pierre Fabrie. A penalization method to take into account obstacles in incompressible viscous flows. *Numerische Mathematik*, 81(4):497–520, February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810497.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810497.pdf`.

Allaire:1997:SOH

[ABFJ97] Grégoire Allaire, Eric Bonnetier, Gilles Francfort, and François Jouve. Shape optimization by the homogenization method. *Numerische Mathematik*, 76(1): 27–68, March 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076001/70760027.htm; http://science.springer.de/nmee/bibs/7076001/70760027.htm`.

Abaffy:1984:CDM

[ABS84] Joszef Abaffy, Charles G. Broyden, and Emilio Spedicato. A class of direct methods for linear systems. *Numerische Mathematik*, 45(3):361–376, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ainsworth:1992:PEE

[AC92] Mark Ainsworth and Alan Craig. A posteriori error estimators in the finite element method. *Numerische Mathematik*, 60(4):429–463, January 1992. CODEN NUMMA7. ISSN

0029-599X (print), 0945-3245 (electronic).

Axelsson:1994:NGC

[AC94] O. Axelsson and A. T. Chronopoulos. On nonlinear generalized conjugate gradient methods. *Numerische Mathematik*, 69(1): 1–15, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069001/40690001.htm; http://science.springer.de/nmee/bibs/4069001/40690001.htm`.

Akrivis:1999:IEM

[ACM99] Georgios Akrivis, Michel Crouzeix, and Charalambos Makridakis. Implicit-explicit multistep methods for quasilinear parabolic equations. *Numerische Mathematik*, 82(4):521–541, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820521.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082004/90820521.pdf`.

Alefeld:1999:NVS

[ACP99] G. E. Alefeld, X. Chen, and F. A. Potra. Numerical validation of solutions of linear complementarity problems. *Numerische Mathematik*, 83(1):1–23, July 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083001/90830001.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083001/90830001.pdf`.

Ascher:1994:SDI

[ACR94] Uri M. Ascher, Hongsheng Chin, and Sebastian Reich. Stabilization of DAEs and invariant manifolds. *Numerische Mathematik*, 67(2): 131–149, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670131.htm; http://science.springer.de/nmee/bibs/4067002/40670131.htm`.

Azpeitia:1964:DRS

[AD64] A. G. Azpeitia and D. J. Dickinson. A decision rule in the simplex method that avoids cycling. *Numerische Mathematik*, 6(1): 329–331, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anselone:1973:PBA

[AD73] Philip M. Anselone and Joel Davis. Perturbations of best approximation problems. *Numerische Mathematik*, 21(1):63–69, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Astor:1974:DS

[AD74] P. H. Astor and C. S. Duris. Discrete L-splines. *Numerische Mathematik*, 22(5):393–402, October 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alouges:1993:DPD

[AD93] François Alouges and Arnaud Debussche. On the discretization of a partial differential equation in the neighborhood of a periodic orbit. *Numerische Mathematik*, 65(2): 143–175, June 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arioli:1989:ASA

[ADdR89] Mario Arioli, Iain S. Duff, and Peter P. M. de Rijk. On the augmented system approach to sparse least-squares problems. *Numerische Mathematik*, 55(6): 667–684, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ade:1969:IHO

[Ade69] Hans Ade. Iterationsverfahren höherer Ordnung in Banach-Räumen. (German) [Iteration methods of higher-order in Banach spaces]. *Numerische Mathematik*, 13(1):39–50, March 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arnold:1984:FHO

[ADG84] Douglas N. Arnold, Jim Douglas, Jr., and Chaitan P. Gupta. A family of higher order mixed finite element methods for plane elasticity. *Numerische Mathematik*, 45(1):1–22, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Akrivis:1991:FDG

[ADK91] Georgios D. Akrivis, Vassilios A. Dougalis, and Ohannes A. Karakashian. On fully discrete Galerkin methods of second-order temporal accuracy for the nonlinear schrödinger equation. *Numerische Mathematik*, 59(1): 31–53, April 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Adjerid:1988:SOF

[AF88a] Slimane Adjerid and Joseph E. Flaherty. Second-order finite element approximations and a posteriori error estimation for two-dimensional parabolic systems. *Numerische Mathematik*, 53(1/2):183–198, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arnold:1988:NMF

[AF88b] Douglas N. Arnold and Richard S. Falk. A new mixed formulation for elasticity. *Numerische Mathematik*, 53(1/2):13–30, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Auzinger:1989:AEE

[AF89] W. Auzinger and R. Frank. Asymptotic error expansions for stiff equations: an analysis for the implicit midpoint and trapezoidal rules in the strongly stiff case. *Numerische Mathematik*, 56(5):469–499, November 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Adjerid:1993:PEE

[AFW93] Slimane Adjerid, Joseph E. Flaherty, and Yun J. Wang. A posteriori error estimation with finite element methods of lines for one-dimensional parabolic systems. *Numerische Mathematik*, 65(1):1–21, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Amrouche:1988:MAM

[AG88] Chérif Amrouche and Vivette Girault. Une méthode d'approximation mixte des équations des fluides non newtoniens de troisième grade. (French) [Mixed approximations of the equations of non-Newtonian fluids of grade three]. *Numerische Mathematik*, 53(3): 315–349, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Amiez:1991:NAS

[AG91] Geneviève Amiez and Pierre-Alain Gremaud. On a numerical approach to Stefan-like problems. *Numerische Mathematik*, 59(1):71–89, April 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Achdou:1992:TMM

[AGP92] Yves Achdou, Roland Glowinski, and Olivier Pironneau. Tuning the mesh of a mixed method for the stream function. vorticity formulation of the Navier–Stokes equations. *Numerische Mathematik*, 63(2): 145–163, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Abaffy:1987:LCA

[AGS87] József Abaffy, Aurél Galántai, and Emilio Spedicato. The local convergence of ABS methods for nonlinear algebraic equations. *Numerische Mathematik*, 51(4): 429–439, August 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ainsworth:1998:SGA

[AGS98] Mark Ainsworth, Rolf Grigorieff, and Ian Sloan. Semi-discrete Galerkin approximation of the single layer equation by general splines. *Numerische Mathematik*, 79(2): 157–174, April 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079002/80790157.htm; http://science.springer.`

de/nmee/bibs/8079002/80790157.htm.

Aguilera:1989:NAC

[Agu89] Néstor E. Aguilera. Numerical analysis of cavitational flow-theory. *Numerische Mathematik*, 55(1):1–32, April 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1972:IZN

[AH72] G. Alefeld and J. Herzberger. Nullstelleneinschliessung Mit Dem Newton-Verfahren Ohne Invertierung Von Intervallmatrizen. (German) [Including zeros of nonlinear equations by the Newton method without inverting interval matrices]. *Numerische Mathematik*, 19(1):56–64, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Aziz:1984:FEM

[AHS84] A. K. Aziz, Houde Han, and M. Schneider. A finite element method for a boundary value problem of mixed type. *Numerische Mathematik*, 44(2): 191–200, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ainsworth:1996:ISS

[Ain96] Mark Ainsworth. The influence and selection of subspaces for a posteriori error estimators. *Numerische Mathematik*, 73(4): 399–418, June 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6073004/60730399.htm; http://science.springer.de/nmee/bibs/6073004/60730399.htm.

Ainsworth:1998:PEE

[Ain98] Mark Ainsworth. A posteriori error estimation for fully discrete hierarchic models of elliptic boundary value problems on thin domains. *Numerische Mathematik*, 80(3):325–362, September 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8080003/80800325.htm; http://link.springer.de/link/service/journals/00211/papers/8080003/80800325.pdf; http://link.springer.de/link/service/journals/00211/papers/8080003/80800325.ps.gz.

Akhlaghi:1990:ESC

[AJS90] M. R. Akhlaghi, A. Jakimovski, and A. Sharma. Equiconvergence of some complex interpolatory polynomials. *Numerische Mathematik*, 57(6/7): 635–649, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Ainsworth:1999:ATP

[AK99] Mark Ainsworth and David Kay. The approximation theory for the p-version finite element method and application to non-linear elliptic PDEs. *Numerische Mathematik*, 82(3):351–388, May 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082003/90820351.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082003/90820351.pdf`.

Apostolatos:1968:ALT

[AKK+68] N. Apostolatos, U. Kulisch, R. Krawczyk, B. Lortz, K. Nickel, and H. W. Wippermann. The algorithmic language Triplex-ALGOL 60. *Numerische Mathematik*, 11(2):175–180, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). From the first page: "triplex numbers, previously called Fehlerschrankenzahlen by K. Nickel and interval numbers by R. E. Moore. ... Triplex numbers are intervals with a main value enclosed, which corresponds to conventional numbers of **real** type. The first number following [is the lower bound of the interval associated with a triplex number, the next number is the previous mentioned main value, and the last number followed by] is the upper bound of the interval. The following relation has to be fulfilled: lower bound $\leq$ main value $\leq$ upper bound.".

Abrahamsson:1974:DAS

[AKK74] L. R. Abrahamsson, H. B. Keller, and H. O. Kreiss. Difference approximations for singular perturbations of systems of ordinary differential equations. *Numerische Mathematik*, 22(5): 367–391, October 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Achdou:1995:SPM

[AKP95] Y. Achdou, Yu. A. Kuznetsov, and O. Pironneau. Substructuring preconditioners for the Q_1 mortar element method. *Numerische Mathematik*, 71(4): 419–449, October 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071004/50710419.htm; http://science.springer.de/nmee/bibs/5071004/50710419.htm`.

Akritas:1980:IVT

[Akr80] Alkiviadis G. Akritas. An implementation of Vincent's theorem. *Numerische Mathematik*, 36(1): 53–62, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Akrivis:1984:FFG

[Akr84] G. Akrivis. Fehlerabschätzungen für Gauß-Quadraturformeln.

(German) [Error estimates for Gaussian quadrature formulas]. *Numerische Mathematik*, 44(2): 261–278, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Akritas:1988:NMC

[Akr88] Alkiviadis G. Akritas. A new method for computing polynomial greatest common divisors and polynomial remainder sequences. *Numerische Mathematik*, 52(2):119–127, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Akrivis:1992:FDD

[Akr92] Georgios D. Akrivis. Finite difference discretization of the Kuramoto–Sivashinsky equation. *Numerische Mathematik*, 63(1):1–11, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Aziz:1988:TPB

[AKS88] A. K. Aziz, R. B. Kellogg, and A. B. Stephens. A two point boundary value problem with a rapidly oscillating solution. *Numerische Mathematik*, 53(1/2): 107–121, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anselone:1968:GMC

[AL68] P. M. Anselone and P. J. Laurent. A general method for the construction of interpolating or smoothing spline-functions. *Numerische Mathematik*, 12(1): 66–82, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderson:1976:JTM

[AL76] P. J. Anderson and G. Loizou. A Jacobi type method for complex symmetric matrices. *Numerische Mathematik*, 25(4): 347–363, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arioli:1985:EAA

[AL85] M. Arioli and A. Laratta. Error analysis of an algorithm for solving an underdetermined linear system. *Numerische Mathematik*, 46(2):255–268, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Axelsson:1986:EDC

[AL86a] Owe Axelsson and Gunhild Lindskog. On the eigenvalue distribution of a class of preconditioning methods. *Numerische Mathematik*, 48(5): 479–498, May 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Axelsson:1986:RCP

[AL86b] Owe Axelsson and Gunhild Lindskog. On the rate of convergence of the preconditioned conjugate gradient method. *Numerische Mathematik*, 48(5): 499–523, May 1986. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Archer:1993:TSP

[AL93] J. C. Archer and E. Le Gruyer. Two shape preserving Lagrange $\mathcal{C}^{\in}$-interpolants. *Numerische Mathematik*, 64(1):1–11, January 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Apel:1996:AMR

[AL96] Thomas Apel and Gert Lube. Anisotropic mesh refinement in stabilized Galerkin methods. *Numerische Mathematik*, 74(3): 261–282, September 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074003/60740261.htm; http://science.springer.de/nmee/bibs/6074003/60740261.htm`.

Albrecht:1960:ASP

[Alb60] Rudolf F. Albrecht. Approximation to the solution of partial differential-equations by the solution of ordinary differential-equations. *Numerische Mathematik*, 2(1):245–262, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Albrecht:1961:FRN

[Alb61a] J. Albrecht. Fehlerabschätzungen bei Relaxationsverfahren zur numerischen Auflösung linearer Gleichungssysteme. (German) [Error bounds for the relaxation method for numerical solution of linear equation systems]. *Numerische Mathematik*, 3:188–201, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Albrecht:1961:MII

[Alb61b] J. Albrecht. Monotone Iterationsfolgen und ihre Verwendung zur Lösung linearer Gleichungssysteme. (German) [monotonic iteration sequences and their use in solving sets of linear equations]. *Numerische Mathematik*, 3(1):345–358, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=345`.

Albrecht:1962:FKM

[Alb62] Julius Albrecht. Fehlerschranken und Konvergenzbeschleunigung bei einer monotonen oder alternierenden Iterationsfolge. (German) [Error bounds and convergence acceleration with a monotone or alternating iteration sequence]. *Numerische Mathematik*, 4:196–208, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Albrecht:1978:OCM

[Alb78] P. Albrecht. On the order of composite multistep methods

for ordinary differential equations. *Numerische Mathematik*, 29(4):381–396, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Albrecht:1985:NTO

[Alb85] Peter Albrecht. Numerical treatment of ODEs: the theory of A-methods. *Numerische Mathematik*, 47(1):59–87, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1971:AFP

[Ale71] G. Alefeld. Anwendungen Des Fixpunktsatzes Für Pseudometrische Räume In Der Intervallrechnung. (German) [Application of the fixed point theorem for pseudo-metric space to interval computation]. *Numerische Mathematik*, 17(1):33–39, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1973:UKZ

[Ale73] G. Alefeld. Über konvergente Zerlegungen von Matrizen. (German) [On convergent splittings of matrices]. *Numerische Mathematik*, 20(4): 312–316, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1976:CPI

[Ale76] G. Alefeld. Zur Konvergenz des Peaceman–Rachford-Verfahrens. (German) [On the convergence of the Peaceman–Rachford iterative method]. *Numerische Mathematik*, 26(4): 409–419, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1982:CSS

[Ale82a] G. Alefeld. On the convergence of the symmetric SOR method for matrices with red-black ordering. *Numerische Mathematik*, 39(1):113–117, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1982:KVD

[Ale82b] G. Alefeld. Zur Konvergenz eines Verfahrens von D. J. Evans zur iterativen Verbesserung einer Näherung für die inverse Matrix. (German) [On the convergence of D. J. Evans' implicit matrix inversion process]. *Numerische Mathematik*, 39(2): 163–173, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1986:CIE

[Ale86] G. Alefeld. Componentwise inclusion and exclusion sets for solutions of quadratic equations in finite-dimensional spaces. *Numerische Mathematik*, 48(4): 391–416, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Allgower:1970:CPD

[All70] E. L. Allgower. Criteria for positive definiteness of some band matrices. *Numerische Mathematik*, 16(2):157–162, November 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Allgower:1973:EIC

[All73] E. L. Allgower. Exact inverses of certain band matrices. *Numerische Mathematik*, 21 (4):279–284, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1997:MMB

[ALM97] Götz Alefeld, Ingrid Lenhardt, and Günter Mayer. On multisplitting methods for band matrices. *Numerische Mathematik*, 75(3):267–292, January 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075003/70750267.htm; http://science.springer.de/nmee/bibs/7075003/70750267.htm`.

Alonso:1996:EEM

[Alo96] A. Alonso. Error estimators for a mixed method. *Numerische Mathematik*, 74(4):385–395, October 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074004/60740385.htm; http://science.springer.de/nmee/bibs/6074004/60740385.htm`.

Aziz:1990:FEM

[ALS90] A. K. Aziz, R. Lemmert, and M. Schneider. A finite element method for the nonlinear Tricomi problem. *Numerische Mathematik*, 58(1):95–108, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alt:1980:NSS

[Alt80] Hans Wilhelm Alt. Numerical solution of steady-state porous flow free boundary problems. *Numerische Mathematik*, 36(1): 73–98, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Allgower:1978:NMM

[AM78] E. L. Allgower and S. F. McCormick. Newton's method with mesh refinements for numerical solution of nonlinear two-point boundary value problems. *Numerische Mathematik*, 29(3): 237–260, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ascher:1988:GFS

[AM88] U. M. Ascher and R. M. M. Mattheij. General framework, stability and error analysis for numerical stiff boundary value methods. *Numerische Mathematik*, 54(3):355–372, December 1988. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

AitOuAmmi:1994:NGM

[AM94a] Ali Ait Ou Ammi and Martine Marion. Nonlinear Galerkin methods and mixed finite elements: two-grid algorithms for the Navier–Stokes equations. *Numerische Mathematik*, 68(2): 189–213, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680189.htm; http://science.springer.de/nmee/bibs/4068002/40680189.htm`.

Amodio:1994:BVM

[AM94b] P. Amodio and F. Mazzia. Boundary value methods for the solution of differential-algebraic equations. *Numerische Mathematik*, 66(4):411–421, January 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Amann:1972:NLN

[Ama72] Herbert Amann. Über die nährungswise Lösung nichtlinearer Integralgleichungen. (German) [On the approximate solution of nonlinear integral equations]. *Numerische Mathematik*, 19(1):29–45, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderssen:1969:NSP

[And69] R. S. Anderssen. The numerical solution of parabolic differential equations using variational methods. *Numerische Mathematik*, 13(2):129–145, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderssen:1971:SAE

[And71] R. S. Anderssen. A stability analysis for the extended Kantorovich method applied to the torsion problem. *Numerische Mathematik*, 17(3): 239–246, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderson:1988:MRE

[And88] Ned Anderson. Minimum relative error approximations for $1/t$. *Numerische Mathematik*, 54(2):117–124, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anonymous:1983:AAH

[Ano83a] Anonymous. Announcemen: Alston S. Householder Award V (1984). *Numerische Mathematik*, 42(2):258, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anonymous:1983:AIC

[Ano83b] Anonymous. Announcing an International Conference on Numerical Analysis on the Occasion of the 25th Anniversary

of the founding of Numerische Mathematik, March 19–21, 1984 at the Technische Universität Munich. *Numerische Mathematik*, 42(1):124, 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anonymous:1983:AIV

[Ano83c] Anonymous. Author index: Volumes 1–40 (1959–1982). *Numerische Mathematik*, 41(3): I–LII, July 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). This appears as a separately-numbered section at the end of the issue.

Anonymous:1984:AIC

[Ano84] Anonymous. Announcing an International Conference on Numerical Analysis. *Numerische Mathematik*, 43(2):328, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anonymous:1986:AAH

[Ano86] Anonymous. Announcement: Alston S. Householder Award VI (1987). *Numerische Mathematik*, 49(4):459, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anonymous:1998:AHAa

[Ano98a] Anonymous. Announcement: Householder Award X. *Numerische Mathematik*, 81(1): 161–162, November 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anonymous:1998:AHAb

[Ano98b] Anonymous. Announcement: Householder Award X. *Numerische Mathematik*, 81(2): 321–322, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anonymous:1999:PDO

[Ano99] Anonymous. Publications in the directory ONLINE First. *Numerische Mathematik*, 83(2): 177, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ansorge:1963:AVC

[Ans63] R. Ansorge. Die Adams–Verfahren als Charakteristikenverfahren höherer Ordnung zur Lösung von hyperbolischen Systemen halblinearer Differentialgleichungen. (German) [the Adams method for characteristic procedures of higher order for the solution of hyperbolic systems of half-linear differential equations]. *Numerische Mathematik*, 5(1):443–460, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=5&issue=1&spage=443`.

Ansorge:1964:SGK

[Ans64] Rainer Ansorge. Zur Struktur gewisser Konvergenzkriterien bei der numerischen Lösung von Anfangswertaufgaben. (German) [On the structure of some convergence criteria for numerical solving of certain initial value problems]. *Numerische Mathematik*, 6(1):224–234, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ansorge:1966:FVA

[Ans66] Rainer Ansorge. Zur Frage der Verallgemeinerung des Äquivalenzsatzes von Lax. (German) [On the question of generalization of the Lax equivalence principles]. *Numerische Mathematik*, 8(2):178–185, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ansorge:1967:KML

[Ans67] Rainer Ansorge. Konvergenz von Mehrschrittverfahren zur Lösung halblinearer Anfangswertaufgaben. (German) [Convergence of a multistep method for solution of half-linear initial-value problems]. *Numerische Mathematik*, 10(3): 209–219, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ansorge:1969:KDQ

[Ans69] Rainer Ansorge. Konvergenz von Differenzenverfahren für quasilineare Anfangswertaufgaben. (German) [Convergence of difference methods for quasilinear initial value problems]. *Numerische Mathematik*, 13(3): 217–225, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ansorge:1973:FKF

[Ans73] Rainer Ansorge. f-Konvergenz und f-Stetigkeit von Operatorenfolgen auf metrischen Räumen. (German) [f-convergence and f-stability of operator sequences in metric spaces]. *Numerische Mathematik*, 20(4): 280–287, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Antes:1972:SLI

[Ant72] Heinz Antes. Splinefunktionen bei der Lösung von Integralgleichungen. (German) [On the solution of integral equations with spline functions]. *Numerische Mathematik*, 19(2): 116–126, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderson:1976:DLA

[AO76] D. H. Anderson and M. R. Osborne. Discrete, linear approximation problems in polyhedral norms. *Numerische Mathematik*, 26(2):179–189, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderson:1977:DNAa

[AO77a] D. H. Anderson and M. R. Osborne. Discrete, nonlinear approximation problems in polyhedral norms. *Numerische Mathematik*, 28(2):143–156, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anderson:1977:DNAb

[AO77b] D. H. Anderson and M. R. Osborne. Discrete, nonlinear approximation problems in polyhedral norms: a Levenberg-like algorithm. *Numerische Mathematik*, 28(2):157–170, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ainsworth:1993:UAP

[AO93] Mark Ainsworth and J. Tinsley Oden. A unified approach to a posteriori error estimation using element residual methods. *Numerische Mathematik*, 65(1): 23–50, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Andrew:1985:CNE

[AP85] Alan L. Andrew and John W. Paine. Correction of Numerov's eigenvalue estimates. *Numerische Mathematik*, 47(2): 289–300, September 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Andrew:1986:CFE

[AP86] Alan L. Andrew and John W. Paine. Correction of finite element estimates for Sturm–Liouville eigenvalues. *Numerische Mathematik*, 50(2): 205–215, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anselone:1968:SCV

[AR68] P. M. Anselone and L. B. Rall. The solution of characteristic value-vector problems by Newton's method. *Numerische Mathematik*, 11(1):38–45, January 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arioli:1985:RBC

[AR85] Mario Arioli and Francesco Romani. Relations between condition numbers and the convergence of the Jacobi method for real positive definite matrices. *Numerische Mathematik*, 46(1): 31–42, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arunakirinathar:1993:MFE

[AR93] K. Arunakirinathar and B. D. Reddy. Mixed finite element methods for elastic rods of arbitrary geometry. *Numerische Mathematik*, 64(1):13–43, January 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ariyawansa:1998:LST

[Ari98] K. A. Ariyawansa. Line search termination criteria for collinear scaling algorithms for minimizing a class of convex functions. *Numerische Mathematik*, 80(3):363–376, September 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080003/80800363.htm; http://link.springer.de/link/service/journals/00211/papers/8080003/80800363.pdf; http://link.springer.de/link/service/journals/00211/papers/8080003/80800363.ps.gz`.

Arndt:1979:LGD

[Arn79] Herbert Arndt. Lösung von gewöhnlichen Differentialgleichungen mit nichtlinearen Splines. (German) [Solution of ordinary differential equations with nonlinear splines]. *Numerische Mathematik*, 33(3): 323–338, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arndt:1980:VKA

[Arn80] Herbert Arndt. Ein verallgemeinerter Kettenbruch-Algorithmus zur rationalen Hermite-Interpolation. (German) [A generalized continued fraction algorithm for rational Hermite interpolation]. *Numerische Mathematik*, 36(1):99–107, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arnold:1981:DFE

[Arn81] Douglas N. Arnold. Discretization by finite elements of a model parameter dependent problem. *Numerische Mathematik*, 37(3):405–421, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arnautu:1982:AOD

[Arn82] Viorel Arnăutu. Approximation of optimal distributed control problems governed by variational inequalities. *Numerische Mathematik*, 38(3): 393–416, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arndt:1984:NSR

[Arn84] Herbert Arndt. Numerical solution of retarded initial value problems: local and global error and stepsize control. *Numerische Mathematik*, 43(3): 343–360, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Aronson:1963:CPS

[Aro63a] D. G. Aronson. A correction to the paper "On the stability of certain finite difference approximations to parabolic systems of differential equations" [Num. Math. **5**, 118–137 (1963)]. *Numerische Mathematik*, 5(1): 290, December 1963. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Aro63b].

Aronson:1963:SCF

[Aro63b] D. G. Aronson. On the stability of certain finite difference approximations to parabolic systems of differential equations. *Numerische Mathematik*, 5(1): 118–137, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See correction [Aro63a].

Abaffy:1983:ICG

[AS83] József Abaffy and Fridrich Sloboda. Imperfect conjugate gradient algorithms for extended quadratic functions. *Numerische Mathematik*, 42(1):97–105, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Anselone:1987:NSI

[AS87] P. M. Anselone and I. H. Sloan. Numerical solutions of integral equations on the half line. I. the compact case. *Numerische Mathematik*, 51(6): 599–614, November 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alfeld:1990:DBS

[AS90] Peter Alfeld and Larry L. Schumaker. On the dimension of bivariate spline spaces of smoothness r and degree $d = 3r+1$. *Numerische Mathematik*, 57(6/7): 651–661, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Abgrall:1997:UME

[AS97a] Rémi Abgrall and Thomas Sonar. On the use of Muhlbach expansions in the recovery step of ENO methods. *Numerische Mathematik*, 76(1): 1–25, March 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076001/70760001.htm; http://science.springer.de/nmee/bibs/7076001/70760001.htm`.

Andra:1997:ISG

[AS97b] H. Andrä and E. Schnack. Integration of singular Galerkin-type boundary element integrals for 3D elasticity problems. *Numerische Mathematik*, 76(2): 143–165, April 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076002/70760143.htm; http://science.springer.de/nmee/bibs/7076002/70760143.htm`.

Ascher:1985:SDS

[Asc85] Uri Ascher. On some difference schemes for singular singularly-perturbed boundary value prob-

lems. *Numerische Mathematik*, 46(1):1–30, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Askey:1972:PCN

[Ask72] Richard Askey. Positivity of the Cotes numbers for some Jacobi abscissas. *Numerische Mathematik*, 19(1):46–48, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Aziz:1988:NMR

[ASS88] A. K. Aziz, A. B. Stephens, and Manil Suri. Numerical methods for reaction-diffusion problems with non-differentiable kinetics. *Numerische Mathematik*, 53(1/2):1–11, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Aziz:1980:FEM

[ASW80] A. K. Aziz, M. Schneider, and A. Werschulz. A finite element method for the Tricomi problem. *Numerische Mathematik*, 35(1):13–20, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arnold:1993:HER

[ASW93] M. Arnold, K. Strehmel, and R. Weiner. Half-explicit Runge–Kutta methods for semi-explicit differential-algebraic equations of index 1. *Numerische Mathematik*, 64(4):409–431, April 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Amara:1979:EFE

[AT79] M. Amara and J. M. Thomas. Equilibrium finite elements for the linear elastic problem. *Numerische Mathematik*, 33(4): 367–383, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Atkinson:1967:SNU

[Atk67] Kendall E. Atkinson. The solution of non-unique linear integral equations. *Numerische Mathematik*, 10(2): 117–124, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Atkinson:1972:NSF

[Atk72] Kendall Atkinson. The numerical solution of Fredholm integral equations of the second kind with singular kernels. *Numerische Mathematik*, 19(3): 248–259, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Atkinson:1973:IVN

[Atk73] Kendall Atkinson. Iterative variants of the Nyström method for the numerical solution of integral equations. *Numerische Mathematik*, 22(1):17–31, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Atteia:1968:FSD

[Att68] Marc Atteia. Fonctions 'spline' définies sur un ensemble convexe. (French) [Spline functions defined on a convex set]. *Numerische Mathematik*, 12(3): 192–210, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Atteia:1977:EEM

[Att77] M. Atteia. Évaluation de l'erreur dans la méthode des éléments finis. (French) [Error in the finite elements method]. *Numerische Mathematik*, 28(3): 295–306, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Albrecht:1961:DNL

[AU61] Rudolf Albrecht and Wolfram Ulrich. Ein Differenzenverfahren zur näherungsweisen Lösung des Anfangswertproblems für Systeme halblinearer partieller Differentialgleichungen. 1. Ordnung. (German) [A difference equation for approximate solution of initial value problems for half-linear partial differential equations. 1. Order]. *Numerische Mathematik*, 3:131–146, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Albrecht:1962:NTI

[AU62] R. F. Albrecht and W. Urich. Numerical treatment of the initial value problem for systems of quasilinear partial differential equations of first order. *Numerische Mathematik*, 4:253–261, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Auchmuty:1992:PEE

[Auc92] Giles Auchmuty. A posteriori error estimates for linear equations. *Numerische Mathematik*, 61(1):1–6, February 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Aumann:1963:UVL

[Aum63] Georg Aumann. Über den Vergleichsfaktor bei linearen Approximationsproblemen. (German) [On the comparison factor for linear approximation problems]. *Numerische Mathematik*, 5(1):68–72, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Auslender:1971:MNP

[Aus71] A. Auslender. Méthodes numériques pour la décomposition et la minimisation de fonctions non différentiables. (French) [Numerical methods for the decomposition and minimisation of non-differentiable functions]. *Numerische Mathematik*, 18(3): 213–223, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Auzinger:1987:DCN

[Auz87] Winfried Auzinger. Defect correction for nonlinear elliptic difference equations. *Numerische Mathematik*, 51(2): 199–208, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Auzinger:1988:QDR

[Auz88] Winfried Auzinger. A quantitative discrete H^2-regularity estimate for the Shortley–Weller scheme in convex domains. *Numerische Mathematik*, 52(5): 523–537, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1976:KSR

[AV76] G. Alefeld and R. S. Varga. Zur Konvergenz des symmetrischen Relaxationsverfahren. (German) [On the convergence of the symmetric SOR method]. *Numerische Mathematik*, 25(3): 291–295, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1985:RSM

[AV85] Götz Alefeld and Peter Volkmann. Regular splittings and monotone iteration functions. *Numerische Mathematik*, 46(2): 213–228, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Alefeld:1986:KSV

[AV86] Götz Alefeld and Peter Volkmann. Zur Konvergenz des SSOR-Verfahrens für nichtlineare Gleichungssysteme. (German) [Convergence of the SSOR-method for nonlinear systems of simultaneous equations]. *Numerische Mathematik*, 50(1): 111–121, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Axelsson:1989:AMP

[AV89] O. Axelsson and P. S. Vassilevski. Algebraic multilevel preconditioning methods. I. *Numerische Mathematik*, 56(2/3): 157–177, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arnold:1985:CSC

[AW85] Douglas N. Arnold and Wolfgang L. Wendland. The convergence of spline collocation for strongly elliptic equations on curves. *Numerische Mathematik*, 47(3):317–341, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Axelsson:1977:EEG

[Axe77] Owe Axelsson. Error estimates for Galerkin methods for quasilinear parabolic and elliptic differential equations in divergence form. *Numerische Mathematik*, 28(1):1–14, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Axelsson:1987:GCG

[Axe87] O. Axelsson. A generalized conjugate gradient, least square method. *Numerische Mathematik*, 51(2):209–227, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Allison:1983:NAN

[AY83] A. C. Allison and N. J. Young. Numerical algorithms for the Nevanlinna–Pick problem. *Numerische Mathematik*, 42(2): 125–145, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Arcangeli:1993:ASC

[AY93] Rémi Arcangéli and Bernard Ycart. Almost sure convergence of smoothing D^m-splines for noisy data. *Numerische Mathematik*, 66(3):281–294, December 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Amara:1998:EIN

[AYB98] M. Amara, M. Ben Younes, and C. Bernardi. Error indicators for the Navier–Stokes equations in stream function and vorticity formulation. *Numerische Mathematik*, 80(2): 181–206, August 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080002/80800181.htm; http://link.springer.de/link/service/journals/00211/papers/8080002/80800181.pdf; http://link.springer.de/link/service/journals/00211/papers/8080002/80800181.ps.gz`.

Babuska:1971:EBF

[Bab71] Ivo Babuška. Error-bounds for finite element method. *Numerische Mathematik*, 16(4): 322–333, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Babuska:1973:FEM

[Bab73] Ivo Babuška. The finite element method with Lagrangian multipliers. *Numerische Mathematik*, 20(3):179–192, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bacopoulos:1970:ASC

[Bac70] Alex Bacopoulos. On approximation by sums of Chebyshev norms. *Numerische Mathematik*, 16(3):243–247, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Badea:1989:GSA

[Bad89] Lori Badea. A generalization of the Schwarz alternating method to an arbitrary number of subdomains. *Numerische Mathematik*, 55(1):61–81, April 1989. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Baker:1970:EPI

[Bak70] Christopher T. H. Baker. The error in polynomial interpolation. *Numerische Mathematik*, 15(4):315–319, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bakker:1982:NGM

[Bak82] Miente Bakker. A note on C° Galerkin methods for two-point boundary problems. *Numerische Mathematik*, 38(3): 447–453, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1978:EAS

[Ban78] Randolph E. Bank. Efficient algorithms for solving tensor product finite element equations. *Numerische Mathematik*, 31(1):49–61, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Banerjee:1987:LNE

[Ban87] U. Banerjee. Lower norm error estimates for approximate solutions of differential equations with non-smooth coefficients. *Numerische Mathematik*, 51(3):303–321, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Banerjee:1992:NEN

[Ban92] Uday Banerjee. A note on the effect of numerical quadrature in finite element eigenvalue approximation. *Numerische Mathematik*, 61(2):145–152, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bao:1996:NAD

[Bao96] Gang Bao. Numerical analysis of diffraction by periodic structures: TM polarization. *Numerische Mathematik*, 75(1):1–16, November 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6075001/60750001.htm; http://science.springer.de/nmee/bibs/6075001/60750001.htm`.

Barnhill:1965:CQR

[Bar65] Robert E. Barnhill. Complex quadratures with remainders of minimum norm. *Numerische Mathematik*, 7(5):384–390, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barnhill:1968:APM

[Bar68] Robert E. Barnhill. Asymptotic properties of minimum norm and optimal quadratures. *Numerische Mathematik*, 12(5): 384–393, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bareiss:1969:NSL

[Bar69] Erwin H. Bareiss. Numerical solution of linear equations with Toeplitz and vector Toeplitz matrices. *Numerische Mathematik*, 13(5):404–424, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bartels:1971:SSM

[Bar71] Richard H. Bartels. A stabilization of the simplex method. *Numerische Mathematik*, 16(5): 414–434, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barker:1972:MN

[Bar72] George Phillip Barker. Monotone norms. *Numerische Mathematik*, 18(4):321–326, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bartke:1984:SNR

[Bar84] Klaus Bartke. Die Struktur der normalen rationalen Funktionen. (German) [The structure of normal rational functions]. *Numerische Mathematik*, 43(3):379–388, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barlow:1991:EAP

[Bar91a] Jesse L. Barlow. Error analysis of a pairwise summation algorithm to compute the sample variance. *Numerische Mathematik*, 58(6):583–590, January 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrlund:1991:CLS

[Bar91b] Anders Barrlund. Constrained least squares methods for linear time varying DAE systems. *Numerische Mathematik*, 60(2): 145–161, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barlow:1993:PRN

[Bar93] Jesse L. Barlow. Perturbation results for nearly uncoupled Markov chains with applications to iterative methods. *Numerische Mathematik*, 65(1): 51–62, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Batterson:1990:CSA

[Bat90] Steve Batterson. Convergence of the shifted QR algorithm on 3×3 normal matrices. *Numerische Mathematik*, 58(4): 341–352, November 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1961:FGK

[Bau61] F. L. Bauer. A further generalization of the Kantorovic inequality. *Numerische Mathematik*, 3:117–119, December 1961. CODEN NUMMA7. ISSN

0029-599X (print), 0945-3245 (electronic).

Bauer:1962:FVS

[Bau62] F. L. Bauer. On the field of values subordinate to a norm. *Numerische Mathematik*, 4:103–113, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1963:OSM

[Bau63] F. L. Bauer. Optimally scaled matrices. *Numerische Mathematik*, 5(1):73–87, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1965:EPH

[Bau65a] F. L. Bauer. An elementary proof of the Hopf inequality for positive operators. *Numerische Mathematik*, 7(4):331–337, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1965:EWR

[Bau65b] F. L. Bauer. Elimination with weighted row combinations for solving linear equations and least squares problems. *Numerische Mathematik*, 7(4):338–352, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 119–133].

Bauer:1966:ISR

[Bau66] F. L. Bauer. Inclusion sets for roots of polynomials. *Numerische Mathematik*, 9(2):173–176, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1968:FVG

[Bau68] F. L. Bauer. Fields of values and Gershgorin disks. *Numerische Mathematik*, 12(2):91–95, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1969:ROS

[Bau69] F. L. Bauer. Remarks on optimally scaled matrices. *Numerische Mathematik*, 13(1):1–3, March 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baumeister:1976:ENI

[Bau76] J. Baumeister. Über die Extremaleigenschaft nichtlinearer interpolierender Splines. (German) [On the extremal property of nonlinear interpolating splines]. *Numerische Mathematik*, 25(4):433–445, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brenner:1962:PSI

[BB62] C. Brenner and J. L. Brenner. The popularity of small integers as primitive roots. *Numerische Mathematik*, 4:336–342, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bieterman:1982:FEMa

[BB82a] M. Bieterman and I. Babuška. The finite element method for parabolic equations. I. A posteriori error estimation. *Numerische Mathematik*, 40(3): 339–371, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bieterman:1982:FEMb

[BB82b] M. Bieterman and I. Babuška. The finite element method for parabolic equations. II. A posteriori error estimation and adaptive approach. *Numerische Mathematik*, 40(3): 373–406, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Braess:1990:MMP

[BB90] D. Braess and C. Blömer. A multigrid method for a parameter dependent problem in solid mechanics. *Numerische Mathematik*, 57(8):747–761, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1992:HBM

[BB92] Randolph E. Bank and Mohamed Benbourenane. The hierarchical basis multigrid method for convection-diffusion equations. *Numerische Mathematik*, 61(1):7–37, February 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1995:EBF

[BB95] John W. Barrett and James F. Blowey. An error bound for the finite element approximation of the Cahn–Hilliard equation with logarithmic free energy. *Numerische Mathematik*, 72(1):1–20, November 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072001/50720001.htm; http://science.springer.de/nmee/bibs/5072001/50720001.htm`.

Barrett:1997:FEA

[BB97] John W. Barrett and James F. Blowey. Finite element approximation of a model for phase separation of a multi-component alloy with non-smooth free energy. *Numerische Mathematik*, 77(1):1–34, July 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077001/70770001.htm; http://science.springer.de/nmee/bibs/7077001/70770001.htm`.

Bojanczyk:1986:FTM

[BBdH86] A. W. Bojánczyk, R. P. Brent, and F. R. de Hoog. *QR* factorization of Toeplitz matrices. *Numerische Mathematik*, 49(1): 81–94, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1990:SUT

[BBFS90] Randolph E. Bank, Josef F. Bürgler, Wolfgang Fichtner, and R. Kent Smith. Some upwinding techniques for finite element approximations of convection-diffusion equations. *Numerische Mathematik*, 58(2): 185–202, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Backus:1960:RAL

[BBG+60] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Report on the algorithmic language Algol 60. *Numerische Mathematik*, 2(1):106–136, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `https://link.springer.com/article/10.1007/BF01386216`.

Backus:1963:RRA

[BBG+63] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Revised report on the algorithmic language ALGOL 60. *Numerische Mathematik*, 4:420–453, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Edited by Peter Naur. Dedicated to the memory of William Turanski.

Barrett:1998:FEA

[BBG98] John W. Barrett, James F. Blowey, and Harald Garcke. Finite element approximation of a fourth order nonlinear degenerate parabolic equation. *Numerische Mathematik*, 80(4): 525–556, October 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080004/80800525.htm; http://link.springer.de/link/service/journals/00211/papers/8080004/80800525.pdf`.

Blum:1978:CGM

[BC78] E. K. Blum and A. R. Curtis. A convergent gradient method for matrix eigenvector-eigentuple problems. *Numerische Mathematik*, 31(3):247–263, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1991:FEAb

[BC91] John W. Barrett and Roma Chakrabarti. Finite element approximation of the volume-matching problem. *Numerische Mathematik*, 60(3): 291–313, December 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Butcher:1992:SGM

[BC92] J. C. Butcher and R. P. K. Chan. On symmetrizers for Gauss methods. *Numerische Mathematik*, 60(4):465–476, January 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1993:ACS

[BC93] Randolph E. Bank and Tony F. Chan. An analysis of the composite step biconjugate gradient method. *Numerische Mathematik*, 66(3):295–319, December 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezzi:1986:HGA

[BCD86] F. Brezzi, M. Cornalba, and A. Di Carlo. How to get around a simple quadratic fold. *Numerische Mathematik*, 48(4): 417–427, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brink:1996:SCB

[BCS96] Ulrich Brink, Carsten Carstensen, and Erwin Stein. Symmetric coupling of boundary elements and Raviart–Thomas-type mixed finite elements in elastostatics. *Numerische Mathematik*, 75(2):153–174, December 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6075002/60750153.htm`; `http://science.springer.de/nmee/bibs/6075002/60750153.htm`.

Brown:1968:NLI

[BD68] Kenneth M. Brown and J. E. Dennis, Jr. On Newton-like iteration functions: General convergence theorems and a specific algorithm. *Numerische Mathematik*, 12(3):186–191, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brown:1972:DFA

[BD72] Kenneth M. Brown and J. E. Dennis, Jr. Derivative free analogues of the Levenberg–Marquardt and Gauss algorithms for nonlinear least squares approximation. *Numerische Mathematik*, 18(4): 289–298, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Beavers:1973:CME

[BD73] A. N. Beavers, Jr. and E. D. Denman. A computational method for eigenvalues and eigenvectors of a matrix with real eigenvalues. *Numerische Mathematik*, 21(5):389–396, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bain:1977:CRE

[BD77] M. Bain and L. M. Delves. The convergence rates of expansions in Jacobi polynomials. *Numerische Mathematik*, 27(2):

219–225, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Babuska:1981:EEC

[BD81] Ivo Babuška and Milo R. Dorr. Error estimates for the combined h and p versions of the finite element method. *Numerische Mathematik*, 37(2): 257–277, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bernadou:1982:AGA

[BD82] M. Bernadou and Y. Ducatel. Approximation of general arch problems by straight beam elements (elasticity). *Numerische Mathematik*, 40(1):1–29, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bader:1983:SIM

[BD83] G. Bader and P. Deuflhard. A semi-implicit mid-point rule for stiff systems of ordinary differential equations. *Numerische Mathematik*, 41(3): 373–398, July 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezzi:1988:SMM

[BD88] Franco Brezzi and Jim Douglas, Jr. Stabilized mixed methods for the Stokes problem. *Numerische Mathematik*, 53(1/2): 225–235, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bornemann:1996:CMM

[BD96] Folkmar A. Bornemann and Peter Deuflhard. The cascadic multigrid method for elliptic problems. *Numerische Mathematik*, 75(2):135–152, December 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6075002/60750135.htm; http://science.springer.de/nmee/bibs/6075002/60750135.htm`.

Bialecki:1997:MAM

[BD97] Bernard Bialecki and Maksymilian Dryja. Multilevel additive and multiplicative methods for orthogonal spline collocation problems. *Numerische Mathematik*, 77(1): 35–58, July 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077001/70770035.htm; http://science.springer.de/nmee/bibs/7077001/70770035.htm`.

Bansch:1998:AFE

[BD98] E. Bänsch and W. Dörfler. Adaptive finite elements for exterior domain problems. *Numerische Mathematik*, 80(4): 497–523, October 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/`

journals/00211/bibs/8080004/80800497.htm; http://link.springer.de/link/service/journals/00211/papers/8080004/80800497.pdf.

Braess:1999:CMA

[BD99] Dietrich Braess and Wolfgang Dahmen. A cascadic multigrid algorithm for the Stokes equations. *Numerische Mathematik*, 82(2):179–191, April 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082002/90820179.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082002/90820179.pdf.

Brezzi:1987:MFE

[BDDF87] Franco Brezzi, Jim Douglas, Jr., Ricardo Durán, and Michel Fortin. Mixed finite elements for second order elliptic problems in three variables. *Numerische Mathematik*, 51(2): 237–250, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bai:1997:IFP

[BDG97] Zhaojun Bai, James Demmel, and Ming Gu. An inverse free parallel spectral divide and conquer algorithm for nonsymmetric eigenproblems. *Numerische Mathematik*, 76(3): 279–308, May 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7076003/70760279.htm; http://science.springer.de/nmee/bibs/7076003/70760279.htm.

Brezzi:1985:TFM

[BDM85] Franco Brezzi, Jim Douglas, Jr., and L. D. Marini. Two families of mixed finite elements for second order elliptic problems. *Numerische Mathematik*, 47(2): 217–235, September 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brenner:1972:PMS

[BdP72] J. L. Brenner and J. de Pillis. Partitioned matrices and Seidel convergence. *Numerische Mathematik*, 19(1):76–80, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baker:1980:ATS

[BDS80] Garth A. Baker, Vassilios A. Dougalis, and Steven M. Serbin. An approximation theorem for second-order evolution equations. *Numerische Mathematik*, 35(2):127–142, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bernadou:1988:ACC

[BDT88] M. Bernadou, Y. Ducatel, and P. Trouvé. Approximation of a circular cylindrical shell by Clough-Johnson flat plate finite

elements. *Numerische Mathematik*, 52(2):187–217, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1988:HBM

[BDY88] Randolph E. Bank, Todd F. Dupont, and Harry Yserentant. The hierarchical basis multigrid method. *Numerische Mathematik*, 52(4):427–458, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bjorck:1973:ACV

[BE73] Åke Björck and Tommy Elfving. Algorithms for confluent Vandermonde systems. *Numerische Mathematik*, 21(2): 130–137, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1986:FEA

[BE86] John W. Barrett and Charles M. Elliott. Finite element approximation of the Dirichlet problem using the boundary penalty method. *Numerische Mathematik*, 49(4):343–366, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1987:PFE

[BE87] John W. Barrett and Charles M. Elliott. A practical finite element approximation of a semidefinite Neumann problem on a curved domain. *Numerische Mathematik*, 51(1):23–36, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Beauwens:1979:FIM

[Bea79] Robert Beauwens. Factorization iterative methods, M-operators and H-operators. *Numerische Mathematik*, 31(4): 335–357, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Bea86a].

Beauwens:1986:EIM

[Bea86a] R. Beauwens. Erratum: "Factorization iterative methods, M-operators and H-operators" [Numer. Math. **31** 1978/1979, no. 4, 335–357 and MR 81e:65014]. *Numerische Mathematik*, 49(4):457, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Bea79].

Beauzamy:1986:JIP

[Bea86b] Bernard Beauzamy. Jensen's inequality for polynomials with concentration at low degrees. *Numerische Mathematik*, 49 (2/3):221–225, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Busch:1975:EAM

[BEHH75] W. Busch, R. Esser, W. Hackbusch, and U. Herrmann. Extrapolation applied to the method of characteristics for a first order system of two partial

differential equations. I. the initial value problem. *Numerische Mathematik*, 24(4):331–353, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bellen:1983:MMP

[Bel83] A. Bellen. Monotone methods for periodic solutions of second order scalar functional-differential equations. *Numerische Mathematik*, 42(1):15–30, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Benders:1962:PPS

[Ben62] J. F. Benders. Partitioning procedures for solving mixed-variables programming problems. *Numerische Mathematik*, 4:238–252, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bennett:1964:IEM

[Ben64] J. H. Bennett. Integral equation methods for transport problems. some numerical results. *Numerische Mathematik*, 6(1):49–54, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bennett:1965:TFM

[Ben65] John M. Bennett. Triangular factors of modified matrices. *Numerische Mathematik*, 7 (3):217–221, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Benbourhim:1986:SAH

[Ben86] Mohammed-Najib Benbourhim. Spline approximant in Hilbertian subspaces of ⌋(Ω). *Numerische Mathematik*, 49(2/3): 291–303, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Buttgenbach:1993:CEB

[BEN93] B. Büttgenbach, H. Esser, and R. J. Nessel. On the comparison of error bounds for finite difference schemes. *Numerische Mathematik*, 64(4): 477–486, April 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

BenBelgacem:1999:MFE

[Ben99] Faker Ben Belgacem. The Mortar finite element method with Lagrange multipliers. *Numerische Mathematik*, 84 (2):173–197, December 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084002/90840173.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084002/90840173.pdf`.

Bertram:1959:FGS

[Ber59a] G. Bertram. Eine Fehlerabschätzung für gewisse selbstadjungierte, gewöhnliche Randwertaufgaben. (German) [An er-

ror estimate for certain adjoint ordinary boundary value problems]. *Numerische Mathematik*, 1(1):181–185, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=181`.

Bertram:1959:VFR

[Ber59b] G. Bertram. Verschärfung einer Fehlerabschätzung zum Ritz–Galerkinschen Verfahren von Kryloff für Randwertaufgaben. (German) [Tightening of an error bound for the Ritz–Galerkin method for Krylov boundary value problems]. *Numerische Mathematik*, 1:135–141, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See correction [Ber60].

Bertram:1960:BMA

[Ber60] G. Bertram. Berichtigung zu meinen Arbeit „Verschärfung einer Fehlerabschätzung ... [Num. Math. **1**, 135–141 (1959)]. (German) [Correction to my paper "Tightening of an error bound ..."]. *Numerische Mathematik*, 2(1):54, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Ber59b].

Bereanu:1972:CCM

[Ber72] Bernard Bereanu. On the convergence of Cartesian multidimensional quadrature formulae. *Numerische Mathematik*, 19(4): 348–350, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Berger:1973:EEF

[Ber73] Alan E. Berger. L^2 error estimates for finite elements with interpolated boundary conditions. *Numerische Mathematik*, 21(4): 345–349, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bernardi:1982:AHB

[Ber82] C. Bernardi. Approximation of Hopf bifurcation. *Numerische Mathematik*, 39(1):15–37, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bernstein:1984:ABM

[Ber84] Herbert J. Bernstein. An accelerated bisection method for the calculation of eigenvalues of a symmetric tridiagonal matrix. *Numerische Mathematik*, 43(1): 153–160, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Berger:1989:CFE

[Ber89a] Harald Berger. A convergent finite element formulation for transonic flow. *Numerische Mathematik*, 56(5): 425–447, November 1989. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Berrut:1989:BFC

[Ber89b] Jean-Paul Berrut. Barycentric formulae for cardinal (SINC-) interpolants. *Numerische Mathematik*, 54(6):703–718, March 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Ber89c].

Berrut:1989:EFC

[Ber89c] Jean-Paul Berrut. Erratum: "Barycentric formulae for cardinal (SINC-)interpolants". *Numerische Mathematik*, 55(6): 747, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Ber89b].

Bermejo:1991:AAG

[Ber91] Rodolfo Bermejo. Analysis of an algorithm for the Galerkin-characteristic method. *Numerische Mathematik*, 60(2): 163–194, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bertoluzza:1997:IEW

[Ber97] Silvia Bertoluzza. Interior estimates for the wavelet Galerkin method. *Numerische Mathematik*, 78(1):1–20, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078001/70780001.htm; http://science.springer.de/nmee/bibs/7078001/70780001.htm`.

Bettis:1970:NIP

[Bet70] D. G. Bettis. Numerical integration of products of Fourier and ordinary polynomials. *Numerische Mathematik*, 14(5): 421–434, April 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=14&issue=5&spage=421`.

Beyn:1978:SDS

[Bey78] Wulf-Jürgen Beyn. Zur Stabilität von Differenzenverfahren für Systeme linearer gewöhnlicher Randwertaufgaben. (German) [On the stability of difference approximations to systems of linear ordinary boundary value problems]. *Numerische Mathematik*, 29(2):209–226, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Beyn:1987:ICC

[Bey87] Wolf-Jürgen Beyn. On invariant closed curves for one-step methods. *Numerische Mathematik*, 51(1):103–122, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1960:NET

[BF60] F. L. Bauer and C. T. Fike. Norms and exclusion theorems. *Numerische Mathematik*, 2(1): 137–141, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bradbury:1966:NIM

[BF66a] W. W. Bradbury and R. Fletcher. New iterative methods for solution of the eigenproblem. *Numerische Mathematik*, 9(3):259–267, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Broyden:1966:ASC

[BF66b] C. G. Broyden and F. Ford. An algorithm for the solution of certain kinds of linear equations. *Numerische Mathematik*, 8(4):307–323, June 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bosarge:1970:IDM

[BF70] W. E. Bosarge, Jr. and Peter L. Falb. Infinite dimensional multipoint methods and the solution of two point boundary value problems. *Numerische Mathematik*, 14(3):264–286, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Berens:1990:CSM

[BF90] H. Berens and M. Finzel. A continuous selection of the metric projection in matrix spaces, addendum. *Numerische Mathematik*, 57(6/7):663–667, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Brass:1999:EBR

[BF99] H. Brass and J.-W. Fischer. Error bounds for Romberg quadrature. *Numerische Mathematik*, 82(3):389–408, May 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082003/90820389.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082003/90820389.pdf`.

Businger:1965:LLS

[BG65] Peter A. Businger and Gene H. Golub. Linear least squares solutions by Householder transformations. *Numerische Mathematik*, 7(3):269–276, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 111–118].

Brown:1971:DTC

[BG71] Kenneth M. Brown and William B. Gearhart. Deflation techniques for the calculation of further solutions of a nonlinear system. *Numerische Mathematik*, 16(4): 334–342, January 1971. CO-

DEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barnhill:1976:IRT

[BG76a] Robert E. Barnhill and John A. Gregory. Interpolation remainder theory from Taylor expansions on triangles. *Numerische Mathematik*, 25(4): 401–408, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barnhill:1976:SKT

[BG76b] Robert E. Barnhill and John A. Gregory. Sard kernel theorems on triangular domains with application to finite element error bounds. *Numerische Mathematik*, 25(3):215–229, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Blum:1978:NSE

[BG78] E. K. Blum and P. B. Geltner. Numerical solution of eigentuple-eigenvector problems in Hilbert spaces by a gradient method. *Numerische Mathematik*, 31(3):231–246, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bini:1994:ISD

[BG94] Dario Bini and Luca Gemignani. Iteration schemes for the divide-and-conquer eigenvalue solver. *Numerische Mathematik*, 67(4): 403–425, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067004/40670403.htm; http://science.springer.de/nmee/bibs/4067004/40670403.htm`.

Beattie:1995:MCL

[BG95] Christopher Beattie and Friedrich Goerisch. Methods for computing lower bounds to eigenvalues of self-adjoint operators. *Numerische Mathematik*, 72(2): 143–172, December 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072002/50720143.htm; http://science.springer.de/nmee/bibs/5072002/50720143.htm`.

Bunse-Gerstner:1989:QA

[BGBM89] Angelika Bunse-Gerstner, Ralph Byers, and Volker Mehrmann. A quaternion QR algorithm. *Numerische Mathematik*, 55(1): 83–95, April 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bunse-Gerstner:1991:NCA

[BGBMN91] Angelika Bunse-Gerstner, Ralph Byers, Volker Mehrmann, and Nancy K. Nichols. Numerical computation of an analytic singular value decomposition of a matrix valued function. *Numerische Mathematik*, 60(1):1–39, November 1991. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1979:ES

[BGHS79] F. L. Bauer, G. H. Golub, A. S. Householder, and K. Samelson. Eduard L. Stiefel: 4/21/1909–11/27/1978. *Numerische Mathematik*, 32(4):480–481, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). With a German translation.

Bauer:1960:MCR

[BH60a] F. L. Bauer and A. S. Householder. Moments and characteristic roots. *Numerische Mathematik*, 2(1):42–53, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1960:SII

[BH60b] F. L. Bauer and A. S. Householder. Some inequalities involving the Euclidean condition of a matrix. *Numerische Mathematik*, 2(1):308–311, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1961:ANC

[BH61a] F. L. Bauer and A. S. Householder. Absolute norms and characteristic roots. *Numerische Mathematik*, 3:241–246, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bergman:1961:AMK

[BH61b] Stefan Bergman and John G. Herriot. Application of the method of the kernel function for solving boundary- value problems. *Numerische Mathematik*, 3:209–225, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bramble:1962:FFD

[BH62] J. H. Bramble and B. E. Hubbard. On the formulation of finite difference analogues of the Dirichlet problem for Poisson's equation. *Numerische Mathematik*, 4:313–327, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bergmann:1965:NSB

[BH65] Stefan Bergmann and John G. Herriot. Numerical solution of boundary-value problems by the method of integral operators. *Numerische Mathematik*, 7(1): 42–65, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bergman:1971:CCS

[BH71a] S. Bergman and J. G. Herriot. Computation of a class of subsonic flow patterns. *Numerische Mathematik*, 17(3): 247–252, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bramble:1971:BCL

[BH71b] J. H. Bramble and S. R. Hilbert. Bounds for a class of linear functionals with applications to Hermite interpolation. *Numerische Mathematik*, 16(4): 362–369, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Braess:1973:SIZ

[BH73] D. Braess and K. P. Hadeler. Simultaneous inclusion of the zeros of a polynomial. *Numerische Mathematik*, 21(2): 161–165, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brosowski:1974:VAG

[BH74] Bruno Brosowski and K.-H. Hoffmann. Eine Variationsungleichung und Anwendungen. (German) [A variational inequality and its application]. *Numerische Mathematik*, 22(2): 137–147, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1987:MJH

[BH87] F. L. Bauer and A. S. Householder. In memoriam: J. H. Wilkinson (1919–1986). *Numerische Mathematik*, 51(1): 1–2, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bojanov:1990:COQ

[BH90] Borislav Bojanov and Daren Huang. Comparison of optimal quadrature formulas. *Numerische Mathematik*, 56(8): 817–825, February 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barbosa:1992:BLM

[BH92a] Helio J. C. Barbosa and Thomas J. R. Hughes. Boundary Lagrange multipliers in finite element methods: error analysis in natural norms. *Numerische Mathematik*, 62(1):1–15, June 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bartels:1992:SSV

[BH92b] Sven G. Bartels and Desmond J. Higham. The structured sensitivity of Vandermonde-like systems. *Numerische Mathematik*, 62(1):17–33, June 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bshouty:1988:CMS

[BHH88] D. Bshouty, N. Hengartner, and W. Hengartner. A constructive method for starlike harmonic mappings. *Numerische Mathematik*, 54(2):167–178, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Berry:1985:ACS

[BHK+85] M. W. Berry, M. T. Heath, I. Kaneko, M. Lawo, R. J. Plemmons, and R. C. Ward. An algorithm to compute a

sparse basis of the null space. *Numerische Mathematik*, 47(4): 483–504, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Buchauer:1994:SAI

[BHK94] O. Buchauer, P. Hiltmann, and M. Kiehl. Sensitivity analysis of initial-value problems with application to shooting techniques. *Numerische Mathematik*, 67(2): 151–159, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670151.htm; http://science.springer.de/nmee/bibs/4067002/40670151.htm`.

Brezzi:1977:EEF

[BHR77] Franco Brezzi, William W. Hager, and P. A. Raviart. Error estimates for the finite element solution of variational inequalities. I. primal theory. *Numerische Mathematik*, 28(4): 431–443, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezzi:1978:EEF

[BHR78] Franco Brezzi, William W. Hager, and P.-A. Raviart. Error estimates for the finite element solution of variational inequalities. II. mixed methods. *Numerische Mathematik*, 31(1): 1–16, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bialecki:1990:SQR

[Bia90] Bernard Bialecki. A Sinc quadrature rule for Hadamard finite-part integrals. *Numerische Mathematik*, 57(3): 263–269, May 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bialecki:1991:ADI

[Bia91] Bernard Bialecki. An alternating direction implicit method for orthogonal spline collocation linear systems. *Numerische Mathematik*, 59(5):413–429, August 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bittner:1964:UMI

[Bit64] L. Bittner. Über ein mehrstufiges Iterationsverfahren zur Lösung von linearen Gleichungen. (German) [On a more layered iteration method for solution of linear equations]. *Numerische Mathematik*, 6(1):161–180, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bittner:1968:AVH

[Bit68] L. Bittner. Abschätzungen bei Variationsmethoden mit Hilfe von Dualitätssätzen. I. (German) [Bounds of the variational method with the aid of the duality principle. I]. *Numerische Mathematik*, 11(2):

129–143, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bittner:1970:SRT

[Bit70] L. Bittner. Some representation theorems for functions and sets and their application to nonlinear programming. *Numerische Mathematik*, 16(1):32–51, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bittner:1971:AVH

[Bit71] L. Bittner. Abschätzungen bei Variationsmethoden mit Hilfe von Dualitätssätzen. II. (German) [Bounds of the variational method with the aid of the duality principle. II]. *Numerische Mathematik*, 16(4):285–303, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bittner:1991:NSP

[Bit91] Leonhard Bittner. A numerical sampling problem and the Weyl pseudorandom numbers. *Numerische Mathematik*, 59(7):637–645, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bakke:1985:SRQ

[BJ85a] V. L. Bakke and Z. Jackiewicz. Stability of reducible quadrature methods for Volterra integral equations of the second kind. *Numerische Mathematik*, 47(2):159–173, September 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baltus:1985:TEB

[BJ85b] Christopher Baltus and William B. Jones. Truncation error bounds for limit-periodic continued fractions $K(a_n/1)$ with $\lim a_n = 0$. *Numerische Mathematik*, 46(4):541–569, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bakke:1986:SAP

[BJ86] V. L. Bakke and Z. Jackiewicz. Stability analysis of product θ-methods for Abel integral equations of the second kind. *Numerische Mathematik*, 48(2):127–136, February 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baltus:1989:TEB

[BJ89] Christopher Baltus and William B. Jones. Truncation error bounds for modified continued fractions with applications to special functions. *Numerische Mathematik*, 55(3):281–307, June 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bjorck:1988:DMS

[Bjö88] Åke Björck. A direct method for sparse least squares problems with lower and upper bounds. *Numerische Mathematik*, 54(1):

19–32, October 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bellen:1988:SAO

[BJZ88] A. Bellen, Z. Jackiewicz, and M. Zennaro. Stability analysis of one-step methods for neutral delay-differential equations. *Numerische Mathematik*, 52(6): 605–619, June 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Biegler-Konig:1981:NIP

[BK81] Friedrich W. Biegler-König. A Newton iteration process for inverse eigenvalue problems. *Numerische Mathematik*, 37(3): 349–354, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brewster:1984:NSR

[BK84] M. E. Brewster and R. Kannan. Nonlinear successive overrelaxation. *Numerische Mathematik*, 44(2):309–315, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ball:1987:NMD

[BK87] J. M. Ball and G. Knowles. A numerical method for detecting singular minimizers. *Numerische Mathematik*, 51(2): 181–197, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bernardi:1996:MSP

[BK96] Christine Bernardi and Andreas Karageorghis. Méthodes spectrales dans une portion de disque. (French) [Spectral methods in a part of the disk]. *Numerische Mathematik*, 73(3): 265–289, May 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073003/60730265.htm; http://science.springer.de/nmee/bibs/6073003/60730265.htm`.

Beyn:1998:NTE

[BK98] Wolf-Jürgen Beyn and Winfried Kleß. Numerical Taylor expansions of invariant manifolds in large dynamical systems. *Numerische Mathematik*, 80(1):1–38, July 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080001/80800001.htm; http://link.springer.de/link/service/journals/00211/papers/8080001/80800001.pdf; http://link.springer.de/link/service/journals/00211/papers/8080001/80800001.ps.gz`.

Bunch:1976:DSM

[BKP76] James R. Bunch, Linda Kaufman, and Beresford N. Parlett. Decomposition of a symmetric matrix. *Numerische Mathematik*, 27(1):95–109, March

1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Babuska:1979:DIE

[BKP79] I. Babuška, R. B. Kellogg, and J. Pitkäranta. Direct and inverse error estimates for finite elements with mesh refinements. *Numerische Mathematik*, 33(4): 447–471, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brosowski:1967:ERT

[BL67] Bruno Brosowski and Henry L. Loeb. Zur Eindeutigkeit der rationalen Tschebyscheff-Approximation an stetig differenzierbare Funktionen. (German) [On the uniqueness of rational Chebyshev approximation of continuous differentiable functions]. *Numerische Mathematik*, 10(1):51–55, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrar:1970:CMN

[BL70a] Richard B. Barrar and Henry L. Loeb. On the convergence in measure of non-linear Chebyshev approximations. *Numerische Mathematik*, 14(3): 305–312, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrar:1970:RAN

[BL70b] Richard B. Barrar and Henry L. Loeb. On the Remez algorithm for non-linear families. *Numerische Mathematik*, 15(5): 382–391, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrar:1974:AEM

[BL74] R. B. Barrar and Henry L. Loeb. Analytic extended monosplines. *Numerische Mathematik*, 22(2): 119–125, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrar:1976:MZA

[BL76] R. B. Barrar and Henry L. Loeb. Multiple zeros and applications to optimal linear functionals. *Numerische Mathematik*, 25(3): 251–262, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Belogus:1978:DIA

[BL78] David Belogus and Nadav Liron. DCR2: an improved algorithm for ℓ_∞ rational approximation on intervals. *Numerische Mathematik*, 31(1):17–29, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bini:1980:SFA

[BL80] Dario Bini and Grazia Lotti. Stability of fast algorithms for

matrix multiplication. *Numerische Mathematik*, 36(1):63–72, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bozzini:1981:AMF

[BL81] M. Bozzini and L. Lenarduzzi. Approximation of multivariable functions with respect to random points less than 2^k, k dimension of space. *Numerische Mathematik*, 37(2): 193–203, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Banerjee:1986:ASF

[BL86a] U. Banerjee and A. Lutoborski. Approximation of the solution of a fourth-order boundary value problem with nonsmooth coefficient. *Numerische Mathematik*, 50(2):125–145, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Blanchard:1986:NAE

[BL86b] D. Blanchard and P. Le Tallec. Numerical analysis of the equations of small strains quasistatic elastoviscoplasticity. *Numerische Mathematik*, 50(2): 147–169, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Birkhoff:1990:SCQ

[BL90] Garrett Birkhoff and Robert E. Lynch. Some current questions on solving linear elliptic problems. *Numerische Mathematik*, 57(6/7):527–545, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Bahlmann:1992:FSF

[BL92] Dieter Bahlmann and Ulrich Langer. A fast solver for the first biharmonic boundary value problem. *Numerische Mathematik*, 63(3):297–313, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1993:FEE

[BL93] John W. Barrett and W. B. Liu. Finite element error analysis of a quasi-Newtonian flow obeying the Carreau or power law. *Numerische Mathematik*, 64(4):433–453, April 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1994:QNE

[BL94] John W. Barrett and W. B. Liu. Quasi-norm error bounds for the finite element approximation of a non-Newtonian flow. *Numerische Mathematik*, 68(4): 437–456, October 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068004/`

40680437.htm; http://science.springer.de/nmee/bibs/4068004/40680437.htm.

Boffi:1997:ANA

[BL97] Daniele Boffi and Carlo Lovadina. Analysis of new augmented Lagrangian formulations for mixed finite element schemes. *Numerische Mathematik*, 75(4):405–419, February 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7075004/70750405.htm; http://science.springer.de/nmee/bibs/7075004/70750405.htm.

Blair:1972:EBS

[Bla72] J. J. Blair. Error bounds for the solution of nonlinear two-point boundary value problems by Galerkin's method. *Numerische Mathematik*, 19(2):99–109, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Blatt:1977:RTA

[Bla77a] Hans-Peter Blatt. Rationale Tschebyscheff-Approximation über unbeschränkten Intervallen. (German) [Rational Chebyshev approximation on unbounded intervals]. *Numerische Mathematik*, 27(2): 179–190, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Blatt:1977:SRA

[Bla77b] Hans-Peter Blatt. Zur Stetigkeit rationaler T-Approximationen über unbeschränkten Intervallen. (German) [Continuity of best rational approximations on unbounded intervals]. *Numerische Mathematik*, 27(2): 191–202, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Borwein:1995:MER

[BLLN95] J. M. Borwein, A. S. Lewis, M. N. Limber, and D. Noll. Maximum entropy reconstruction using derivative information. II. computational results. *Numerische Mathematik*, 69(3): 243–256, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5069003/50690243.htm; http://science.springer.de/nmee/bibs/5069003/50690243.htm.

Blum:1986:AEE

[BLR86] H. Blum, Q. Lin, and R. Rannacher. Asymptotic error expansion and Richardson extrapolation for linear finite elements. *Numerische Mathematik*, 49(1): 11–37, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Blanchard:1989:NAE

[BLR89] Dominique Blanchard, Patrick Le Tallec, and Michel Ravachol. Numerical analysis of

evolution problems in nonlinear small strains elastoviscoplasticity. *Numerische Mathematik*, 55 (2):177–195, May 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Blum:1961:SPE

[Blu61] M. Blum. A stagewise parameter estimation procedure for correlated data. *Numerische Mathematik*, 3:202–208, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrar:1974:EOI

[BLW74] R. B. Barrar, Henry L. Loeb, and Helmut Werner. On the existence of optimal integration formulas for analytic functions. *Numerische Mathematik*, 23(2): 105–117, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brunovsky:1984:SSP

[BM84] Pavol Brunovský and Pavol Meravý. Solving systems of polynomial equations by bounded and real homotopy. *Numerische Mathematik*, 43(3): 397–418, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Belbas:1987:AFP

[BM87] S. A. Belbas and I. D. Mayergoyz. Applications of fixed-point methods to discrete variational and quasi-variational inequalities. *Numerische Mathematik*, 51(6):631–654, November 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Buhmann:1992:SPN

[BM92] Martin D. Buhmann and Charles A. Micchelli. Spline prewavelets for non-uniform knots. *Numerische Mathematik*, 61(4): 455–474, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baratella:1996:AEB

[BM96] Paola Baratella and Paola Moroni. Asymptotic error bounds of product formulas for functions with interior singularity. *Numerische Mathematik*, 74(2): 137–151, August 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074002/60740137.htm; http://science.springer.de/nmee/bibs/6074002/60740137.htm`.

Bernardi:1987:SAP

[BMM87] Christine Bernardi, Yvon Maday, and Brigitte Métivet. Spectral approximation of the periodic-nonperiodic Navier–Stokes equations. *Numerische Mathematik*, 51(6):655–700, November 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bogues:1981:IME

[BMP81] Katrina Bogues, Corbett R. Morrow, and Thomas N. L.

Patterson. An implementation of the method of Ermakov and Zolotukhin for multidimensional integration and interpolation. *Numerische Mathematik*, 37(1):49–60, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bai:1999:BAT

[BMPS99] Zhong-Zhi Bai, Violeta Migallón, José Penadés, and Daniel B. Szyld. Block and asynchronous two-stage methods for mildly nonlinear systems. *Numerische Mathematik*, 82(1):1–20, March 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082001/90820001.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082001/90820001.pdf`.

Bowdler:1966:SRC

[BMPW66] H. J. Bowdler, R. S. Martin, G. Peters, and J. H. Wilkinson. Solution of real and complex systems of linear equations. *Numerische Mathematik*, 8(3): 217–234, May 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 93–110].

Bocharov:1996:NSL

[BMR96] G. A. Bocharov, G. I. Marchuk, and A. A. Romanyukha. Numerical solution by LMMs of stiff delay differential systems modelling an immune response. *Numerische Mathematik*, 73(2): 131–148, April 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073002/60730131.htm; http://science.springer.de/nmee/bibs/6073002/60730131.htm`.

Bowdler:1968:ASM

[BMRW68] Hilary J. Bowdler, R. S. Martin, C. Reinsch, and J. H. Wilkinson. The QR and QL algorithms for symmetric matrices. *Numerische Mathematik*, 11(4): 293–306, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 227–240].

Benner:1998:NSS

[BMX98] Peter Benner, Volker Mehrmann, and Hongguo Xu. A numerically stable, structure preserving method for computing the eigenvalues of real Hamiltonian or symplectic pencils. *Numerische Mathematik*, 78(3):329–358, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078003/70780329.htm; http://science.springer.de/nmee/bibs/7078003/70780329.htm`.

Bunch:1978:USV

[BN78] James R. Bunch and Christo-

pher P. Nielsen. Updating the singular value decomposition. *Numerische Mathematik*, 31(2):111–129, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brunner:1981:SCM

[BN81] Hermann Brunner and Syvert P. Nørsett. Superconvergence of collocation methods for Volterra and Abel integral equations of the second kind. *Numerische Mathematik*, 36(4): 347–358, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Boland:1984:SBC

[BN84] J. M. Boland and R. A. Nicolaides. On the stability of bilinear-constant velocity-pressure finite elements. *Numerische Mathematik*, 44(2): 219–222, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baranger:1990:ANE

[BN90] Jacques Baranger and Khalid Najib. Analyse numérique des écoulements quasi-newtoniens dont la viscosité obéit à la loi puissance ou la loi de carreau. (French) [Numerical analysis of quasi-Newtonian flow obeying the power law or the Carreau law]. *Numerische Mathematik*, 58(1):35–49, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bunch:1978:ROM

[BNS78] James R. Bunch, Christopher P. Nielsen, and Danny C. Sorensen. Rank one modification of the symmetric eigenproblem. *Numerische Mathematik*, 31(1):31–48, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Buttgenbach:1989:SET

[BNvW89] B. Büttgenbach, R. J. Nessel, and E. van Wickeren. Sharp estimates in terms of moduli of smoothness for compound cubature rules. *Numerische Mathematik*, 56(4):359–369, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brown:1972:IGR

[BNZ72a] H. Brown, J. Neubüser, and H. Zassenhaus. On integral groups. I: The reducible case. *Numerische Mathematik*, 19(5): 386–399, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brown:1972:IGI

[BNZ72b] H. Brown, J. Neubüser, and H. Zassenhaus. On integral groups. II: The irreducible case. *Numerische Mathematik*, 20(1): 22–31, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Babuska:1980:AFE

[BO80] I. Babuška and J. Osborn. Analysis of finite element methods

for second order boundary value problems using mesh dependent norms. *Numerische Mathematik*, 34(1):41–62, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Banerjee:1990:EEN

[BO90] Uday Banerjee and John E. Osborn. Estimation of the effect of numerical integration in finite element eigenvalue approximation. *Numerische Mathematik*, 56(8):735–762, February 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bode:1968:MUS

[Bod68] Albert Bode. Matrizielle untere Schranken linearer Abbildungen und M-Matrizen. (German) [Matrix lower bounds of linear transformations and M matrices]. *Numerische Mathematik*, 11(5), June 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Boehm:1964:FWB

[Boe64] B. Boehm. Functions whose best rational Chebyshev approximation are polynomials. *Numerische Mathematik*, 6(1):235–242, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bohl:1967:NAH

[Boh67] Erich Bohl. Nichtlineare Aufgaben in halbgeordneten Räumen. (German) [Nonlinear problems in half-ordered spaces]. *Numerische Mathematik*, 10(3):220–231, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bohl:1969:UFN

[Boh69] Erich Bohl. Über Fehlerabschätzungen bei nichtlinearen Operatorgleichungen. (German) [On error bounds for nonlinear operator equations]. *Numerische Mathematik*, 13(3): 226–237, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bohl:1980:CTN

[Boh80] Erich Bohl. Chord techniques and Newton's method for discrete bifurcation problems. *Numerische Mathematik*, 34(2): 111–124, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bohmer:1981:DNM

[Böh81] Klaus Böhmer. Discrete Newton methods and iterated defect corrections. *Numerische Mathematik*, 37(2):167–192, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bojanov:1993:IPS

[Boj93] Borislav Bojanov. Interpolation by periodic splines with Birkhoff knots. *Numerische Mathematik*, 65(1):63–75, May 1993. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Bollen:1984:NSD

[Bol84] Jo A. M. Bollen. Numerical stability of descent methods for solving linear equations. *Numerische Mathematik*, 43(3): 361–377, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Borgers:1989:NDD

[Bör89] Christoph Börgers. The Neumann–Dirichlet domain decomposition method with inexact solvers on the subdomains. *Numerische Mathematik*, 55(2): 123–136, May 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Borgers:1990:DIM

[Bör90] Christoph Börgers. Domain imbedding methods for the Stokes equations. *Numerische Mathematik*, 57(5):435–451, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Borges:1994:CGL

[Bor94] Carlos F. Borges. On a class of Gauss-like quadrature rules. *Numerische Mathematik*, 67(3): 271–288, April 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067003/40670271.htm; http://science.springer.de/nmee/bibs/4067003/40670271.htm`.

Bosarge:1971:ICS

[Bos71] W. E. Bosarge, Jr. Iterative continuation and the solution of nonlinear two-point boundary value problems. *Numerische Mathematik*, 17(4):268–283, August 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bourquin:1990:ACS

[Bou90] Frédéric Bourquin. Analysis and comparison of several component mode synthesis methods on one-dimensional domains. *Numerische Mathematik*, 58(1):11–33, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Buchanan:1966:UCM

[BP66] M. L. Buchanan and B. N. Parlett. The uniform convergence of matrix powers. *Numerische Mathematik*, 9(1):51–54, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bercovier:1979:EEF

[BP79] M. Bercovier and O. Pironneau. Error estimates for finite element method solution of the Stokes problem in the primitive variables. *Numerische Mathematik*, 33(2):211–224, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bourdeau:1985:TGL

[BP85] Marc Bourdeau and Alain Pitre. Tables of good lattices in four and five dimensions. *Numerische Mathematik*, 47(1):39–43, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bermudez:1992:MAF

[BP92] Alfredo Bermúdez and Dolores G. Pedreira. Mathematical analysis of a finite element method without spurious solutions for computation of dielectric waveguides. *Numerische Mathematik*, 61(1):39–57, February 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bojanov:1998:NID

[BP98] Borislav Bojanov and Guergana Petrova. Numerical integration over a disc. A new Gaussian quadrature formula. *Numerische Mathematik*, 80(1): 39–59, July 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080001/80800039.htm; http://link.springer.de/link/service/journals/00211/papers/8080001/80800039.pdf; http://link.springer.de/link/service/journals/00211/papers/8080001/80800039.ps.gz`.

Babuska:1972:FES

[BR72] Ivo Babuška and Michael B. Rosenzweig. A finite element scheme for domains with corners. *Numerische Mathematik*, 20(1):1–21, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1981:GAN

[BR81] R. E. Bank and D. J. Rose. Global approximate Newton methods. *Numerische Mathematik*, 37(2):279–295, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Blum:1988:ETR

[BR88] H. Blum and R. Rannacher. Extrapolation techniques for reducing the pollution effect of reentrant corners in the finite element method. *Numerische Mathematik*, 52(5): 539–564, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Begumisa:1991:SKE

[BR91] Annuntiato Begumisa and Ian Robinson. Suboptimal Kronrod extension formulae for numerical quadrature. *Numerische Mathematik*, 58(8): 807–818, March 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brakhage:1960:UNB

[Bra60] H. Brakhage. Über die numerische Behandlung von Integralgleichungen nach der Quadraturformelmethode. (German) [On the numerical treatment of integral equations for the quadrature formula method]. *Numerische Mathematik*, 2(1):183–196, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brakhage:1961:FNE

[Bra61] H. Brakhage. Zur Fehlerabschätzung für die numerische Eigenwertbestimmung bei Integralgleichungen. (German) [Toward error bounds for numerical eigenvalue determination in integral equations]. *Numerische Mathematik*, 3:174–179, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Braess:1965:MIG

[Bra65] Dietrich Braess. Monotone Iterationsfolgen bei Gleichungssystemen mit fehlerhaften Koeffizienten und Iterationsbeschleunigung. (German) [Monotone iteration sequences for equation systems with coefficients having errors, and iteration acceleration]. *Numerische Mathematik*, 7(1):32–41, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bramble:1966:SOF

[Bra66] James H. Bramble. A second order finite difference analog of the first biharmonic boundary value problem. *Numerische Mathematik*, 9(3):236–249, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bramble:1969:CDA

[Bra69] J. H. Bramble. On the convergence of difference approximations to weak solutions of Dirichlet's problem. *Numerische Mathematik*, 13(2): 101–111, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Braess:1970:MKI

[Bra70] Dietrich Braess. Eine Möglichkeit zur Konvergenzbeschleunigung bei Iterationsverfahren für bestimmte nichtlineare Probleme. (German) [A possibility for convergence acceleration of iterative methods for certain nonlinear problems]. *Numerische Mathematik*, 14(5): 468–475, April 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=14&issue=5&spage=468`.

Braess:1971:CAS

[Bra71a] Dietrich Braess. Chebyshev approximation by spline functions with free knots. *Numerische*

Mathematik, 17(5):357–366, October 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brauer:1971:RPH

[Bra71b] Alfred Brauer. A remark on the paper of H. H. Schaefer, "Abschätzung der nichttrivialen Eigenwerte stochastischer Matrizen". *Numerische Mathematik*, 17(2):163–165, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brass:1973:FQC

[Bra73] Helmut Braß. Eine Fehlerabschätzung zum Quadraturverfahren von Clenshaw und Curtis. (German) [An error estimation of the quadrature method of Clenshaw and Curtis]. *Numerische Mathematik*, 21(5): 397–403, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Braess:1974:RIN

[Bra74] Dietrich Braess. Rationale Interpolation, Normalität und Monosplines. (German) [Rational interpolation, normality and monosplines]. *Numerische Mathematik*, 22(3): 219–232, June 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Braess:1977:ENP

[Bra77] Dietrich Braess. Über die Einzugsbereiche der Nullstellen von Polynomen beim Newton-Verfahren. (German) [On the regions of attraction when computing the roots of polynomials with the Newton-method]. *Numerische Mathematik*, 29(1): 123–132, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brass:1978:MQG

[Bra78] Helmut Braß. Monotonie bei den Quadratureverfahren von Gauß und Newton–Cotes. (German) [Monotony in the quadrature rules of Gauss and Newton–Cotes]. *Numerische Mathematik*, 30(3):349–354, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Braess:1981:CNM

[Bra81a] Dietrich Braess. The contraction number of a multigrid method for solving the Poisson equation. *Numerische Mathematik*, 37(3):387–404, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brauninger:1981:VMA

[Brä81b] J. Bräuninger. A variable metric algorithm for unconstrained minimization without evaluation of derivatives. *Numerische Mathematik*, 36(4): 359–373, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brannigan:1982:SCS

[Bra82] M. Brannigan. The strict Chebyshev solution of overdetermined systems of linear equations with rank deficient matrix. *Numerische Mathematik*, 40(3): 307–318, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brass:1985:FPQ

[Bra85] Helmut Braß. Eine Fehlerabschätzung für positive Quadraturformeln. (German) [An error estimate for positive quadrature formulas]. *Numerische Mathematik*, 47(3):395–399, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brand:1992:IFP

[Bra92] Clemens W. Brand. An incomplete-factorization preconditioning using repeated red-black ordering. *Numerische Mathematik*, 61(4):433–454, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brandts:1994:SPE

[Bra94] Jan H. Brandts. Superconvergence and a posteriori error estimation for triangular mixed finite elements. *Numerische Mathematik*, 68(3):311–324, September 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068003/40680311.htm; http://science.springer.de/nmee/bibs/4068003/40680311.htm`.

Brent:1970:EAA

[Bre70] R. P. Brent. Error analysis of algorithms for matrix multiplication and triangular decomposition using Winograd's identity. *Numerische Mathematik*, 16(2): 145–156, November 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1971:EAF

[Bre71] C. Brezinski. Études sur les ϵ- et ρ-algorithmes. (French) [Studies on ϵ and ρ-algorithms]. *Numerische Mathematik*, 17(2): 153–162, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1972:CAC

[Bre72] Claude Brezinski. Conditions d'application et de convergence de procédés d'extrapolation. (French) [Application and convergence conditions for some extrapolation processes]. *Numerische Mathematik*, 20(1):64–79, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1975:FCA

[Bre75a] C. Brezinski. Forme confluente de l'ε-algorithme topologique. (French) [Confluent form of the

topological ε-algorithm]. *Numerische Mathematik*, 23(4): 363–370, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezzi:1975:MEF

[Bre75b] F. Brezzi. Sur la méthode des éléments finis hybrides pour le problème biharmonique. (French) [On hybrid finite element methods for the biharmonic problem]. *Numerische Mathematik*, 24(2): 103–131, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1978:CAS

[Bre78] C. Brezinski. Convergence acceleration of some sequences by the ϵ-algorithm. *Numerische Mathematik*, 29(2):173–177, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1980:GEA

[Bre80] C. Brezinski. A general extrapolation algorithm. *Numerische Mathematik*, 35(2): 175–187, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1985:CST

[Bre85] Claude Brezinski. Composite sequence transformations. *Numerische Mathematik*, 46(3): 311–321, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1989:CPS

[Bre89] Claude Brezinski. Contraction properties of sequence transformations. *Numerische Mathematik*, 54(5):565–574, February 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brenner:1996:TLA

[Bre96] Susanne C. Brenner. A two-level additive Schwarz preconditioner for nonconforming plate elements. *Numerische Mathematik*, 72(4):419–447, February 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6072004/60720419.htm; http://science.springer.de/nmee/bibs/6072004/60720419.htm`.

Brenner:1999:CNS

[Bre99] Susanne C. Brenner. The condition number of the Schur complement in domain decomposition. *Numerische Mathematik*, 83(2):187–203, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083002/90830187.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083002/90830187.pdf`.

Briones:1964:AAC

[Bri64] F. Briones. On the alternants

appearing in Chebyshev's best approximation problem. *Numerische Mathematik*, 6(1):211–223, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brilla:1983:EAL

[Bri83] Jozef Brilla. Error analysis for Laplace transform—finite element solution of hyperbolic equations. *Numerische Mathematik*, 41(1):55–62, April 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Broyden:1964:SGT

[Bro64] C. G. Broyden. Some generalisations of the theory of successive over-relaxation. *Numerische Mathematik*, 6(1):269–284, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brosowski:1965:ERT

[Bro65a] Bruno Brosowski. Über die Eindeutigkeit der rationalen Tschebyscheff-Approximationen. (German) [On the uniqueness of rational Chebyshev approximations]. *Numerische Mathematik*, 7(2):176–186, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brosowski:1965:ELP

[Bro65b] Bruno Brosowski. Über Extremalsignaturen linearer Polynome in n Veränderlichen. (German) [On the extremal signature of linear polynomials in n variables]. *Numerische Mathematik*, 7(5):396–405, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Broyden:1968:SAC

[Bro68] C. G. Broyden. Some aspects of consistent ordering. *Numerische Mathematik*, 12(1):47–56, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brombeer:1978:OQF

[Bro78] Rüdiger Brombeer. Über optimale Quadraturformeln mit freien Knoten zu Hilberträumen periodischer Funktionen. (German) [On optimal quadrature formulae with free nodes for Hilbert-spaces of periodic functions]. *Numerische Mathematik*, 30(2):149–164, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brokate:1985:NSH

[Bro85] M. Brokate. Numerical solution of a hyperbolic free boundary problem with a method of characteristics. *Numerische Mathematik*, 46(1):85–99, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezzi:1980:FDA

[BRR80] F. Brezzi, J. Rappaz, and P. A. Raviart. Finite-dimensional approximation of nonlinear prob-

lems. I. branches of nonsingular solutions. *Numerische Mathematik*, 36(1):1–25, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezzi:1981:FDAa

[BRR81a] F. Brezzi, J. Rappaz, and P. A. Raviart. Finite-dimensional approximation of nonlinear problems. II. limit points. *Numerische Mathematik*, 37(1): 1–28, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezzi:1981:FDAb

[BRR81b] F. Brezzi, J. Rappaz, and P. A. Raviart. Finite dimensional approximation of nonlinear problems. III. simple bifurcation points. *Numerische Mathematik*, 38(1):1–30, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Burgmeier:1971:IET

[BRS71] J. W. Burgmeier, R. D. Russell, and L. F. Shampine. Integral equations with transform kernels and the eigenproblem $KCx = \lambda x$. *Numerische Mathematik*, 17(4):253–267, August 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1992:BFL

[BRS92] C. Brezinski, M. Redivo Zaglia, and H. Sadok. A breakdown-free Lanczos type algorithm for solving linear systems. *Numerische Mathematik*, 63(1):29–38, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brunner:1978:DVI

[Bru78] Hermann Brunner. Discretization of Volterra integral equations of the first kind. II. *Numerische Mathematik*, 30(2): 117–136, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brezinski:1998:ETI

[BRZRS98] C. Brezinski, M. Redivo-Zaglia, G. Rodriguez, and S. Seatzu. Extrapolation techniques for ill-conditioned linear systems. *Numerische Mathematik*, 81(1):1–29, November 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081001/80810001.htm`; `http://link.springer.de/link/service/journals/00211/papers/8081001/80810001.pdf`.

Bauer:1959:NFT

[BS59] F. L. Bauer and H. J. Stetter. Zur numerischen Fourier–Transformation. (German) [The numerical Fourier transform]. *Numerische Mathematik*, 1(1): 208–220, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.`

springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=208.

Borsch-Supan:1960:BFB

[BS60] W. Börsch-Supan. Bemerkungen zur Fehlerabschätzung beim Ritz–Galerkin-Verfahren nach Krylow. (German) [Remark on the error bounds of the Ritz–Galerkin method of Krylov]. *Numerische Mathematik*, 2(1):79–83, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Borsch-Supan:1963:PEB

[BS63] W. Börsch-Supan. A posteriori error bounds for the zeros of polynomials. *Numerische Mathematik*, 5(1):380–398, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1966:AUL

[BS66a] Roland Bulirsch and Josef Stoer. Asymptotic upper and lower bounds for results of extrapolation methods. *Numerische Mathematik*, 8(2):93–104, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1966:NTO

[BS66b] Roland Bulirsch and Josef Stoer. Numerical treatment of ordinary differential equations by extrapolation methods. *Numerische Mathematik*, 8(1):1–13, March 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1967:NQE

[BS67] Roland Bulirsch and Josef Stoer. Numerical quadrature by extrapolation. *Numerische Mathematik*, 9(4):271–278, February 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brosowski:1968:RTA

[BS68] Bruno Brosowski and Josef Stoer. Zur rationalen Tschebyscheff-Approximation differenzierbarer und analytischer Funktionen. (German) [On a rational Chebyshev approximation of differentiable and analytic functions]. *Numerische Mathematik*, 12(1):57–65, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Borsch-Supan:1970:RPN

[BS70] Wolfgang Börsch-Supan. Residuenabschätzung für Polynom-Nullstellen mittels Lagrange-Interpolation. (German) [Residue bounds for polynomial zeros through Lagrange interpolation]. *Numerische Mathematik*, 14(3):287–296, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baptist:1977:RBQ

[BS77] P. Baptist and J. Stoer. On the relation between quadratic termination and convergence

properties of minimisation algorithms. II. applications. *Numerische Mathematik*, 28(4): 367–391, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrow:1979:EAS

[BS79] D. L. Barrow and P. W. Smith. Efficient L_2 approximation by splines. *Numerische Mathematik*, 33(1):101–114, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brass:1981:EEI

[BS81] H. Brass and G. Schmeisser. Error estimates for interpolatory quadrature formulae. *Numerische Mathematik*, 37(3): 371–386, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bruch:1985:AIE

[BS85] John C. Bruch, Jr. and James M. Sloss. Alternating iteration and elliptic variational inequalities. *Numerische Mathematik*, 47(3):459–481, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Burmeister:1988:OCS

[BS88] W. Burmeister and Jochen W. Schmidt. On the R-order of coupled sequences arising in single-step type methods. *Numerische Mathematik*, 53(6): 653–661, September 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Babuska:1989:TND

[BS89] I. Babuška and Manil Suri. The treatment of nonhomogeneous Dirichlet boundary conditions by the p-version of the finite element method. *Numerische Mathematik*, 55(1):97–121, April 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1991:FEAa

[BS91] John W. Barrett and Robert M. Shanahan. Finite element approximation of a model reaction-diffusion problem with a non-Lipschitz nonlinearity. *Numerische Mathematik*, 59(3): 217–242, June 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Babuska:1992:LEF

[BS92a] Ivo Babuška and Manil Suri. Locking effects in the finite element approximation of elasticity problems. *Numerische Mathematik*, 62(4):439–463, September 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Baranger:1992:FEA

[BS92b] J. Baranger and D. Sandri. Finite element approximation of viscoelastic fluid flow: Existence of approximate solutions

and error bounds. I. discontinuous constraints. *Numerische Mathematik*, 63(1):13–27, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Berthold:1995:CCM

[BS95] D. Berthold and B. Silbermann. Corrected collocation methods for periodic pseudodifferential equations. *Numerische Mathematik*, 70(4): 397–425, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070004/50700397.htm; http://science.springer.de/nmee/bibs/5070004/50700397.htm`.

Bodenmann:1996:CDM

[BS96] Rudolf Bodenmann and H. Joachim Schroll. Compact difference methods applied to initial-boundary value problems for mixed systems. *Numerische Mathematik*, 73(3):291–309, May 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073003/60730291.htm; http://science.springer.de/nmee/bibs/6073003/60730291.htm`.

Benzi:1997:EUS

[BS97a] Michele Benzi and Daniel B. Szyld. Existence and uniqueness of splittings for stationary iterative methods with applications to alternating methods. *Numerische Mathematik*, 76(3): 309–321, May 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076003/70760309.htm; http://science.springer.de/nmee/bibs/7076003/70760309.htm`.

Bereux:1997:RTR

[BS97b] François Bereux and Lionel Sainsaulieu. A Roe-type Riemann solver for hyperbolic systems with relaxation based on time-dependent wave decomposition. *Numerische Mathematik*, 77(2): 143–185, August 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077002/70770143.htm; http://science.springer.de/nmee/bibs/7077002/70770143.htm`.

Borwein:1997:SAD

[BS97c] J. M. Borwein and W. Sun. The stability analysis of dynamic SPECT systems. *Numerische Mathematik*, 77(3):283–298, September 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077003/70770283.htm; http://science.springer.`

de/nmee/bibs/7077003/70770283.htm.

Bornemann:1998:MIC

[BS98a] Folkmar A. Bornemann and Christof Schütte. A mathematical investigation of the Car–Parrinello method. *Numerische Mathematik*, 78(3):359–376, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7078003/70780359.htm; http://science.springer.de/nmee/bibs/7078003/70780359.htm.

Buss:1998:PMR

[BS98b] J. F. Buss and R. B. Simpson. Planar mesh refinement cannot be both local and regular. *Numerische Mathematik*, 79 (1):1–10, March 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079001/80790001.htm; http://science.springer.de/nmee/bibs/8079001/80790001.htm.

Barrett:1999:FEA

[BS99a] John W. Barrett and Mathias Schneider. Finite element approximation of a semilinear elliptic problem with a singular nonlinearity. *Numerische Mathematik*, 82(1):21–56, March 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082001/90820021.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082001/90820021.pdf.

Bornemann:1999:AAC

[BS99b] Folkmar A. Bornemann and Christof Schütte. Adaptive accuracy control for Car–Parrinello simulations. *Numerische Mathematik*, 83(2): 179–186, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083002/90830179.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083002/90830179.pdf.

Bruntjen:1999:ITL

[BS99c] K. Brüntjen and H. Späth. Incomplete total least squares. *Numerische Mathematik*, 81 (4):521–538, February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810521.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810521.pdf.

Birkhoff:1968:PHI

[BSV68] G. Birkhoff, M. H. Schultz, and R. S. Varga. Piecewise Hermite interpolation in one and

two variables with applications to partial differential equations. *Numerische Mathematik*, 11(3): 232–256, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bauer:1961:AMN

[BSW61] F. L. Bauer, J. Stoer, and C. Witzgall. Absolute and monotonic norms. *Numerische Mathematik*, 3:257–264, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bruder:1988:PAR

[BSW88] Jürgen Bruder, Karl Strehmel, and Rüdiger Weiner. Partitioned adaptive Runge–Kutta methods for the solution of nonstiff and stiff systems. *Numerische Mathematik*, 52(6): 621–638, June 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Buck:1962:SA

[Buc62] R. C. Buck. Stochastic ascent. *Numerische Mathematik*, 4:177–186, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Buchmann:1964:CUJ

[Buc64] M. Buchmann. A condition for uniform Jordanization of a family of triangular matrices. *Numerische Mathematik*, 6(1):335–345, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1964:BRI

[Bul64] R. Bulirsch. Bemerkungen zur Romberg-Integration. (German) [Remark on Romberg integration]. *Numerische Mathematik*, 6(1):6–16, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1965:NCEa

[Bul65a] Roland Bulirsch. Numerical calculation of elliptic integrals and elliptic functions. *Numerische Mathematik*, 7(1):78–90, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1965:NCEb

[Bul65b] Roland Bulirsch. Numerical calculation of elliptic integrals and elliptic functions. II. *Numerische Mathematik*, 7(4):353–354, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1967:NCS

[Bul67] Roland Bulirsch. Numerical calculation of the sine, cosine and Fresnel integrals. *Numerische Mathematik*, 9(5):380–385, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1969:EBT

[Bul69a] R. Bulirsch. An extension of the Bartky-transformation to incomplete elliptic integrals of the

third kind. *Numerische Mathematik*, 13(3):266–284, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bulirsch:1969:NCE

[Bul69b] R. Bulirsch. Numerical calculation of elliptic integrals and elliptic functions. III. *Numerische Mathematik*, 13(4):305–315, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Businger:1968:MWC

[Bus68] P. A. Businger. Matrices which can be optimally scaled. *Numerische Mathematik*, 12(4): 346–348, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Businger:1971:MNS

[Bus71] P. A. Businger. Monitoring the numerical stability of Gaussian elimination. *Numerische Mathematik*, 16(4):360–361, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bus:1977:CNM

[Bus77] J. C. P. Bus. Convergence of Newton-like methods for solving systems of nonlinear equations. *Numerische Mathematik*, 27(3): 271–281, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bernal:1968:GTC

[BV68] M. J. M. Bernal and J. H. Verner. On generalizations of the theory of consistent orderings for successive over-relaxation methods. *Numerische Mathematik*, 12(3):215–222, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Babuska:1984:FAF

[BV84] I. Babuška and M. Vogelius. Feedback and adaptive finite element solution of one-dimensional boundary value problems. *Numerische Mathematik*, 44(1):75–102, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Balla:1987:RHP

[BV87] Katalin Balla and Mária Vicsek. On the reduction of Holt's problem to a finite interval. *Numerische Mathematik*, 51(3): 291–302, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [BV88].

Balla:1988:ERH

[BV88] Katalin Balla and Mária Vicsek. Erratum: "On the reduction of Holt's problem to a finite interval". *Numerische Mathematik*, 52(4):479, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [BV87].

Beyer:1972:ECC

[BW72a] W. A. Beyer and M. S. Waterman. Ergodic computations with continued fractions and Jacobi's algorithm. *Numerische Mathematik*, 19(3): 195–205, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See errata [BW72b].

Beyer:1972:EEC

[BW72b] W. A. Beyer and M. S. Waterman. Errata: "Ergodic Computations with Continued Fraction and Jacobi's Algorithm". *Numerische Mathematik*, 20 (5):430, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=20&issue=5&spage=430`. See [BW72a].

Baughman:1993:CVM

[BW93] Lisa A. Baughman and Noel J. Walkington. Co-volume methods for degenerate parabolic problems. *Numerische Mathematik*, 64(1):45–67, January 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barrett:1995:FEA

[BW95] John W. Barrett and Patrick A. Wood. The finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities. *Numerische Mathematik*, 71(2): 135–157, August 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071002/50710135.htm; http://science.springer.de/nmee/bibs/5071002/50710135.htm`.

Bank:1999:MID

[BW99] Randolph E. Bank and Christian Wagner. Multilevel ILU decomposition. *Numerische Mathematik*, 82(4):543–576, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820543.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082004/90820543.pdf`.

Brent:1973:OIP

[BWW73] Richard Brent, Shmuel Winograd, and Philip Wolfe. Optimal iterative processes for root-finding. *Numerische Mathematik*, 20(5):327–341, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1990:CIM

[BWY90] Randolph E. Bank, Bruno D. Welfert, and Harry Yserentant. A class of iterative methods for solving saddle point problems. *Numerische Mathematik*, 56(7): 645–666, January 1990. CO-

DEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bank:1996:ACU

[BX96] Randolph E. Bank and Jinchao Xu. An algorithm for coarsening unstructured meshes. *Numerische Mathematik*, 73(1): 1–36, March 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073001/60730001.htm; http://science.springer.de/nmee/bibs/6073001/60730001.htm`.

Barrodale:1966:ABL

[BY66] Ian Barrodale and Andrew Young. Algorithms for best L_1 and L_∞ linear approximations on a discrete set. *Numerische Mathematik*, 8(3):295–306, May 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bornemann:1993:BNE

[BY93] Folkmar Bornemann and Harry Yserentant. A basic norm equivalence for the theory of multilevel methods. *Numerische Mathematik*, 64(4): 455–476, April 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bar-Yoseph:1986:AFE

[BYI86] Pinchas Bar-Yoseph and Moshe Israeli. An asymptotic finite element method for improvement of solutions of boundary layer problems. *Numerische Mathematik*, 49(4):425–438, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Brenner:1999:BDD

[ByS99] Susanne C. Brenner and Li yeng Sung. Balancing domain decomposition for nonconforming plate elements. *Numerische Mathematik*, 83(1):25–52, July 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083001/90830025.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083001/90830025.pdf`.

Braess:1982:NTS

[BZ82] D. Braess and E. Zehnder. On the numerical treatment of a small divisor problem. *Numerische Mathematik*, 39(2): 269–292, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Bellen:1985:NSD

[BZ85] Alfredo Bellen and Marino Zennaro. Numerical solution of delay differential equations by uniform corrections to an implicit Runge–Kutta method. *Numerische Mathematik*, 47(2): 301–316, September 1985. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Brezinski:1994:HPS

[BZ94] C. Brezinski and M. Redivo Zaglia. Hybrid procedures for solving linear systems. *Numerische Mathematik*, 67(1):1–19, February 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067001/40670001.htm; http://science.springer.de/nmee/bibs/4067001/40670001.htm`.

Brezinski:1999:NLA

[BZS99] C. Brezinski, M. Redivo Zaglia, and H. Sadok. New look-ahead Lanczos-type algorithms for linear systems. *Numerische Mathematik*, 83(1):53–85, July 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083001/90830053.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083001/90830053.pdf`.

Cai:1991:ASA

[Cai91a] Xiao-Chuan Cai. Additive Schwarz algorithms for parabolic convection-diffusion equations. *Numerische Mathematik*, 60(1):41–61, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cai:1991:FVE

[Cai91b] Zhiqiang Cai. On the finite volume element method. *Numerische Mathematik*, 58(7):713–735, February 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Campbell:1970:SAD

[Cam70] N. G. Campbell. Stability analysis of a difference scheme for the Navier–Stokes equations. *Numerische Mathematik*, 14(5):435–447, April 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=14&issue=5&spage=435`.

Campbell:1993:LSC

[Cam93] Stephen L. Campbell. Least squares completions for nonlinear differential algebraic equations. *Numerische Mathematik*, 65(1):77–94, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cannon:1971:CIS

[Can71] John J. Cannon. Computing the ideal structure of finite semigroups. *Numerische Mathematik*, 18(3):254–266, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carasso:1971:LRN

[Car71] Alfred Carasso. Long-range numerical solution of mildly non-linear parabolic equations. *Numerische Mathematik*, 16(4): 304–321, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carasso:1972:EAR

[Car72a] Claude Carasso. Étude de l'algorithme de Rémès en l'absence de condition de Haar. (French) [Study of the Remes-algorithm without the Haar condition]. *Numerische Mathematik*, 20(2):165–178, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carroll:1972:SAC

[Car72b] M. P. Carroll. Simultaneous L_1 approximation of a compact set of real-valued functions. *Numerische Mathematik*, 19(2): 110–115, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carlson:1979:CEI

[Car79] B. C. Carlson. Computing elliptic integrals by duplication. *Numerische Mathematik*, 33(1): 1–16, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carstensen:1991:IRP

[Car91] C. Carstensen. Inclusion of the roots of a polynomial based on Gerschgorin's theorem. *Numerische Mathematik*, 59(4): 349–360, July 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carpenter:1992:AZG

[Car92] Amos J. Carpenter. Asymptotics for the zeros of the generalized Bessel polynomials. *Numerische Mathematik*, 62(4): 465–482, September 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carstensen:1999:NAP

[Car99] Carsten Carstensen. Numerical analysis of the primal problem of elastoplasticity with hardening. *Numerische Mathematik*, 82(4):577–597, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820577.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082004/90820577.pdf`.

Cash:1977:NIS

[Cas77] J. R. Cash. A note on the iterative solution of recurrence relations. *Numerische Mathematik*, 27(2):165–170, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cash:1978:HOM

[Cas78] J. R. Cash. High order methods for the numerical integration of ordinary differential equations. *Numerische Mathematik*, 30(4): 385–409, December 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cash:1980:NNS

[Cas80a] J. R. Cash. A note on the numerical solution of linear recurrence relations. *Numerische Mathematik*, 34(4): 371–386, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cash:1980:ISS

[Cas80b] J. R. Cash. On the integration of stiff systems of O.D.E.s using extended backward differentiation formulae. *Numerische Mathematik*, 34(3):235–246, September 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cash:1981:HOS

[Cas81a] J. R. Cash. High order P-stable formulae for the numerical integration of periodic initial value problems. *Numerische Mathematik*, 37(3):355–370, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cash:1981:DHO

[Cas81b] J. R. Cash. On the design of high order exponentially fitted formulae for the numerical integration of stiff systems. *Numerische Mathematik*, 36(3): 253–266, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cash:1982:IAS

[Cas82] J. R. Cash. On improving the absolute stability of local extrapolation. *Numerische Mathematik*, 40(3):329–337, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cash:1983:SLM

[Cas83] J. R. Cash. Split linear multistep methods for the numerical integration of stiff differential systems. *Numerische Mathematik*, 42(3):299–310, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Casas:1985:EFE

[Cas85] Eduardo Casas. L^2 estimates for the finite element method for the Dirichlet problem with singular data. *Numerische Mathematik*, 47(4):627–632, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Casas:1996:FFS

[Cas96] F. Casas. Fer's factorization as a symplectic integrator. *Numerische Mathematik*, 74(3): 283–303, September 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (elec-

tronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074003/60740283.htm; http://science.springer.de/nmee/bibs/6074003/60740283.htm.

Clenshaw:1960:MNI

[CC60] C. W. Clenshaw and A. R. Curtis. A method for numerical integration on an automatic computer. *Numerische Mathematik*, 2(1):197–205, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciavaldini:1985:FEM

[CC85] J. F. Ciavaldini and M. Crouzeix. A finite element method scheme for one-dimensional elliptic equations with high super convergence at the nodes. *Numerische Mathematik*, 46(3): 417–427, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Capatina:1991:IAQ

[CC91] Anca Radoslovescu Căpăţînă and M. Cocu. Internal approximation of quasi-variational inequalities. *Numerische Mathematik*, 59(4):385–398, July 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chen:1995:AFE

[CC95] Zhangxin Chen and Bernardo Cockburn. Analysis of a finite element method for the drift-diffusion semiconductor device equations: The multidimensional case. *Numerische Mathematik*, 71(1): 1–28, July 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5071001/50710001.htm; http://science.springer.de/nmee/bibs/5071001/50710001.htm.

Caselles:1993:GMA

[CCCD93] Vicent Caselles, Francine Catté, Tomeu Coll, and Françoise Dibos. A geometric model for active contours in image processing. *Numerische Mathematik*, 66(1):1–31, October 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chipot:1995:NAO

[CCK95] M. Chipot, C. Collins, and D. Kinderlehrer. Numerical analysis of oscillations in multiple well problems. *Numerische Mathematik*, 70(3): 259–282, May 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5070003/50700259.htm; http://science.springer.de/nmee/bibs/5070003/50700259.htm.

Cenacchi:1972:QRS

[CD72] G. Cenacchi and A. De Matteis. Quasi-random sequences by power residues. *Numerische Mathematik*, 20(1):54–

63, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chandra:1973:APS

[CD73] Jagdish Chandra and Paul William Davis. On the approximation of periodic solutions of equations with bounded nonlinearities. *Numerische Mathematik*, 21(2):96–108, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carlson:1979:ECI

[CD79] David Carlson and Biswa Nath Datta. On the effective computation of the inertia of a non-Hermitian matrix. *Numerische Mathematik*, 33(3): 315–322, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cortey-Dumont:1985:FEA

[CD85] Ph. Cortey-Dumont. On finite element approximation in the L^∞-norm of variational inequalities. *Numerische Mathematik*, 47(1):45–57, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chui:1990:CMQ

[CD90] Charles K. Chui and Harvey Diamond. A characterization of multivariate quasi-interpolation formulas and its applications. *Numerische Mathematik*, 57(2): 105–121, April 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chui:1991:GFL

[CD91] Charles K. Chui and Harvey Diamond. A general framework for local interpolation. *Numerische Mathematik*, 58(6): 569–581, January 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carstensen:1998:PEE

[CD98] Carsten Carstensen and Georg Dolzmann. A posteriori error estimates for mixed FEM in elasticity. *Numerische Mathematik*, 81(2):187–209, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081002/80810187.htm`; `http://link.springer.de/link/service/journals/00211/papers/8081002/80810187.pdf`.

Cuyt:1996:KTT

[CDL96] Annie Cuyt, Kathy Driver, and Doron Lubinsky. Kronecker type theorems, normality and continuity of the multivariate Padé operator. *Numerische Mathematik*, 73(3): 311–327, May 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073003/60730311.`

htm; http://science.springer.de/nmee/bibs/6073003/60730311.htm.

Cenacchi:1970:PNC

[CdM70] G. Cenacchi and A. de Matteis. Pseudo-random numbers for comparative Monte Carlo calculations. *Numerische Mathematik*, 16(1):11–15, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Conca:1998:RCE

[CDR98] Carlos Conca, Mario Durán, and Jacques Rappaz. Rate of convergence estimates for the spectral approximation of a generalized eigenvalue problem. *Numerische Mathematik*, 79(3): 349–369, May 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079003/80790349.htm; http://science.springer.de/nmee/bibs/8079003/80790349.htm.

Calvo:1999:NAT

[CDV99] N. Calvo, J. Durany, and C. Vázquez. Numerical approach of temperature distribution in a free boundary model for polythermal ice sheets. *Numerische Mathematik*, 83(4):557–580, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830557.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830557.pdf.

Copetti:1992:NAC

[CE92] M. I. M. Copetti and C. M. Elliott. Numerical analysis of the Cahn–Hilliard equation with a logarithmic free energy. *Numerische Mathematik*, 63(1):39–65, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Censor:1983:SUK

[CEG83] Yair Censor, Paul P. B. Eggermont, and Dan Gordon. Strong underrelaxation in kaczmarz's method for inconsistent systems. *Numerische Mathematik*, 41(1): 83–92, April 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chen:1998:SMF

[CEL98] Hongsen Chen, Richard Ewing, and Raytcho Lazarov. Superconvergence of mixed finite element methods for parabolic problems with nonsmooth initial data. *Numerische Mathematik*, 78(4):495–521, February 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7078004/70780495.htm; http://science.springer.de/nmee/bibs/7078004/70780495.htm.

Cody:1968:RCA

[CFH68] W. J. Cody, W. Fraser, and J. F. Hart. Rational Chebyshev approximation using linear equations. *Numerische Mathematik*, 12(4):242–251, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carstensen:1997:ACF

[CFS97] C. Carstensen, S. A. Funken, and E. P. Stephan. On the adaptive coupling of FEM and BEM in 2-d-elasticity. *Numerische Mathematik*, 77(2): 187–221, August 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077002/70770187.htm; http://science.springer.de/nmee/bibs/7077002/70770187.htm`.

Cheney:1959:NMC

[CG59] E. W. Cheney and A. A. Goldstein. Newton's method for convex programming and Tchebycheff approximation. *Numerische Mathematik*, 1(1):253–268, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=253`.

Cooper:1967:SSM

[CG67] G. J. Cooper and E. Gal. Single step methods for linear differential equations. *Numerische Mathematik*, 10(4): 307–315, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Calvo:1988:ASM

[CG88a] M. Calvo and T. Grande. On the asymptotic stability of θ-methods for delay differential equations. *Numerische Mathematik*, 54(3):257–269, December 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chandler:1988:CNM

[CG88b] G. A. Chandler and I. G. Graham. The convergence of Nyström methods for Wiener–Hopf equations. *Numerische Mathematik*, 52(3):345–364, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Campbell:1995:IGN

[CG95] Stephen L. Campbell and C. William Gear. The index of general nonlinear DAEs. *Numerische Mathematik*, 72(2): 173–196, December 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072002/50720173.htm; http://science.springer.de/nmee/bibs/5072002/50720173.htm`.

Chui:1995:FIW

[CGC95] C. K. Chui, J. C. Goswami, and A. K. Chan. Fast integral wavelet transform on a dense set of the time-scale domain. *Numerische Mathematik*, 70(3): 283–302, May 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070003/50700283.htm; http://science.springer.de/nmee/bibs/5070003/50700283.htm`.

Calvo:1990:ZSV

[CGG90] M. Calvo, T. Grande, and Rolf Dieter Grigorieff. On the zero stability of the variable order variable stepsize BDF-Formulas. *Numerische Mathematik*, 57(1):39–50, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cavendish:1976:RAB

[CGH76] James C. Cavendish, William J. Gordon, and Charles A. Hall. Ritz–Galerkin approximations in blending function spaces. *Numerische Mathematik*, 26(2): 155–178, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Champier:1993:CUF

[CGH93] S. Champier, T. Gallouët, and R. Herbin. Convergence of an upstream finite volume scheme for a nonlinear hyperbolic equation on a triangular mesh. *Numerische Mathematik*, 66(2): 139–157, November 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cai:1992:CRE

[CGK92] Xiao-Chuan Cai, William D. Gropp, and David E. Keyes. Convergence rate estimate for a domain decomposition method. *Numerische Mathematik*, 61(2): 153–169, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Calvo:1998:CRM

[CGPM98] M. Calvo, S. Gonzalez-Pinto, and J. I. Montijano. On the convergence of Runge–Kutta methods for stiff non linear differential equations. *Numerische Mathematik*, 81(1):31–51, November 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081001/80810031.htm; http://link.springer.de/link/service/journals/00211/papers/8081001/80810031.pdf`.

Cordova:1990:VMC

[CGR90] Antonio Córdova, Walter Gautschi, and Stephan Ruscheweyh. Vandermonde matrices on the circle: spectral properties and conditioning. *Numerische Mathematik*, 57(6/7):577–591, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245

(electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Calvetti:1994:ACI

[CGR94] D. Calvetti, G. H. Golub, and L. Reichel. An adaptive Chebyshev iterative method for nonsymmetric linear systems based on modified moments. *Numerische Mathematik*, 67(1):21–40, February 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067001/40670021.htm; http://science.springer.de/nmee/bibs/4067001/40670021.htm`.

Conn:1994:NUA

[CGT94] A. R. Conn, Nick Gould, and Ph. L. Toint. A note on using alternative second-order models for the subproblems arising in barrier function methods for minimization. *Numerische Mathematik*, 68(1):17–33, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068001/40680017.htm; http://science.springer.de/nmee/bibs/4068001/40680017.htm`.

Causey:1960:CAE

[CH60] Robert L. Causey and Peter Henrici. Convergence of approximate eigenvectors in Jacobi methods. *Numerische Mathematik*, 2(1):67–78, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carlson:1971:RAT

[CH71] R. E. Carlson and C. A. Hall. Ritz approximations to two-dimensional boundary value problems. *Numerische Mathematik*, 18(2):171–181, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cools:1986:OAK

[CH86] Ronald Cools and Ann Haegemans. Optimal addition of knots to cubature formulae for planar regions. *Numerische Mathematik*, 49(2/3):269–274, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cools:1989:CMD

[CH89] Ronald Cools and Ann Haegemans. On the construction of multi-dimensional embedded cubature formulae. *Numerische Mathematik*, 55(6):735–745, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chakravarti:1961:TEI

[Cha61] P. C. Chakravarti. Truncation error in interpolation and numerical differentiation. *Numerische Mathematik*, 3(1):279–284, December 1961. CO-

DEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=279`.

Chawla:1971:EEN

[Cha71] M. M. Chawla. Estimating errors of numerical approximation for analytic functions. *Numerische Mathematik*, 16(4): 370–374, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chan:1973:SS

[Cha73a] Paula P. Chan. Singular splines. *Numerische Mathematik*, 20(5): 342–349, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chatelin:1973:ADS

[Cha73b] F. Chatelin. Approximation du spectre d'un opérateur linéare: application aux opérateurs differentiels elliptiques non autoadjoints. (French) [Approximation of the spectrum of a linear operator: application to nonselfadjoint differential elliptic operators]. *Numerische Mathematik*, 20(3):193–204, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chan:1974:MOM

[Cha74] Paula P. Chan. A monotone operator method for the solution of Fredholm integral equations. *Numerische Mathematik*, 22(5): 403–408, October 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chatelin:1979:BEP

[Cha79] Françoise Chatelin. Sur les bornes d'erreur a posteriori pour les éléments propres d'opérateurs linéaires. (French) [On the a posteriori error bounds for the proper elements of linear operators]. *Numerische Mathematik*, 32(3): 233–246, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chaffy:1984:CHA

[Cha84] Claudine Chaffy. Une construction "homogène" d'approximants de Padé à deux variables complexes. (French) [A "homogeneous" construction of Padé approximants in two complex variables]. *Numerische Mathematik*, 45(1):149–164, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chan:1987:IMO

[Cha87] R. H. Chan. Iterative methods for overflow queueing models. I. *Numerische Mathematik*, 51(2):143–180, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chan:1988:IMO

[Cha88] R. H. Chan. Iterative methods for overflow queuing models. II. *Numerische Mathematik*, 54 (1):57–78, October 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chandler:1992:MCC

[Cha92] G. A. Chandler. Midpoint collocation for Cauchy singular integral equations. *Numerische Mathematik*, 62(4): 483–509, September 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chapelle:1997:LFA

[Cha97] Dominique Chapelle. A locking-free approximation of curved rods by straight beam elements. *Numerische Mathematik*, 77(3): 299–322, September 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077003/70770299.htm; http://science.springer.de/nmee/bibs/7077003/70770299.htm`.

ChaconRebollo:1998:TTS

[Cha98] Tomás Chacón Rebollo. A term by term stabilization algorithm for finite element solution of incompressible flow problems. *Numerische Mathematik*, 79(2): 283–319, April 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079002/80790283.htm; http://science.springer.de/nmee/bibs/8079002/80790283.htm`.

Chatzipantelidis:1999:FVM

[Cha99] Panagiotis Chatzipantelidis. A finite volume method based on the Crouzeix–Raviart element for elliptic PDE's in two dimensions. *Numerische Mathematik*, 82(3):409–432, May 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082003/90820409.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082003/90820409.pdf`.

Chenin:1979:RIE

[Che79] Patrick Chenin. Une représentation intégrale de l'erreur d'interpolation. (French) [An integral representation of interpolation error]. *Numerische Mathematik*, 32(4): 461–479, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chen:1997:MFE

[Che97] Zhiming Chen. Mixed finite element methods for a dynamical Ginzburg–Landau model in superconductivity. *Numerische Mathematik*, 76(3): 323–353, May 1997. CODEN NUMMA7. ISSN 0029-599X

(print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7076003/70760323.htm; http://science.springer.de/nmee/bibs/7076003/70760323.htm.

Chipot:1991:NAO

[Chi91] M. Chipot. Numerical analysis of oscillations in nonconvex problems. *Numerische Mathematik*, 59(8):747–767, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chipot:1999:AMP

[Chi99] Michel Chipot. The appearance of microstructures in problems with incompatible wells and their numerical approach. *Numerische Mathematik*, 83 (3):325–352, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830325.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830325.pdf.

Canuto:1985:SME

[CHL85] C. Canuto, S. I. Hariharan, and L. Lustman. Spectral methods for exterior elliptic problems. *Numerische Mathematik*, 46(4): 505–520, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chow:1989:FEE

[Cho89] S.-S. Chow. Finite element error estimates for non-linear elliptic equations of monotone type. *Numerische Mathematik*, 54(4): 373–393, January 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Choudury:1990:FDG

[Cho90] G. Choudury. Fully discrete Galerkin approximations of parabolic boundary-value problems with nonsmooth boundary data. *Numerische Mathematik*, 57(2):179–203, April 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Christiansen:1970:ENS

[Chr70a] Jan Christiansen. Erratum: *Numerical solution of ordinary simultaneous differential equations of the* 1*st order using a method for automatic step change*. *Numerische Mathematik*, 15(1):v, May 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Chr70b].

Christiansen:1970:NSO

[Chr70b] Jan Christiansen. Numerical solution of ordinary simultaneous differential equations of the 1st order using a method for automatic step change. *Numerische Mathematik*, 14(4):317–324, March 1970. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Chr70a].

Clement:1996:IMA

[CHS96] Ph. Clément, R. Hagmeijer, and G. Sweers. On the invertibility of mappings arising in 2D grid generation problems. *Numerische Mathematik*, 73(1): 37–51, March 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073001/60730037.htm; http://science.springer.de/nmee/bibs/6073001/60730037.htm`.

Chung:1976:GAA

[Chu76] Soon Park Chung. Generalization and acceleration of an algorithm of Sebastiao e Silva and its duals. *Numerische Mathematik*, 25(4):365–377, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chung:1979:AZT

[Chu79] Soon Park Chung. An algorithm for the zeros of transcendental functions. *Numerische Mathematik*, 32(4):359–371, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chu:1983:NTC

[Chu83] M. T. Chu. On a numerical treatment for the curve-tracing of the homotopy method. *Numerische Mathematik*, 42(3): 323–329, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chandrasekaran:1994:BEE

[CI94] Shivkumar Chandrasekaran and Ilse C. F. Ipsen. Backward errors for eigenvalue and singular value decompositions. *Numerische Mathematik*, 68(2): 215–223, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680215.htm; http://science.springer.de/nmee/bibs/4068002/40680215.htm`.

Ciarlet:1990:NCV

[Cia90] P. G. Ciarlet. A new class of variational problems arising in the modeling of elastic multistructures. *Numerische Mathematik*, 57(6/7):547–560, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Ciarlet:1998:ERV

[Cia98] Philippe Ciarlet. Editorial: [to Richard S. Varga, seventieth birthday greetings]. *Numerische Mathematik*, 80(4):495, October 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See their earliest joint paper [CSV67].

Chawla:1974:ORP

[CK74] M. M. Chawla and Veena Kaul. Optimal rules with polynomial precision for Hilbert spaces possessing reproducing kernel functions. *Numerische Mathematik*, 22(3):207–218, June 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chawla:1976:ORP

[CK76] M. M. Chawla and V. Kaul. Optimal rules with polynomial precision for Hilbert spaces possessing reproducing kernel functions. II. error bounds. *Numerische Mathematik*, 25(4): 379–382, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chawla:1982:FDM

[CK82] M. M. Chawla and C. P. Katti. Finite difference methods and their convergence for a class of singular two-point boundary value problems. *Numerische Mathematik*, 39(3):341–350, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carstensen:1998:FPS

[CKL98] C. Carstensen, M. Kuhn, and U. Langer. Fast parallel solvers for symmetric boundary element domain decomposition equations. *Numerische Mathematik*, 79(3): 321–347, May 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079003/80790321.htm; http://science.springer.de/nmee/bibs/8079003/80790321.htm`.

Coomes:1995:RCS

[CKP95] Brian A. Coomes, Hüseyin Koçak, and Kenneth J. Palmer. Rigorous computational shadowing of orbits of ordinary differential equations. *Numerische Mathematik*, 69(4):401–421, February 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069004/50690401.htm; http://science.springer.de/nmee/bibs/5069004/50690401.htm`.

Caselles:1997:MSG

[CKSS97] Vicent Caselles, Ron Kimmel, Guillermo Sapiro, and Catalina Sbert. Minimal surfaces: a geometric three dimensional segmentation approach. *Numerische Mathematik*, 77(4): 423–451, October 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077004/70770423.htm; http://science.springer.de/nmee/bibs/7077004/70770423.htm`.

Cheney:1961:TNA

[CL61] E. W. Cheney and H. L. Loeb. Two new algorithms for rational approximation. *Numerische Mathematik*, 3(1):72–75, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cheney:1962:RCA

[CL62] E. W. Cheney and H. L. Loeb. On rational Chebyshev approximation. *Numerische Mathematik*, 4:124–127, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chatelin-Laborde:1971:PMH

[CL71] Françoise Chatelin-Laborde. Perturbation d'une matrice hermitienne ou normale. (French) [Perturbation theory for Hermitian (normal) matrix]. *Numerische Mathematik*, 17(4): 318–337, August 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chatelin:1975:MRR

[CL75] F. Chatelin and M. J. Lemordant. La méthode de Rayleigh–Ritz appliquée à des opérateurs différentielles elliptiques — ordres de convergence des éléments propres. (French) [The Rayleigh–Ritz method applied to elliptic differential operators — orders of convergence of proper elements]. *Numerische Mathematik*, 23(3): 215–222, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chen:1994:SAE

[CL94] Hongsen Chen and Bo Li. Superconvergence analysis and error expansion for the Wilson nonconforming finite element. *Numerische Mathematik*, 69(2): 125–140, December 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069002/40690125.htm; http://science.springer.de/nmee/bibs/4069002/40690125.htm`.

Coquel:1996:ESM

[CL96a] Frédéric Coquel and Philippe G. LeFloch. An entropy satisfying MUSCL scheme for systems of conservation laws. *Numerische Mathematik*, 74(1): 1–33, July 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074001/60740001.htm; http://science.springer.de/nmee/bibs/6074001/60740001.htm`.

Crandall:1996:CDS

[CL96b] Michael G. Crandall and Pierre-Louis Lions. Convergent difference schemes for nonlinear parabolic equations and mean curvature motion. *Numerische Mathematik*, 75(1):17–41, November 1996. CODEN NUMMA7. ISSN 0029-599X

(print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6075001/60750017.htm; http://science.springer.de/nmee/bibs/6075001/60750017.htm.

Chambolle:1997:IRT

[CL97] Antonin Chambolle and Pierre-Louis Lions. Image recovery via total variation minimization and related problems. *Numerische Mathematik*, 76(2): 167–188, April 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7076002/70760167.htm; http://science.springer.de/nmee/bibs/7076002/70760167.htm.

Claessens:1976:NAO

[Cla76] G. Claessens. A new algorithm for oscillatory rational interpolation. *Numerische Mathematik*, 27(1):77–83, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Claessens:1978:UIR

[Cla78] G. Claessens. A useful identity for the rational Hermite interpolation table. *Numerische Mathematik*, 29(2):227–231, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Clendenin:1966:MNC

[Cle66] W. W. Clendenin. A method for numerical calculation of Fourier integrals. *Numerische Mathematik*, 8(5):422–436, August 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Clendenin:1971:MNQ

[Cle71] W. W. Clendenin. A method for numerical quadrature over an infinite interval using systematically increasing mesh size. *Numerische Mathematik*, 16(5): 397–407, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Clements:1992:CPP

[Cle92] John C. Clements. A convexity-preserving C^2 parametric rational cubic interpolation. *Numerische Mathematik*, 63(2): 165–171, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chow:1962:SLE

[CM62] Tse-Sun Chow and Harold W. Milnes. Solution of Laplace's equation by boundary contraction over regions of irregular shape. *Numerische Mathematik*, 4:209–225, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chow:1970:NSL

[CM70] T. S. Chow and H. W. Milnes. Numerical solution of Laplace equation for annular region. *Numerische Mathematik*, 16(3): 231–242, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Crandall:1980:MFS

[CM80] Michael Crandall and Andrew Majda. The method of fractional steps for conservation laws. *Numerische Mathematik*, 34(3):285–314, September 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Criscuolo:1989:UCG

[CM89] G. Criscuolo and G. Mastroianni. On the uniform convergence of Gaussian quadrature rules for Cauchy principal value integrals. *Numerische Mathematik*, 54(4):445–461, January 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Costabel:1992:SCS

[CM92] Martin Costabel and William McLean. Spline collocation for strongly elliptic equations on the torus. *Numerische Mathematik*, 62(4):511–538, September 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Campbell:1995:CPI

[CM95] Stephen L. Campbell and Edward Moore. Constraint preserving integrators for general nonlinear higher index DAEs. *Numerische Mathematik*, 69(4): 383–399, February 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069004/50690383.htm; http://science.springer.de/nmee/bibs/5069004/50690383.htm`.

Cottet:1990:PMS

[CMG90] G. H. Cottet and S. Mas-Gallic. A particle method to solve the Navier–Stokes system. *Numerische Mathematik*, 57(8): 805–827, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Criscuolo:1991:UCD

[CMO91] Giuliana Criscuolo, Giuseppe Mastroianni, and Donatella Occorsio. Uniform convergence of derivatives of extended Lagrange interpolation. *Numerische Mathematik*, 60(2): 195–218, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Canuto:1982:ACF

[CMQ82] C. Canuto, Y. Maday, and A. Quarteroni. Analysis of the combined finite element

and Fourier interpolation. *Numerische Mathematik*, 39(2): 205–220, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Canuto:1984:CFE

[CMQ84] Claudio Canuto, Yvon Maday, and Alfio Quarteroni. Combined finite element and spectral approximation of the Navier–Stokes equations. *Numerische Mathematik*, 44(2):201–217, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cosnard:1986:PDR

[CMR86] M. Cosnard, J.-M. Muller, and Y. Robert. Parallel QR decomposition of a rectangular matrix. *Numerische Mathematik*, 48(2): 239–249, February 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Choi:1993:MPM

[CMR93] Y. S. Choi, P. J. McKenna, and M. Romano. A mountain pass method for the numerical solution of semilinear wave equations. *Numerische Mathematik*, 64(4):487–509, April 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Clenshaw:1963:ASF

[CMW63] C. W. Clenshaw, G. F. Miller, and M. Woodger. Algorithms for special functions. I. *Numerische Mathematik*, 4:403–419, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciarlet:1970:NMH

[CNV70] P. G. Ciarlet, F. Natterer, and R. S. Varga. Numerical methods of high-order accuracy for singular nonlinear boundary value problems. *Numerische Mathematik*, 15(2):87–99, June 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Csordas:1988:LBB

[CNV88] G. Csordas, T. S. Norfolk, and R. S. Varga. A lower bound for the de Bruijn-Newman constant Λ. *Numerische Mathematik*, 52 (5):483–497, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cochran:1965:ZHF

[Coc65] James Alan Cochran. The zeros of Hankel functions as functions of their order. *Numerische Mathematik*, 7(3):238–250, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cohn:1959:NSR

[Coh59] Harvey Cohn. Numerical study of the representation of a totally positive quadratic integer as the sum of quadratic integral squares. *Numerische Mathematik*, 1:121–134, December 1959. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Cohn:1960:NSW

[Coh60] Harvey Cohn. A numerical study of Weber's real class number calculation. Part I. *Numerische Mathematik*, 2(1):347–362, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=2&issue=1&spage=347`.

Cohen:1994:PP

[Coh94] A. M. Cohen. Is the polynomial so perfidious? *Numerische Mathematik*, 68(2):225–238, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680225.htm; http://science.springer.de/nmee/bibs/4068002/40680225.htm`.

Collatz:1961:MEB

[Col61] Lothar Collatz. Monotonie und Extremalprinzipien beim Newtonschen Verfahren. (German) [Monotonicty and extremal principles of Newton methods]. *Numerische Mathematik*, 3:99–106, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Comet:1959:UAB

[Com59] Stig Comét. Über die Anwendung von Binärmodellen in der Theorie der Charaktere der symmetrischen Gruppen. (German) [On the use of the binary model in the theory of characters of symmetric groups]. *Numerische Mathematik*, 1:90–109, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Comodi:1985:ABP

[Com85] M. I. Comodi. Approximation of a bending plate problem with a boundary unilateral constraint. *Numerische Mathematik*, 47(3):435–458, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

ContesseB:1980:CCM

[Con80] Luis Contesse B. Une caractérisation complète des minima locaux en programmation quadratique. (French) [A complete characterization of local minima in quadratic programming]. *Numerische Mathematik*, 34(3):315–332, September 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Conca:1984:AQP

[Con84] Carlos Conca. Approximation de quelques problèmes de type Stokes par une méthode d'éléments finis mixtes. (French) [Mixed finite element approx-

imation of Stokes-type problems]. *Numerische Mathematik*, 45(1):75–91, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cooper:1971:EBN

[Coo71] G. J. Cooper. Error bounds for numerical solutions of ordinary differential equations. *Numerische Mathematik*, 18(2): 162–170, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cordellier:1977:PRV

[Cor77] F. Cordellier. Particular rules for the vector ϵ-algorithm. *Numerische Mathematik*, 27(2): 203–207, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cranley:1970:RMM

[CP70] R. Cranley and T. N. L. Patterson. A regression method for the Monte Carlo evaluation of multidimensional integrals. *Numerische Mathematik*, 16(1):58–72, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cerutti:1976:CMP

[CP76] John H. Cerutti and Seymour V. Parter. Collocation methods for parabolic partial differential equations in one space dimension. *Numerische Mathematik*, 26(3):227–254, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carnicer:1994:LSB

[CP94a] J. M. Carnicer and J. M. Peña. Least supported bases and local linear independence. *Numerische Mathematik*, 67(3): 289–301, April 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067003/40670289.htm; http://science.springer.de/nmee/bibs/4067003/40670289.htm`.

Chenais:1994:LPC

[CP94b] D. Chenais and J. C. Paumier. On the locking phenomenon for a class of elliptic problems. *Numerische Mathematik*, 67(4): 427–440, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067004/40670427.htm; http://science.springer.de/nmee/bibs/4067004/40670427.htm`.

Capatina-Papaghiuc:1998:NFE

[CPT98] Daniela Capatina-Papaghiuc and Jean-Marie Thomas. Nonconforming finite element methods without numerical locking. *Numerische Mathematik*, 81(2): 163–186, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/`

journals/00211/bibs/8081002/80810163.htm; http://link.springer.de/link/service/journals/00211/papers/8081002/80810163.pdf.

Chawla:1974:NEI

[CR74] M. M. Chawla and T. R. Ramakrishnan. Numerical evaluation of integrals of periodic functions with Cauchy and Poisson type kernels. *Numerische Mathematik*, 22(4):317–323, August 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Christiansen:1980:DCU

[CR80] J. Christiansen and R. D. Russell. Deferred corrections using uncentered end formulas. *Numerische Mathematik*, 35(1): 21–33, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Charrier:1989:ACC

[CR89] P. Charrier and J. Roman. Algorithmique et calculs de complexité pour un solveur de type dissections emboî tées. (French) [Algorithmic study and complexity bounds for a nested dissection solver]. *Numerische Mathematik*, 55(4): 463–476, July 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Carstensen:1993:CHO

[CR93] Carsten Carstensen and Martin Reinders. On a class of higher-order methods for simultaneous root finding of generalized polynomials. *Numerische Mathematik*, 64(1):69–84, January 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Calvetti:1994:ABM

[CR94] D. Calvetti and L. Reichel. Application of a block modified Chebyshev algorithm to the iterative solution of symmetric linear systems with multiple right hand side vectors. *Numerische Mathematik*, 68(1): 3–16, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4068001/40680003.htm; http://science.springer.de/nmee/bibs/4068001/40680003.htm.

Cromme:1976:KVE

[Cro76] Ludwig Cromme. Eine Klasse von Verfahren zur Ermittlung bester nichtlinearer Tschebyscheff-Approximationen. (German) [A class of numerical procedures for finding best nonlinear Chebyshev approximations]. *Numerische Mathematik*, 25(4): 447–459, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cromme:1977:NMB

[Cro77] Ludwig Cromme. Numerische Methoden zur Behandlung

einiger Problemklassen der nichtlinearen Tschebyscheff-Approximation mit Nebenbedingungen. (German) [Numerical methods for constrained nonlinear Chebyshev approximation]. *Numerische Mathematik*, 28(1):101–117, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cromme:1978:SUF

[Cro78] Ludwig Cromme. Strong uniqueness: a far-reaching criterion for the convergence analysis of iterative procedures. *Numerische Mathematik*, 29(2): 179–193, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Crouzeix:1979:SMR

[Cro79] Michel Crouzeix. Sur la B-stabilité des méthodes de Runge–Kutta. (French) [On the B-stability of Runge–Kutta methods]. *Numerische Mathematik*, 32(1):75–82, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Crouzeix:1980:MMI

[Cro80] Michel Crouzeix. Une méthode multipas implicite-explicite pour l'approximation des équations d'évolution paraboliques. (French) [A multipass explicit-implicit method for the approximation of parabolic evolutionary equations]. *Numerische Mathematik*, 35(3):257–276, October 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cryer:1967:CLE

[Cry67] C. W. Cryer. On the calculation of the largest eigenvalue of an integral equation. *Numerische Mathematik*, 10(2): 165–176, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cryer:1968:PSG

[Cry68] C. W. Cryer. Pivot size in Gaussian elimination. *Numerische Mathematik*, 12(4): 335–345, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cryer:1973:NSB

[Cry73] Colin W. Cryer. The numerical solution of boundary value problems for second order functional differential equations by finite differences. *Numerische Mathematik*, 20(4):288–299, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Calvetti:1999:IEF

[CRZ99] D. Calvetti, L. Reichel, and Q. Zhang. Iterative exponential filtering for large discrete ill-posed problems. *Numerische Mathematik*, 83(4):535–556, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://`

link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830535.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830535.pdf.

Collatz:1959:ELR

[CS59] Lothar Collatz and J. Schroeder. Einschließen der Lösungen von Randwertaufgaben. (German) [Bracketing solutions to boundary value problems]. *Numerische Mathematik*, 1:61–72, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cody:1966:RCA

[CS66] W. J. Cody and J. Stoer. Rational Chebyshev approximations using interpolation. *Numerische Mathematik*, 9(3):177–188, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [CS68].

Cody:1968:CRC

[CS68] W. J. Cody and J. Stoer. Corrigendum: "Rational Chebyshev approximations using interpolation". *Numerische Mathematik*, 12(3):230, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [CS66].

Chartres:1976:CLM

[CS76] Bruce A. Chartres and Robert S. Stepleman. Convergence of linear multistep methods for differential equations with discontinuities. *Numerische Mathematik*, 27(1):1–10, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chocholaty:1979:NMB

[CŠ79] Pavel Chocholaty and L'udomír Šlahor. A numerical method to boundary value problems for second order delay differential equations. *Numerische Mathematik*, 33(1):69–75, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shi:1984:CCQ

[cS84] Zhong ci Shi. A convergence condition for the quadrilateral Wilson element. *Numerische Mathematik*, 44(3):349–361, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Canuto:1986:AKS

[CS86] Claudio Canuto and Giovanni Sacchi Landriani. Analysis of the Kleiser-Schumann method. *Numerische Mathematik*, 50(2):217–243, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Costabel:1988:DEN

[CS88] Martin Costabel and Ernst P. Stephan. Duality estimates for the numerical solution of integral equations. *Numerische Mathematik*, 54(3):

339–353, December 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chandler:1990:SQM

[CS90] G. A. Chandler and I. H. Sloan. Spline qualocation methods for boundary integral equations. *Numerische Mathematik*, 58(5):537–567, December 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [CS92].

Chandler:1992:EQM

[CS92] G. A. Chandler and I. H. Sloan. Erratum: "Spline qualocation methods for boundary integral equations" [Numer. Math. **58** (1990), no. 5, 537–567 and MR 91m:65323]. *Numerische Mathematik*, 62(2):295, July 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [CS90].

Calvo:1994:CS

[CS94] M. P. Calvo and J. M. Sanz-Serna. Canonical B-series. *Numerische Mathematik*, 67(2): 161–175, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670161.htm; http://science.springer.de/nmee/bibs/4067002/40670161.htm`.

Crouzeix:1998:AEE

[CS98] Michel Crouzeix and Francisco-Javier Sayas. Asymptotic expansions of the error of spline Galerkin boundary element methods. *Numerische Mathematik*, 78(4):523–547, February 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078004/70780523.htm; http://science.springer.de/nmee/bibs/7078004/70780523.htm`.

Ciarlet:1967:NMH

[CSV67] P. G. Ciarlet, M. H. Schultz, and R. S. Varga. Numerical methods of high-order accuracy for nonlinear boundary value problems. I: One dimensional problem. *Numerische Mathematik*, 9(5):394–430, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See birthday greetings [Cia98].

Ciarlet:1968:NMHa

[CSV68a] P. G. Ciarlet, M. H. Schultz, and R. S. Varga. Numerical methods of high-order accuracy for nonlinear boundary value problems. II: Nonlinear boundary conditions. *Numerische Mathematik*, 11(4):331–345, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciarlet:1968:NMHb

[CSV68b] P. G. Ciarlet, M. H. Schultz, and R. S. Varga. Numerical methods of high-order accuracy for

nonlinear boundary value problems. III: Eigenvalue problems. *Numerische Mathematik*, 12(2): 120–133, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciarlet:1968:NMHc

[CSV68c] P. G. Ciarlet, M. H. Schultz, and R. S. Varga. Numerical methods of high-order accuracy for nonlinear boundary value problems. IV: Periodic boundary conditions. *Numerische Mathematik*, 12(4):266–279, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciarlet:1969:NMH

[CSV69] P. G. Ciarlet, M. H. Schultz, and R. S. Varga. Numerical methods of high-order accuracy for nonlinear boundary value problems. V: Monotone operator theory. *Numerische Mathematik*, 13(1):51–77, March 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chan:1996:OSM

[CSZ96] Tony F. Chan, Barry F. Smith, and Jun Zou. Overlapping Schwarz methods on unstructured meshes using nonmatching coarse grids. *Numerische Mathematik*, 73(2): 149–167, April 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073002/60730149.htm; http://science.springer.de/nmee/bibs/6073002/60730149.htm`.

Chen:1991:IUS

[CT91] Min Chen and Roger Temam. Incremental unknowns for solving partial differential equations. *Numerische Mathematik*, 59(3):255–271, June 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chen:1993:NGM

[CT93] Min Chen and Roger Temam. Nonlinear Galerkin method in the finite difference case and wavelet-like incremental unknowns. *Numerische Mathematik*, 64(3):271–294, March 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Culpin:1986:CCS

[Cul86] David Culpin. Calculation of cubic smoothing splines for equally spaced data. *Numerische Mathematik*, 48(6):627–638, June 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cuppen:1981:DCM

[Cup81] J. J. M. Cuppen. A divide and conquer method for the symmetric tridiagonal eigenproblem. *Numerische Mathematik*, 36(2):177–195, April 1981. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Cuppen:1984:UTP

[Cup84] J. J. M. Cuppen. On updating triangular products of Householder reflections. *Numerische Mathematik*, 45(3): 403–409, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Curtis:1970:EOR

[Cur70] A. R. Curtis. An eighth order Runge–Kutta process with eleven function evaluations per step. *Numerische Mathematik*, 16(3):268–277, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cuyt:1982:AMP

[Cuy82] Annie A. M. Cuyt. The ε-algorithm and multivariate Padé-approximants. *Numerische Mathematik*, 40(1):39–46, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cuyt:1983:ACT

[Cuy83a] Annie A. M. Cuyt. Accelerating the convergence of a table with multiple entry. *Numerische Mathematik*, 41(2): 281–286, June 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cuyt:1983:QAM

[Cuy83b] Annie A. M. Cuyt. The QD-algorithm and multivariate Padé-approximants. *Numerische Mathematik*, 42(3): 259–269, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciarlet:1970:DVG

[CV70] P. G. Ciarlet and R. S. Varga. Discrete variational Green's function. *Numerische Mathematik*, 16(2):115–128, November 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Csordas:1984:CRS

[CV84a] George Csordas and Richard S. Varga. Comparisons of regular splittings of matrices. *Numerische Mathematik*, 44(1): 23–35, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cuyt:1984:GON

[CV84b] Annie A. M. Cuyt and Brigitte M. Verdonk. General order Newton–Padé approximants for multivariate functions. *Numerische Mathematik*, 43(2): 293–307, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciarlet:1994:MAS

[CV94] Philippe G. Ciarlet and Richard S. Varga. In memoriam: Alston Scott Householder, 1904–1993. *Numerische Mathematik*,

68(2):187, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4068002/40680187.htm; http://science.springer.de/nmee/bibs/4068002/40680187.htm.

Charlier:1988:EIK

[CVV88] J. P. Charlier, M. Vanbegin, and P. Van Dooren. On efficient implementations of Kogbetliantz's algorithm for computing the singular value decomposition. *Numerische Mathematik*, 52(3):279–300, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ciarlet:1971:MTF

[CW71] P. G. Ciarlet and C. Wagschal. Multipoint Taylor formulas and applications to the finite element method. *Numerische Mathematik*, 17(1):84–100, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Conrad:1977:FSA

[CW77] V. Conrad and Y. Wallach. A faster SSOR algorithm. *Numerische Mathematik*, 27(4): 371–372, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Cooper:1978:LFE

[CW78] G. J. Cooper and F. C. P. Whitworth. Liapunov functions and error bounds for approximate solutions of ordinary differential equations. *Numerische Mathematik*, 30(4):411–414, December 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Conrad:1979:AMS

[CW79a] V. Conrad and Y. Wallach. Alternating methods for sets of linear equations. *Numerische Mathematik*, 32(1): 105–108, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Craven:1979:SND

[CW79b] Peter Craven and Grace Wahba. Smoothing noisy data with spline functions. estimating the correct degree of smoothing by the method of generalized cross-validation. *Numerische Mathematik*, 31(4):377–403, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chen:1998:FEM

[CZ98] Zhiming Chen and Jun Zou. Finite element methods and their convergence for elliptic and parabolic interface problems. *Numerische Mathematik*, 79(2): 175–202, April 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079002/80790175.htm; http://science.springer.

de/nmee/bibs/8079002/80790175.htm.

Ciarlet:1999:FDF

[CZ99] P. Ciarlet, Jr. and Jun Zou. Fully discrete finite element approaches for time-dependent Maxwell's equations. *Numerische Mathematik*, 82(2): 193–219, April 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082002/90820193.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082002/90820193.pdf.

Dieter:1971:EDS

[DA71] U. Dieter and J. Ahrens. An exact determination of serial correlations of pseudo-random numbers. *Numerische Mathematik*, 17(2):101–123, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Davies:1986:IES

[DA86] A. R. Davies and R. S. Anderssen. Improved estimates of statistical regularization parameters in Fourier differentiation and smoothing. *Numerische Mathematik*, 48(6): 671–697, June 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dagnino:1990:PIS

[Dag90] Catterina Dagnino. Product integration of singular integrands based on cubic spline interpolation at equally spaced nodes. *Numerische Mathematik*, 57(1): 97–104, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dahlquist:1985:TGM

[Dah85] Germund Dahlquist. On transformations of graded matrices, with applications to stiff ODEs. *Numerische Mathematik*, 47(3): 363–385, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Daniel:1966:CAM

[Dan66] James W. Daniel. Correcting approximations to multiple roots of polynomials. *Numerische Mathematik*, 9(1):99–102, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Daniel:1967:CCG

[Dan67] James W. Daniel. Convergence of the conjugate gradient method with computationally convenient modifications. *Numerische Mathematik*, 10(2): 125–131, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Daniel:1970:SGC

[Dan70] James W. Daniel. A simple, global, complementary variational principle. *Numerische Mathematik*, 16(1):52–57, February 1970. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Daniel:1973:NMN

[Dan73] James W. Daniel. Newton's method for nonlinear inequalities. *Numerische Mathematik*, 21(5):381–387, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Davis:1962:NSP

[Dav62] Chandler Davis. The norm of the Schur product operation. *Numerische Mathematik*, 4:343–344, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Davis:1970:TY

[Dav70] Chandler Davis. On a theorem of Yamamoto. *Numerische Mathematik*, 14(3): 297–298, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Delves:1977:OCW

[DB77] L. M. Delves and M. Bain. On the optimum choice of weight functions in a class of variational calculations. *Numerische Mathematik*, 27(2):209–218, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

deBoor:1977:BEA

[dBP77] Carl de Boor and Allan Pinkus. A backward error analysis for totally positive linear systems. *Numerische Mathematik*, 27(4): 485–490, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Demoulin:1974:IMS

[DC74] Yves-Marie J. Demoulin and Y. M. Chen. An iteration method for studying the bifurcation of solutions of the nonlinear equations, $L(\lambda)u + \epsilon R(\lambda, u) = 0$. *Numerische Mathematik*, 23 (1):47–61, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

DiBenedetto:1999:UAA

[DC99] Fabio Di Benedetto and Stefano Serra Capizzano. A unifying approach to abstract matrix algebra preconditioning. *Numerische Mathematik*, 82(1):57–90, March 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082001/90820057.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082001/90820057.pdf`.

Douglas:1973:GMP

[DD73a] Jim Douglas, Jr. and Todd Dupont. Galerkin methods for parabolic equations with nonlinear boundary conditions. *Numerische Mathematik*, 20(3): 213–237, June 1973. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Douglas:1973:SGM

[DD73b] Jim Douglas, Jr. and Todd Dupont. Superconvergence for Galerkin methods for the two point boundary problem via local projections. *Numerische Mathematik*, 21(3): 270–278, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Douglas:1974:GAT

[DD74] Jim Douglas, Jr. and Todd Dupont. Galerkin approximations for the two point boundary problem using continuous, piecewise polynomial spaces. *Numerische Mathematik*, 22(2):99–109, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Davies:1975:GCH

[DD75] M. Davies and B. Dawson. On the global convergence of Halley's iteration formula. *Numerische Mathematik*, 24(2): 133–135, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Davies:1978:ASP

[DD78] M. Davies and B. Dawson. An automatic search procedure for finding real zeros. *Numerische Mathematik*, 31(3): 299–312, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

DellaDora:1984:APHb

[DD84a] J. Della Dora and C. Di Crescenzo. Approximants de Padé–Hermite. II. programmation. (French) [Padé–Hermite approximants. II. Programming]. *Numerische Mathematik*, 43(1):41–57, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

DellaDora:1984:APHa

[DD84b] J. Della Dora and C. Di Crescenzo. Approximants de Padé-hermite. I. théorie. (French) [Padé–Hermite approximants. I. theory]. *Numerische Mathematik*, 43(1):23–39, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deckelnick:1995:CFE

[DD95] Klaus Deckelnick and Gerhard Dziuk. Convergence of a finite element method for non-parametric mean curvature flow. *Numerische Mathematik*, 72(2):197–222, December 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072002/50720197.htm`; `http://science.springer.de/nmee/bibs/5072002/50720197.htm`.

Delfour:1998:FMA

[DD98] Michel Delfour and François Dubeau. Fixed mesh approximation of ordinary differential equations with impulses. *Numerische Mathematik*, 78(3): 377–401, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078003/70780377.htm; http://science.springer.de/nmee/bibs/7078003/70780377.htm`.

Damelin:1999:IPQ

[DD99] S. B. Damelin and Kai Diethelm. Interpolatory product quadratures for Cauchy principal value integrals with Freud weights. *Numerische Mathematik*, 83(1):87–105, July 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083001/90830087.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083001/90830087.pdf`.

Dahmen:1992:MEB

[DDM92] Wolfgang Dahmen, Ronald A. DeVore, and Charles A. Micchelli. On monotone extensions of boundary data. *Numerische Mathematik*, 60(4): 477–492, January 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Douglas:1975:SPF

[DDW75] Jim Douglas, Jr., Todd Dupont, and Lars Wahlbin. The stability in L^q of the L^2-projection into finite element function spaces. *Numerische Mathematik*, 23(3): 193–197, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

DeMeersman:1968:MG

[De 68] R. De Meersman. The method of Garabedian. *Numerische Mathematik*, 11(3):257–263, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

deLaBourdonnaye:1995:SFC

[de 95] Armel de La Bourdonnaye. Some formulations coupling finite element and integral equation methods for Helmholtz equation and electromagnetism. *Numerische Mathematik*, 69(3): 257–268, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069003/50690257.htm; http://science.springer.de/nmee/bibs/5069003/50690257.htm`.

Dieci:1994:PDN

[DE94] Luca Dieci and Timo Eirola. Positive definiteness in the numerical solution of Riccati differential equations. *Numerische Mathematik*, 67(3): 303–313, April 1994. CODEN NUMMA7. ISSN 0029-599X

(print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4067003/40670303.htm; http://science.springer.de/nmee/bibs/4067003/40670303.htm.

Dieci:1996:PMN

[DE96] Luca Dieci and Timo Eirola. Preserving monotonicity in the numerical solution of Riccati differential equations. *Numerische Mathematik*, 74(1): 35–47, July 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074001/60740035.htm; http://science.springer.de/nmee/bibs/6074001/60740035.htm.

Deak:1980:TDA

[Deá80] I. Deák. Three digit accurate multiple normal probabilities. *Numerische Mathematik*, 35(4):369–380, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deif:1989:RBP

[Dei89] A. Deif. A relative backward perturbation theorem for the eigenvalue problem. *Numerische Mathematik*, 56(6): 625–626, December 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dejon:1966:AST

[Dej66a] B. Dejon. Addendum to "stronger than uniform convergence of multistep difference methods". *Numerische Mathematik*, 9(3):268–270, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Dej66b].

Dejon:1966:STU

[Dej66b] B. Dejon. Stronger than uniform convergence of multistep difference methods. *Numerische Mathematik*, 8(1):29–41, March 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See addendum [Dej66a].

Dekker:1971:FPT

[Dek71] Theodorus J. Dekker. A floating-point technique for extending the available precision. *Numerische Mathematik*, 18(3): 224–242, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://www-gdz.sub.uni-goettingen.de/cgi-bin/digbib.cgi?PPN362160546_0018.

Delchambre:1973:AMD

[Del73] M. Delchambre. De l'avantage des méthodes aux différences modifiées de Stiefel–Bettis pour la résolution d'équations différentielles du second ordre perturbées. (French) [The advantage of modified Stiefel–Bettis difference methods for the solution of perturbed second or-

der differential equations]. *Numerische Mathematik*, 21(1):33–36, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Delahaye:1980:APS

[Del80] Jean-Paul Delahaye. Algorithmes pour suites non convergentes. (French) [Algorithms for nonconvergent sequences]. *Numerische Mathematik*, 34(3): 333–347, September 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Demmel:1987:CND

[Dem87] James Weldon Demmel. On condition numbers and the distance to the nearest ill-posed problem. *Numerische Mathematik*, 51(3):251–289, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dennis:1968:NLM

[Den68] J. E. Dennis, Jr. On Newton-like methods. *Numerische Mathematik*, 11(4):324–330, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Descloux:1961:DAT

[Des61] J. Descloux. Dégénérescence dans les approximations de Tschebyscheff linéaires et discrètes. (French) [Degeneration in linear and discrete Chebyshev approximations]. *Numerische Mathematik*, 3:180–187, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Descloux:1963:BSN

[Des63] Jean Descloux. Bounds for the spectral norm of functions of matrices. *Numerische Mathematik*, 5(1):185–190, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Descloux:1970:NIH

[Des70] J. Descloux. On the numerical integration of the heat equation. *Numerische Mathematik*, 15(5): 371–381, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deutsch:1970:MN

[Deu70] Emeric Deutsch. Matricial norms. *Numerische Mathematik*, 16(1):73–84, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deuflhard:1974:MNM

[Deu74] P. Deuflhard. A modified Newton method for the solution of ill-conditioned systems of nonlinear equations with application to multiple shooting. *Numerische Mathematik*, 22(4): 289–315, August 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deutsch:1975:MNL

[Deu75] Emeric Deutsch. On matrix norms and logarithmic norms. *Numerische Mathematik*, 24(1): 49–51, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deuflhard:1979:SCC

[Deu79] P. Deuflhard. A stepsize control for continuation methods and its special application to multiple shooting techniques. *Numerische Mathematik*, 33(2): 115–146, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deuflhard:1983:OSC

[Deu83] P. Deuflhard. Order and stepsize control in extrapolation methods. *Numerische Mathematik*, 41(3):399–422, July 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

deFrutos:1997:ACP

[dFSS97] J. de Frutos and J. M. Sanz-Serna. Accuracy and conservation properties in numerical integration: The case of the Korteweg–de Vries equation. *Numerische Mathematik*, 75(4): 421–445, February 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075004/70750421.htm; http://science.springer.de/nmee/bibs/7075004/70750421.htm`.

Douglas:1986:SMF

[DG86] Jim Douglas, Jr. and Chaitan P. Gupta. Superconvergence for a mixed finite element method for elastic wave propagation in a plane domain. *Numerische Mathematik*, 49(2/3): 189–202, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Demkowicz:1998:CIE

[DG98] L. Demkowicz and K. Gerdes. Convergence of the infinite element methods for the Helmholtz equation in separable domains. *Numerische Mathematik*, 79(1): 11–42, March 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079001/80790011.htm; http://science.springer.de/nmee/bibs/8079001/80790011.htm`.

Delahaye:1980:RNA

[DGB80] J. P. Delahaye and B. Germain-Bonne. Résultats négatifs en accélération de la convergence. (French) [Negative results in convergence acceleration]. *Numerische Mathematik*, 35(4): 443–457, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Du:1999:ACM

[DGL99] Qiang Du, Max D. Gunzburger, and Hyesuk Kwon Lee. Analysis and computation of a mean-

field model for superconductivity. *Numerische Mathematik*, 81(4):539–560, February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810539.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810539.pdf`.

Dahmen:1988:CSF

[DGM88] W. Dahmen, T. N. T. Goodman, and Charles A. Micchelli. Compactly supported fundamental functions for spline interpolation. *Numerische Mathematik*, 52(6):639–664, June 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Du:1993:FEA

[DGP93] Qiang Du, Max Gunzburger, and Janet Peterson. Finite element approximation of a periodic Ginzburg–Landau model for type-II superconductors. *Numerische Mathematik*, 64(1):85–114, January 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dittrich:1980:MCS

[DH80] Susanne Dittrich and Wolfgang Hackbusch. A method of characteristics solving the initial-boundary value problem of a hyperbolic differential equation of second order. *Numerische Mathematik*, 34(3):217–234, September 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dekker:1989:RGJ

[DH89] T. J. Dekker and W. Hoffmann. Rehabilitation of the Gauss–Jordan algorithm. *Numerische Mathematik*, 54(5): 591–599, February 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

dHennezel:1993:DDM

[d'H93a] Frédéric d'Hennezel. Domain decomposition method and elastic multi-structures: the stiffened plate problem. *Numerische Mathematik*, 66(2): 181–197, November 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Drmac:1993:QCB

[DH93b] Zlatko Drmač and Vjeran Hari. On quadratic convergence bounds for the J-symmetric Jacobi method. *Numerische Mathematik*, 64(2):147–180, February 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dellnitz:1997:SAC

[DH97] Michael Dellnitz and Andreas Hohmann. A subdivision algorithm for the computation of unstable manifolds and global attractors. *Numerische Mathematik*, 75(3):293–317, January 1997. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7075003/70750293.htm; http://science.springer.de/nmee/bibs/7075003/70750293.htm.

deHoog:1987:EMC

[dHH87] F. R. de Hoog and M. F. Hutchinson. An efficient method for calculating smoothing splines using orthogonal transformations. *Numerische Mathematik*, 50(3):311–319, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

DeLillo:1999:NCM

[DHP99a] Thomas K. DeLillo, Mark A. Horn, and John A. Pfaltzgraff. Numerical conformal mapping of multiply connected regions by Fornberg-like methods. *Numerische Mathematik*, 83(2):205–230, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083002/90830205.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083002/90830205.pdf.

Douglas:1999:MMC

[DHP99b] Jim Douglas, Jr., Chieh-Sen Huang, and Felipe Pereira. The modified method of characteristics with adjusted advection. *Numerische Mathematik*, 83(3):353–369, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830353.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830353.pdf.

deHoog:1973:SVI

[dHW73] Frank de Hoog and Richard Weiss. On the solution of Volterra integral equations of the first kind. *Numerische Mathematik*, 21(1):22–32, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

deHoog:1975:IRM

[dHW75] F. de Hoog and R. Weiss. Implicit Runge–Kutta methods for second kind Volterra integral equations. *Numerische Mathematik*, 23(3):199–213, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deuflhard:1987:OSE

[DHZ87] P. Deuflhard, E. Hairer, and J. Zugck. One-step and extrapolation methods for differential-algebraic systems. *Numerische Mathematik*, 51(5):501–516, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Diaz:1980:CDP

[Dia80] F. Utreras Diaz. Sur le choix du paramètre d'ajustement dans le lissage par fonctions spline. (French) [On the choice of the adjustment parameter in smoothing by spline functions]. *Numerische Mathematik*, 34(1): 15–28, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dickmeis:1987:CTC

[Dic87] W. Dickmeis. Comparison theorems for compound quadrature formulas. *Numerische Mathematik*, 50(5):547–556, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dietel:1987:FIM

[Die87] Carmen Dietel. A fast iterative method for solving stationary heat conduction problems on regions partitioned into rectangles. *Numerische Mathematik*, 51(4):415–428, August 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Diethelm:1996:PKB

[Die96] Kai Diethelm. Peano kernels and bounds for the error constants of Gaussian and related quadrature rules for Cauchy principal value integrals. *Numerische Mathematik*, 73(1): 53–63, March 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073001/60730053.htm; http://science.springer.de/nmee/bibs/6073001/60730053.htm`.

Dijkstra:1959:NTP

[Dij59] E. W. Dijkstra. A note on two problems in connexion with graphs. *Numerische Mathematik*, 1(1):269–271, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=269`.

Dijkstra:1960:RP

[Dij60] E. W. Dijkstra. Recursive programming. *Numerische Mathematik*, 2(1):312–318, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dingyi:1983:ABP

[Din83] Mu Dingyi. Asymptotic behavior of the polynomial factor in the interpolation error. *Numerische Mathematik*, 42(2): 247–257, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dirschmid:1969:BAG

[Dir69] H. J. Dirschmid. Bemerkungen zu einer Arbeit von G. Polya zur Bestimmung der Nullstellen ganzer Funktionen. (German) [Comment on a work by

G. Polya for determining zeros of real functions]. *Numerische Mathematik*, 13(4):344–348, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dixon:1967:HSC

[Dix67] John D. Dixon. High speed computation of group characters. *Numerische Mathematik*, 10(5):446–450, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dixon:1982:ESL

[Dix82] John D. Dixon. Exact solution of linear equations using P-adic expansions. *Numerische Mathematik*, 40(1):137–141, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Douglas:1962:NMI

[DJ62] J. Douglas, Jr. and B. F. Jones, Jr. Numerical methods for integrodifferential equations of parabolic and hyperbolic types. *Numerische Mathematik*, 4:96–102, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Davis:1969:NIL

[DJ69] Joel Davis and Jerome J. Jacoby. Numerical integration of linear integral equations with mild discontinuity. *Numerische Mathematik*, 13(4):357–361, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

deJong:1977:TFD

[dJ77] Lieuwe Sytse de Jong. Towards a formal definition of numerical stability. *Numerische Mathematik*, 28(2):211–219, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dax:1977:PTS

[DK77] Achiya Dax and S. Kaniel. Pivoting techniques for symmetric Gaussian elimination. *Numerische Mathematik*, 28(2): 221–241, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Decker:1983:SCC

[DK83] D. W. Decker and C. T. Kelley. Sublinear convergence of the chord method at singular points. *Numerische Mathematik*, 42(2): 147–154, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dahmen:1992:MP

[DK92] Wolfgang Dahmen and Angela Kunoth. Multilevel preconditioning. *Numerische Mathematik*, 63(3):315–344, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dekker:1990:ERB

[DKS90a] K. Dekker, J. F. B. M. Kraaijevanger, and J. Schneid. Er-

ratum: "On the relation between algebraic stability and B-convergence for Runge–Kutta methods". *Numerische Mathematik*, 58(2):230, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [DKS90b].

Dekker:1990:RBA

[DKS90b] K. Dekker, J. F. B. M. Kraaijevanger, and J. Schneid. On the relation between algebraic stability and B-convergence for Runge–Kutta methods. *Numerische Mathematik*, 57(3): 249–262, May 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [DKS90a].

Dai:1997:NMF

[DL97] Hua Dai and Peter Lancaster. Numerical methods for finding multiple eigenvalues of matrices depending on parameters. *Numerische Mathematik*, 76(2): 189–208, April 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076002/70760189.htm; http://science.springer.de/nmee/bibs/7076002/70760189.htm`.

Degond:1994:ESF

[DLD94] Pierre Degond and Brigitte Lucquin-Desreux. An entropy scheme for the Fokker–Planck collision operator of plasma kinetic theory. *Numerische Mathematik*, 68(2): 239–262, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680239.htm; http://science.springer.de/nmee/bibs/4068002/40680239.htm`.

Diekhoff:1977:CRN

[DLO+77] H.-J. Diekhoff, P. Lory, H. J. Oberle, H.-J. Pesch, P. Rentrop, and R. Seydel. Comparing routines for the numerical solution of initial value problems of ordinary differential equations in multiple shooting. *Numerische Mathematik*, 27(4): 449–469, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dodd:1985:ACS

[DM85] S. L. Dodd and D. F. McAllister. Algorithms for computing shape preserving spline approximations to data. *Numerische Mathematik*, 46(2): 159–174, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dyn:1988:PPS

[DM88] Nira Dyn and Charles A. Micchelli. Piecewise polynomial spaces and geometric continuity of curves. *Numerische Mathematik*, 54(3):319–337, December 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dyn:1990:ISR

[DM90] Nira Dyn and Charles A. Micchelli. Interpolation by sums of radial functions. *Numerische Mathematik*, 58(1):1–9, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dubois:1996:NPE

[DM96] François Dubois and Guillaume Mehlman. A non-parameterized entropy correction for Roe's approximate Riemann solver. *Numerische Mathematik*, 73(2): 169–208, April 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073002/60730169.htm; http://science.springer.de/nmee/bibs/6073002/60730169.htm`.

Diaz-Mendoza:1996:CTP

[DMGVO96] Carlos Díaz-Mendoza, Pablo González-Vera, and Ramón Orive. On the convergence of two-point Padé-type approximants. *Numerische Mathematik*, 72(3):295–312, January 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6072003/60720295.htm; http://science.springer.de/nmee/bibs/6072003/60720295.htm`.

Dixon:1986:CAD

[DMJ86] Jennifer Dixon, Sean McKee, and Rolf Jeltsch. Convergence analysis of discretization methods for nonlinear first kind Volterra integral equations. *Numerische Mathematik*, 49(1):67–80, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dahlquist:1983:UPB

[DML83] Germund Dahlquist, Huang Mingyou, and Randall LeVeque. On the uniform power-boundedness of a family of matrices and the applications to one-leg and linear multistep methods. *Numerische Mathematik*, 42(1):1–13, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Duran:1991:AEE

[DMR91] Ricardo Durán, María Amelia Muschietti, and Rodolfo Rodríguez. On the asymptotic exactness of error estimators for linear triangular finite elements. *Numerische Mathematik*, 59(2): 107–127, May 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Destuynder:1986:AND

[DN86] P. Destuynder and J.-C. Nédélec. Approximation numérique du cisaillement transverse dans les plaques minces en flexion. (French) [Numerical approximation of transverse shear stress in

bent plates]. *Numerische Mathematik*, 48(3):281–302, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Degond:1989:NAW

[DN89] P. Degond and B. Niclot. Numerical analysis of the weighted particle method applied to the semiconductor Boltzmann equation. *Numerische Mathematik*, 55(5):599–618, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dickmeis:1984:GAC

[DNvW84] W. Dickmeis, R. J. Nessel, and E. van Wickeren. A general approach to counterexamples in numerical analysis. *Numerische Mathematik*, 43(2): 249–263, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

deOliveira:1970:NIC

[dO70] G. N. de Oliveira. Note on an inverse characteristic value problem. *Numerische Mathematik*, 15(4):345–347, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dobrowolski:1981:MFE

[Dob81] Manfred Dobrowolski. A mixed finite element method for solving the nonstationary Stokes equation. *Numerische Mathematik*, 36(3):225–236, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dobrowolski:1989:DSF

[Dob89] Manfred Dobrowolski. A discrete solenoidal finite difference scheme for the numerical approximation of incompressible flows. *Numerische Mathematik*, 54(5):533–542, February 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dohler:1982:NGS

[Döh82] B. Döhler. Ein neues Gradientenverfahren zur simultanen Berechnung der kleinsten oder größten Eigenwerte des allgemeinen Eigenwertproblems. (German) [A new gradient method for the simultaneous calculation of the smallest or largest eigenvalues of the general eigenvalue problem]. *Numerische Mathematik*, 40(1):79–91, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dollinger:1981:LKZ

[Dol81] E. Dollinger. Ein linear konvergentes zyklisches jacobiähnliches Verfahren für beliebige reelle Matrizen. (German) [A linear convergent cyclic Jacobi-like method for arbitrary real matrices]. *Numerische Mathematik*, 38(2):245–253, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Doring:1966:IIS

[Dör66] Boro Döring. Inverse Interpolation bei den speziellen Funktionen der mathematischen Physik. (German) [Inverse interpolation in the special functions of mathematical physics]. *Numerische Mathematik*, 8(2): 123–136, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Doring:1970:TVB

[Dör70] Boro Döring. Das Tschebyscheff-Verfahren in Banach-Räumen. (German) [Chebyshev's method in Banach spaces]. *Numerische Mathematik*, 15(3): 175–195, July 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dorfler:1990:CSM

[Dör90] W. Dörfler. The conditioning of the stiffness matrix for certain elements approximating the incompressibility condition in fluid dynamics. *Numerische Mathematik*, 58(2): 203–214, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dorfler:1996:TSA

[Dör96] Willy Dörfler. A time- and space-adaptive algorithm for the linear time-dependent Schrödinger equation. *Numerische Mathematik*, 73(4): 419–448, June 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073004/60730419.htm; http://science.springer.de/nmee/bibs/6073004/60730419.htm`.

Douglas:1960:NMS

[Dou60] Jim Douglas. A numerical method for the solution of a parabolic system. *Numerische Mathematik*, 2(1):91–98, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Douglas:1961:ADI

[Dou61] J. Douglas, Jr. Alternating direction iteration for mildly nonlinear elliptic difference equations. *Numerische Mathematik*, 3:92–98, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See correction [Dou62b].

Douglas:1962:ADM

[Dou62a] Jim Douglas, Jr. Alternating direction methods for three space variables. *Numerische Mathematik*, 4:41–63, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Douglas:1962:CMP

[Dou62b] Jim Douglas, Jr. A correction to my paper "Alternating direction iteration for mildly nonlinear elliptic difference equations". *Numerische Mathematik*,

4:301–302, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Dou61].

Douglas:1963:CAD

[DP63] J. Douglas, Jr. and C. M. Pearcy. On convergence of alternating direction procedures in the presence of singular operators. *Numerische Mathematik*, 5(1):175–184, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dailey:1972:EBG

[DP72] J. W. Dailey and J. G. Pierce. Error bounds for the Galerkin method applied to singular and nonsingular boundary value problems. *Numerische Mathematik*, 19(3):266–282, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dikshit:1982:DCS

[DP82] H. P. Dikshit and P. Powar. Discrete cubic spline interpolation. *Numerische Mathematik*, 40(1): 71–78, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dagnino:1985:ECT

[DP85] C. Dagnino and A. Palamara Orsi. On the evaluation of certain two-dimensional singular integrals with Cauchy kernels. *Numerische Mathematik*, 46(1):121–130, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dagnino:1988:PIP

[DP88a] C. Dagnino and A. Palamara Orsi. Product integration of piecewise continuous integrands based on cubic spline interpolation at equally spaced nodes. *Numerische Mathematik*, 52(4): 459–466, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

DeMatteis:1988:PRN

[DP88b] A. De Matteis and S. Pagnutti. Parallelization of random number generators and long-range correlations. *Numerische Mathematik*, 53(5):595–608, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deuflhard:1976:MCM

[DPR76] P. Deuflhard, H.-J. Pesch, and P. Rentrop. A modified continuation method for the numerical solution of nonlinear two-point boundary value problems by shooting techniques. *Numerische Mathematik*, 26(3): 327–343, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Douglas:1993:PIP

[DPRW93] J. Douglas, Jr., P. J. Paes Leme, J. E. Roberts, and Junping Wang. A parallel iterative

procedure applicable to the approximate solution of second order partial differential equations by mixed finite element methods. *Numerische Mathematik*, 65(1):95–108, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Demmler:1975:OMS

[DR75] A. Demmler and C. Reinsch. Oscillation matrices with spline smoothing. *Numerische Mathematik*, 24(5):375–382, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Duran:1992:AEB

[DR92] Ricardo Durán and Rodolfo Rodríguez. On the asymptotic exactness of Bank-Weiser's estimator. *Numerische Mathematik*, 62(3):297–303, August 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Drexler:1977:MBS

[Dre77] Franz-Josef Drexler. Eine Methode zur Berechnung sämtlicher Lösungen von Polynomgleichungssystemen. (German) [A method for computing all solutions of systems of polynomial equations]. *Numerische Mathematik*, 29(1):45–58, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Duchon:1981:PDI

[DRW81] Jean Duchon, Raoul Robert, and Patrick Witomski. Problème de Dirichlet dans l'image bilipschitzienne d'un demi-espace. (French) [The Dirichlet problem in the bi-Lipschitz image of a half-space]. *Numerische Mathematik*, 36(2):129–149, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dryja:1982:CMM

[Dry82] Maksymilian Dryja. A capacitance matrix method for Dirichlet problem on polygon region. *Numerische Mathematik*, 39(1): 51–64, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dryja:1984:FEC

[Dry84] Maksymilian Dryja. A finite element-capacitance method for elliptic problems on regions partitioned into subregions. *Numerische Mathematik*, 44(2): 153–168, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dryanov:1994:QFF

[Dry94] Dimiter P. Dryanov. Quadrature formulae with free nodes for periodic functions. *Numerische Mathematik*, 67(4): 441–464, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/`

00211/bibs/4067004/40670441.htm; http://science.springer.de/nmee/bibs/4067004/40670441.htm.

DAzevedo:1991:OTM

[DS91] E. F. D'Azevedo and R. B. Simpson. On optimal triangular meshes for minimizing the gradient error. *Numerische Mathematik*, 59(4):321–348, July 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dryja:1996:MSM

[DSW96] Maksymilian Dryja, Marcus V. Sarkis, and Olof B. Widlund. Multilevel Schwarz methods for elliptic problems with discontinuous coefficients in three dimensions. *Numerische Mathematik*, 72(3):313–348, January 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6072003/60720313.htm; http://science.springer.de/nmee/bibs/6072003/60720313.htm.

Dekker:1971:ASA

[DT71] T. J. Dekker and J. F. Traub. An analysis of the shifted LR algorithm. *Numerische Mathematik*, 17(3):179–188, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dubrulle:1970:SNI

[Dub70] A. Dubrulle. A short note on the implicit QL algorithm for symmetric tridiagonal matrices. *Numerische Mathematik*, 15(5): 450, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dueck:1959:FEL

[Due59] W. Dueck. Eine Fehlerabschätzung zum Einzelschrittverfahren bei linearen Gleichungssystemen. (German) [An error bound for the independent step method in linear equation systems]. *Numerische Mathematik*, 1:73–77, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dumitrescu:1998:IEA

[Dum98] Bogdan Dumitrescu. Improving and estimating the accuracy of Strassen's algorithm. *Numerische Mathematik*, 79(4): 485–499, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079004/80790485.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790485.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790485.ps.gz.

Dunham:1967:TRC

[Dun67] Charles B. Dunham. Transformed rational Chebyshev approximation. *Numerische Mathematik*, 10(2):147–152, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dunham:1968:TRC

[Dun68] Charles B. Dunham. Transformed rational Chebyshev approximation. II. *Numerische Mathematik*, 12(1):8–10, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dunn:1988:PNM

[Dun88] J. C. Dunn. A projected Newton method for minimization problems with nonlinear inequality constraints. *Numerische Mathematik*, 53(4):377–409, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Duran:1990:SRM

[Dur90] Ricardo Durán. Superconvergence for rectangular mixed finite elements. *Numerische Mathematik*, 58(3):287–298, October 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Duran:1991:ISC

[Dur91] Ricardo Durán. The inf-sup condition and error estimates for the Arnold-Falk plate bending element. *Numerische Mathematik*, 59(8):769–778, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dutt:1999:SMI

[Dut99] P. Dutt. Spectral methods for initial boundary value problems with nonsmooth data. *Numerische Mathematik*, 81(3): 323–344, January 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/9081003/90810323.htm; http://link.springer.de/link/service/journals/00211/papers/9081003/90810323.pdf`.

deVries:1973:ENM

[dV73] H. J. de Vries. On the eigenproblem for normal matrices. *Numerische Mathematik*, 21(1):37–42, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

deVilliers:1993:NSI

[dV93] J. M. de Villiers. A nodal spline interpolant for the Gregory rule of even order. *Numerische Mathematik*, 66(1):123–137, October 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dryanov:1997:QFM

[DV97] D. Dryanov and V. Vatchev. On quadrature formulae with maximal trigonometric degree of pre-

cision. *Numerische Mathematik*, 77(1):59–82, July 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7077001/70770059.htm; http://science.springer.de/nmee/bibs/7077001/70770059.htm.

Dieci:1999:COF

[DV99] Luca Dieci and Erik S. Van Vleck. Computation of orthonormal factors for fundamental solution matrices. *Numerische Mathematik*, 83 (4):599–620, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830599.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830599.pdf.

Dassie:1998:ASP

[DVZ98] Silvia Dassiè, Marco Vianello, and Renato Zanovello. Asymptotic summation of power series. *Numerische Mathematik*, 80(1):61–73, July 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8080001/80800061.htm; http://link.springer.de/link/service/journals/00211/papers/8080001/80800061.pdf; http://link.springer.de/link/service/journals/00211/papers/8080001/80800061.ps.gz.

Deutsch:1971:IDE

[DZ71] Eckart Deutsch and Christoph Zenger. Inclusion domains for the eigenvalues of stochastic matrices. *Numerische Mathematik*, 18(2):182–192, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Deutsch:1975:BGG

[DZ75] E. Deutsch and C. Zenger. On Bauer's generalized Gershgorin discs. *Numerische Mathematik*, 24(1):63–70, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dziuk:1991:AES

[Dzi91] G. Dziuk. An algorithm for evolutionary surfaces. *Numerische Mathematik*, 58(6): 603–611, January 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elfving:1988:ACC

[EA88] Tommy Elfving and Lars-Erik Andersson. An algorithm for computing constrained smoothing spline functions. *Numerische Mathematik*, 52(5): 583–595, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eberlein:1968:SEN

[EB68] P. J. Eberlein and J. Boothroyd. Solution to the eigenproblem by a norm reducing Jacobi type method. *Numerische Mathematik*, 11(1):1–12, January 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 327–338].

Eberlein:1970:SCE

[Ebe70] P. J. Eberlein. Solution to the complex eigenproblem by a norm reducing Jacobi type method. *Numerische Mathematik*, 14(3):232–245, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 404–417].

Eckhardt:1968:EEW

[Eck68] Ulrich Eckhardt. Einige Eigenschaften Wilfscher Quadraturformeln. (German) [Some eigenvalues of the Wilf quadrature formula]. *Numerische Mathematik*, 12(1):1–7, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eckmann:1976:CGG

[Eck76] J.-P. Eckmann. On the computation of the Galois group over the quotient field of $C(\lambda)$. *Numerische Mathematik*, 26(1): 27–37, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Edder:1993:ASM

[Edd93] Olivier Edder. Analysis of a simplified model of drop combustion. *Numerische Mathematik*, 65(3):273–284, July 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elliott:1989:SOS

[EFM89] C. M. Elliott, D. A. French, and F. A. Milner. A second order splitting method for the Cahn–Hilliard equation. *Numerische Mathematik*, 54(5): 575–590, February 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eisinberg:1998:VMI

[EFP98] Alfredo Eisinberg, Giuseppe Franzé, and Paolo Pugliese. Vandermonde matrices on integer nodes. *Numerische Mathematik*, 80(1):75–85, July 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080001/80800075.htm; http://link.springer.de/link/service/journals/00211/papers/8080001/80800075.pdf; http://link.springer.de/link/service/journals/00211/papers/8080001/80800075.ps.gz`.

Engl:1994:UCD

[EG94] Heinz W. Engl and Wilhelm Grever. Using the l-curve

for determining optimal regularization parameters. *Numerische Mathematik*, 69(1):25–31, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069001/40690025.htm; http://science.springer.de/nmee/bibs/4069001/40690025.htm`.

Elschner:1995:OOC

[EG95] J. Elschner and I. G. Graham. An optimal order collocation method for first kind boundary integral equations on polygons. *Numerische Mathematik*, 70(1):1–31, March 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070001/50700001.htm; http://science.springer.de/nmee/bibs/5070001/50700001.htm`.

Eggermont:1984:SRC

[Egg84] P. P. B. Eggermont. Stability and robustness of collocation methods for Abel-type integral equations. *Numerische Mathematik*, 45(3):431–445, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eggermont:1986:IAC

[Egg86] P. P. B. Eggermont. Improving the accuracy of collocation solutions of Volterra integral equations of the first kind by local interpolation. *Numerische Mathematik*, 48(3):263–279, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eggermont:1988:MAV

[Egg88] P. P. B. Eggermont. On monotone Abel–Volterra integral equations on the half line. *Numerische Mathematik*, 52(1):65–79, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eggermont:1992:QEO

[Egg92] P. P. B. Eggermont. On the quadrature error in operational quadrature methods for convolutions. *Numerische Mathematik*, 62(1):35–48, June 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eymard:1999:CFV

[EGH99] Robert Eymard, Thierry Gallouët, and Raphaèle Herbin. Convergence of finite volume schemes for semilinear convection diffusion equations. *Numerische Mathematik*, 82(1):91–116, March 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082001/90820091.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082001/90820091.pdf`.

Elman:1994:CLI

[EGS94] Howard C. Elman, Gene H. Golub, and Gerhard Starke. On the convergence of line iterative methods for cyclically reduced non-symmetrizable linear systems. *Numerische Mathematik*, 67(2):177–190, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670177.htm; http://science.springer.de/nmee/bibs/4067002/40670177.htm`.

Ehlich:1970:KMI

[EH70] H. Ehlich and W. Haussmann. Konvergenz mehrdimensionaler Interpolation. (German) [Convergence of multidimensional interpolation]. *Numerische Mathematik*, 15(2):165–174, June 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eichenauer-Herrmann:1989:RLR

[EHG89] Jürgen Eichenauer-Herrmann and Holger Grothe. A remark on long-range correlations in multiplicative congruential pseudo random number generators. *Numerische Mathematik*, 56(6):609–611, December 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elsner:1994:MCN

[EHM94] L. Elsner, C. He, and V. Mehrmann. Minimizing the condition number of a positive definite matrix by completion. *Numerische Mathematik*, 69(1):17–23, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069001/40690017.htm; http://science.springer.de/nmee/bibs/4069001/40690017.htm`.

Ehresmann:1969:ABA

[Ehr69] Dietbert Ehresmann. Zur Abschätzung des Bestapproximationsfehlers bei der Approximation differenzierbarer Funktionen durch Polynome. (German) [Toward approximation of best approximation errors for the approximation of differentiable functions by polynomials]. *Numerische Mathematik*, 13(1):94–100, March 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eiermann:1989:SMG

[Eie89] Michael Eiermann. On semiiterative methods generated by Faber polynomials. *Numerische Mathematik*, 56(2/3):139–156, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Einarsson:1971:NTI

[Ein71] Bo Einarsson. Numerical treatment of integro-differential equations with a certain maximum property. *Numerische*

Mathematik, 18(3):267–288, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eisen:1967:ESC

[Eis67a] Dennis Eisen. The equivalence of stability and convergence for finite difference schemes with singular coefficients. *Numerische Mathematik*, 10(1):20–29, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eisen:1967:NS

[Eis67b] Dennis Eisen. On the numerical solution of $u_t = u_{rr} + \frac{2}{r}u_r$. *Numerische Mathematik*, 10(5): 397–409, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Evequoz:1981:NFE

[EJ81] H. Evéquoz and Y. Jaccard. A nonconforming finite element method to compute the spectrum of an operator relative to the stability of a plasma in toroidal geometry. *Numerische Mathematik*, 36(4): 455–465, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elschner:1997:CMM

[EJSS97] J. Elschner, Y. Jeon, I. H. Sloan, and E. P. Stephan. The collocation method for mixed boundary value problems on domains with curved polygonal boundaries. *Numerische Mathematik*, 76(3): 355–381, May 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076003/70760355.htm; http://science.springer.de/nmee/bibs/7076003/70760355.htm`.

Evje:1999:VSA

[EK99] Steinar Evje and Kenneth Hvistendahl Karlsen. Viscous splitting approximation of mixed hyperbolic-parabolic convection-diffusion equations. *Numerische Mathematik*, 83(1):107–137, July 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083001/90830107.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083001/90830107.pdf`.

Elsner:1991:CPA

[EKL91] L. Elsner, I. Koltracht, and P. Lancaster. Convergence properties of ART and SOR algorithms. *Numerische Mathematik*, 59(1):91–106, April 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elsner:1992:CSA

[EKN92] L. Elsner, I. Koltracht, and M. Neumann. Convergence of sequential and asynchronous nonlinear paracontractions. *Numerische Mathematik*, 62(3):

305–319, August 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

ElTom:1979:BCF

[El 79] M. E. A. El Tom. On best cubature formulas and spline interpolation. *Numerische Mathematik*, 32(3):291–306, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

ElTarazi:1982:SCR

[El 82] Mouhamed Nabih El Tarazi. Some convergence results for asynchronous algorithms. (French) [Des résultats de convergence des algorithmes asynchrones]. *Numerische Mathematik*, 39(3): 325–340, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Curiously, the title of this paper is in English, while the body is in French!

ElTarazi:1984:AMA

[El 84] Mouhamed Nabih El Tarazi. Algorithmes mixtes asynchrones. étude de convergence monotone. (French) [Asynchronous mixed algorithms. study of monotonic convergence]. *Numerische Mathematik*, 44(3): 363–369, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Evans:1988:EGS

[EL88] D. J. Evans and C. Li. Extrapolated Gauss–Seidel 1 and SOR methods for least-squares problems. *Numerische Mathematik*, 53(4):485–498, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elbert:1991:AZB

[Elb91] Á. Elbert. An approximation for the zeros of Bessel functions. *Numerische Mathematik*, 59(7): 647–657, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elfving:1980:BIM

[Elf80] Tommy Elfving. Block-iterative methods for consistent and inconsistent linear equations. *Numerische Mathematik*, 35(1):1–12, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ellacott:1979:ACM

[Ell79] S. W. Ellacott. On the approximate conformal mapping of multiply connected domains. *Numerische Mathematik*, 33(4): 437–446, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eicke:1990:ISG

[ELP90] Bertolt Eicke, Alfred K. Louis, and Robert Plato. The instability of some gradient methods for ill-posed problems. *Numerische Mathematik*, 58(1): 129–134, September 1990. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Elbert:1992:ADL

[ELR92] Árpád Elbert, Andrea Laforgia, and Lucia G. Rodonò. Asymptotics for the nth-degree Laguerre polynomial evaluated at n. *Numerische Mathematik*, 63(2):173–182, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elsner:1969:BAM

[Els69] L. Elsner. Bemerkung zu einer Arbeit von Marshall und Olkin. (German) [Remark on a paper of Marshall and Olkin]. *Numerische Mathematik*, 13(3): 245–246, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elsner:1973:RSI

[Els73] Ludwig Elsner. A remark on simultaneous inclusions of the zeros of a polynomial by Gershgorin's theorem. *Numerische Mathematik*, 21(5):425–427, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elschner:1984:GMS

[Els84a] J. Elschner. Galerkin methods with splines for singular integral equations over (0, 1). *Numerische Mathematik*, 43(2): 265–281, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elsner:1984:NOB

[Els84b] L. Elsner. A note on optimal block-scaling of matrices. *Numerische Mathematik*, 44(1): 127–128, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elsner:1989:CWR

[Els89] Ludwig Elsner. Comparisons of weak regular splittings and multisplitting methods. *Numerische Mathematik*, 56(2/3): 283–289, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ewing:1991:LRT

[ELV91] R. E. Ewing, R. D. Lazarov, and P. S. Vassilevski. Local refinement techniques for elliptic problems on cell-centered grids. III. algebraic multilevel BEPS preconditioners. *Numerische Mathematik*, 59(5):431–452, August 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Edelman:1987:ASM

[EM87] Alan Edelman and Charles A. Micchelli. Admissible slopes for monotone and convex interpolation. *Numerische Mathematik*, 51(4):441–458, August 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elsner:1991:CBI

[EM91] Ludwig Elsner and Volker Mehrmann. Convergence of

block iterative methods for linear systems arising in the numerical solution of Euler equations. *Numerische Mathematik*, 59(6):541–559, September 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eiermann:1988:SSL

[EMN88] Michael Eiermann, Ivo Marek, and Wilhelm Niethammer. On the solution of singular linear systems of algebraic equations by semi-iterative methods. *Numerische Mathematik*, 53(3): 265–283, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Esser:1980:NDR

[EN80] Henning Esser and Klaus Niederdrenk. Nichtäquidistante Diskretisierungen von Randwertaufgaben. (German) [Nonuniform discretizations of boundary value problems in ODE]. *Numerische Mathematik*, 35(4): 465–478, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eirola:1988:WDM

[EN88] Timo Eirola and Olavi Nevanlinna. What do multistep methods approximate? *Numerische Mathematik*, 53(5):559–569, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Engels:1972:KND

[Eng72] Hermann Engels. Über Konvergenzkriterien für numerische Differentiationsverfahren. (German) [On convergence criteria for numerical differentiation procedures]. *Numerische Mathematik*, 19(3):230–237, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Engels:1977:FIQ

[Eng77] Hermann Engels. Eine Familie interpolatorischer Quadraturformeln mit ableitungsfreien Fehlerschranken. (German) [A family of quadrature formulas having error bounds without derivatives]. *Numerische Mathematik*, 28(1):49–58, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Engl:1996:MNS

[Eng96] Gabriele Engl. The modeling and numerical simulation of gas flow networks. *Numerische Mathematik*, 72(3):349–366, January 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6072003/60720349.htm; http://science.springer.de/nmee/bibs/6072003/60720349.htm`.

Ennenbach:1995:IFM

[Enn95] R. Ennenbach. The inclusion of free membrane eigenvalues.

Numerische Mathematik, 70(1): 33–44, March 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070001/50700033.htm; http://science.springer.de/nmee/bibs/5070001/50700033.htm`.

Eiermann:1990:OSO

[ENR90] Michael Eiermann, Wilhelm Niethammer, and Arden Ruttan. Optimal successive overrelaxation iterative methods for P-cyclic matrices. *Numerische Mathematik*, 57(6/7):593–606, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Eiermann:1985:SSM

[ENV85] M. Eiermann, W. Niethammer, and R. S. Varga. A study of semiiterative methods for nonsymmetric systems of linear equations. *Numerische Mathematik*, 47(4):505–533, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elman:1999:ESP

[EO99] Howard C. Elman and Dianne P. O'Leary. Eigenanalysis of some preconditioned Helmholtz problems. *Numerische Mathematik*, 83(2):231–257, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083002/90830231.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083002/90830231.pdf`.

Elliott:1975:CQR

[EP75] David Elliott and D. F. Paget. On the convergence of a quadrature rule for evaluating certain Cauchy principal value integrals. *Numerische Mathematik*, 23(4):311–319, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elliott:1976:CQR

[EP76] David Elliott and D. F. Paget. On the convergence of a quadrature rule for evaluating certain Cauchy principal value integrals: an addendum. *Numerische Mathematik*, 25(3): 287–289, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

ElDabaghi:1986:SVT

[EP86] Fadi El Dabaghi and Olivier Pironneau. Stream vectors in three-dimensional aerodynamics. *Numerische Mathematik*, 48 (5):561–589, May 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elden:1994:PAB

[EP94] Lars Eldén and Haesun Park. Perturbation analysis for block downdating of a Cholesky decomposition. *Numerische Mathematik*, 68(4):457–467, October 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4068004/40680457.htm; http://science.springer.de/nmee/bibs/4068004/40680457.htm.

Elliott:1995:AAS

[EP95] David Elliott and Siegfried Prössdorf. An algorithm for the approximate solution of integral equations of Mellin type. *Numerische Mathematik*, 70(4):427–452, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5070004/50700427.htm; http://science.springer.de/nmee/bibs/5070004/50700427.htm.

Elden:1999:PPS

[EP99] Lars Eldén and Haesun Park. A Procrustes problem on the Stiefel manifold. *Numerische Mathematik*, 82(4):599–619, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820599.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082004/90820599.pdf.

Elsner:1967:RBM

[ER67] L. Elsner and R. M. Redheffer. Remarks on band matrices. *Numerische Mathematik*, 10(2):153–161, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Erisman:1974:MST

[ER74] A. M. Erisman and J. K. Reid. Monitoring the stability of the triangular factorization of a sparse matrix. *Numerische Mathematik*, 22(3):183–186, June 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ernst:1996:FEC

[Ern96] Oliver G. Ernst. A finite-element capacitance matrix method for exterior Helmholtz problems. *Numerische Mathematik*, 75(2):175–204, December 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6075002/60750175.htm; http://science.springer.de/nmee/bibs/6075002/60750175.htm.

Esser:1973:BKH

[ES73] H. Esser and K. Scherer. Eine Bemerkungen zur Konvergenz Hermitischer Interpolationsprozesse. (German)

[Convergence of Hermite interpolation processes]. *Numerische Mathematik*, 21(3): 220–222, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ellacott:1988:CMG

[ES88] S. W. Ellacott and E. B. Saff. On Clenshaw's method and a generalisation to Faber series. *Numerische Mathematik*, 52(5): 499–509, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eggermont:1990:EBI

[ES90] P. P. B. Eggermont and J. Saranen. L^p estimates of boundary integral equations for some nonlinear boundary value problems. *Numerische Mathematik*, 58(5): 465–478, December 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ewing:1992:AMS

[ES92] John H. Ewing and Glenn Schober. The area of the Mandelbrot set. *Numerische Mathematik*, 61(1):59–72, February 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Evans:1982:MBA

[ESR82] D. J. Evans, J. Shanehchi, and C. C. Rick. A modified bisection algorithm for the determination of the eigenvalues of a symmetric tridiagonal matrix. *Numerische Mathematik*, 38(3): 417–419, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Esseen:1960:UAB

[Ess60] C. G. Esseen. Über die asymptotisch beste Approximation stetiger Funktionen mit Hilfe von Bernstein-Polynomen. (German) [On the asymptotically best approximation of continuous functions with the aid of Berstein polynomials]. *Numerische Mathematik*, 2(1):206–213, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Esser:1977:SDR

[Ess77] Henning Esser. Stabilitätsungleichung für Diskretisierungen von Randwertaufgaben gewönlicher Differentialgleichungen. (German) [Stability inequalities for discretizations of boundary value problems in ordinary differential equations]. *Numerische Mathematik*, 28(1):69–100, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eirola:1992:CIS

[ESS92] T. Eirola and J. M. Sanz-Serna. Conservation of integrals and symplectic structure in the integration of differential equations by multistep methods. *Numerische Mathematik*, 61(3): 281–290, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Elliott:1997:STE

[EV97] David Elliott and Ezio Venturino. Sigmoidal transformations and the Euler–Maclaurin expansion for evaluating certain Hadamard finite-part integrals. *Numerische Mathematik*, 77(4):453–465, October 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077004/70770453.htm; http://science.springer.de/nmee/bibs/7077004/70770453.htm`.

Eve:1964:EP

[Eve64] J. Eve. The evaluation of polynomials. *Numerische Mathematik*, 6(1):17–21, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ewing:1992:AMF

[EW92] Richard E. Ewing and JunPing Wang. Analysis of mixed finite element methods on locally refined grids. *Numerische Mathematik*, 63(2):183–194, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eydeland:1984:MSN

[Eyd84] Alexander Eydeland. A method of solving nonlinear variational problems by nonlinear transformation of the objective functional. I. *Numerische Mathematik*, 43(1):59–82, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Eydeland:1985:MSN

[Eyd85] Alexander Eydeland. A method of solving nonlinear variational problems by nonlinear transformation of the objective functional. II. *Numerische Mathematik*, 46(4):599–609, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Faermann:1998:LPE

[Fae98] Birgit Faermann. Local a-posteriori error indicators for the Galerkin discretization of boundary integral equations. *Numerische Mathematik*, 79(1): 43–76, March 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079001/80790043.htm; http://science.springer.de/nmee/bibs/8079001/80790043.htm`.

Fage:1981:IMI

[Fag81a] Dimitri M. Fagé. The indicatrix method. II. *Numerische Mathematik*, 38(2):255–261, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fage:1981:IMF

[Fag81b] Dimitri M. Fagé. The indicatrix method in free boundary problems. *Numerische Mathematik*,

38(1):39–52, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fage:1982:ATD

[Fag82] D. Fagé. Approximation of time-dependent free boundaries. *Numerische Mathematik*, 40(2): 179–199, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fassbender:1997:IUE

[Faß97] Heike Faßbender. Inverse unitary eigenproblems and related orthogonal functions. *Numerische Mathematik*, 77(3): 323–345, September 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077003/70770323.htm; http://science.springer.de/nmee/bibs/7077003/70770323.htm`.

FernandezCara:1989:CTN

[FB89] Enrique Fernández Cara and Mercedes Marín Beltrán. The convergence of two numerical schemes for the Navier–Stokes equations. *Numerische Mathematik*, 55(1):33–60, April 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fischer:1992:MHF

[FDD92] Patrick Fischer, Mireille Defranceschi, and Joseph Delhalle. Molecular Hartree–Fock equations for iteration-variation calculations in momentum space. *Numerische Mathematik*, 63(1): 67–82, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Feistauer:1987:FEA

[Fei87] Miloslav Feistauer. On the finite element approximation of a cascade flow problem. *Numerische Mathematik*, 50(6): 655–684, April 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Felsch:1961:PRG

[Fel61] H. Felsch. Programmierung der Restklassenabzählung einer Gruppe nach Untergruppen. (German) [Programming of residue classes of a group via its subgroups]. *Numerische Mathematik*, 3:250–256, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fernando:1989:LCR

[Fer89] K. Vince Fernando. Linear convergence of the row cyclic Jacobi and Kogbetliantz methods. *Numerische Mathematik*, 56(1): 73–91, September 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fernandes:1997:EOS

[Fer97] Ryan I. Fernandes. Efficient orthogonal spline collocation methods for solving lin-

ear second order hyperbolic problems on rectangles. *Numerische Mathematik*, 77(2): 223–241, August 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7077002/70770223.htm; http://science.springer.de/nmee/bibs/7077002/70770223.htm.

Fetter:1987:EEA

[Fet87] Alfredo Fetter. L^∞-error estimate for an approximation of a parabolic variational inequality. *Numerische Mathematik*, 50 (5):557–565, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Freeden:1987:NIM

[FF87] W. Freeden and J. Fleck. Numerical integration by means of adapted Euler summation formulas. *Numerische Mathematik*, 51(1):37–64, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Falcone:1994:DTH

[FF94] Marizio Falcone and Roberto Ferretti. Discrete time high-order schemes for viscosity solutions of Hamilton–Jacobi–Bellman equations. *Numerische Mathematik*, 67(3): 315–344, April 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[FF97] URL http://link.springer.de/link/service/journals/00211/bibs/4067003/40670315.htm; http://science.springer.de/nmee/bibs/4067003/40670315.htm.

Farhloul:1997:DHM

Mohamed Farhloul and Michel Fortin. Dual hybrid methods for the elasticity and the Stokes problems: a unified approach. *Numerische Mathematik*, 76(4): 419–440, June 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7076004/70760419.htm; http://science.springer.de/nmee/bibs/7076004/70760419.htm.

Feldstein:1973:NSO

[FG73] Alan Feldstein and Richard Goodman. Numerical solution of ordinary and retarded differential equations with discontinuous derivatives. *Numerische Mathematik*, 21(1):1–13, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fix:1977:PVP

[FG77] George J. Fix and Morton E. Gurtin. On patched variational principles with application to elliptic and mixed elliptic-hyperbolic problems. *Numerische Mathematik*, 28(3): 259–271, September 1977. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Floria:1989:NPS

[FG89] Luis M. Floría and Robert B. Griffiths. Numerical procedure for solving a minimization eigenvalue problem. *Numerische Mathematik*, 55(5):565–574, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fairweather:1967:SHA

[FGM67] G. Fairweather, A. R. Gourlay, and A. R. Mitchell. Some high accuracy difference with a splitting operator for equations of parabolic and elliptic type. *Numerische Mathematik*, 10(1):56–66, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frontini:1987:MPS

[FGM87] Marco Frontini, Walter Gautschi, and Gradimir V. Milovanović. Moment-preserving spline approximation on finite intervals. *Numerische Mathematik*, 50(5): 503–518, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fix:1981:MFE

[FGN81] G. J. Fix, M. D. Gunzburger, and R. A. Nicolaides. On mixed finite element methods for first-order elliptic systems. *Numerische Mathematik*, 37(1): 29–48, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Feichtinger:1995:ENM

[FGS95] Hans G. Feichtinger, Karlheinz Gröchenig, and Thomas Strohmer. Efficient numerical methods in non-uniform sampling theory. *Numerische Mathematik*, 69(4):423–440, February 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069004/50690423.htm; http://science.springer.de/nmee/bibs/5069004/50690423.htm`.

Friedrich:1987:PCT

[FH87] Volkmar Friedrich and Bernd Hofmann. A predictor-corrector technique for constrained least-squares regularization. *Numerische Mathematik*, 51(3): 353–367, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Funaro:1990:SRA

[FH90] Daniele Funaro and Wilhelm Heinrichs. Some results about the pseudospectral approximation of one-dimensional fourth-order problems. *Numerische Mathematik*, 58(4): 399–418, November 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fierro:1995:ATS

[FH95] Ricardo D. Fierro and Per Christian Hansen. Accuracy of TSVD solutions computed from rank-revealing decompositions. *Numerische Mathematik*, 70(4): 453–471, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070004/50700453.htm; http://science.springer.de/nmee/bibs/5070004/50700453.htm`.

Frank:1986:CPDa

[FHL86a] R. Frank, J. Hertling, and H. Lehner. B-convergence properties of defect correction methods. I. *Numerische Mathematik*, 49(2/3):139–162, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frank:1986:CPDb

[FHL86b] R. Frank, J. Hertling, and H. Lehner. B-convergence properties of defect correction methods. II. *Numerische Mathematik*, 49(2/3):163–188, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Franca:1988:NFS

[FHLM88] Leopoldo P. Franca, Thomas J. R. Hughes, Abimael F. D. Loula, and Isidoro Miranda. A new family of stable elements for nearly incompressible elasticity based on a mixed Petrov–Galerkin finite element formulation. *Numerische Mathematik*, 53(1/2):123–141, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fiala:1990:MIF

[Fia90] Tibor Fiala. On the monotonity of incomplete factorization. *Numerische Mathematik*, 57(5):473–479, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fiedler:1966:MI

[Fie66] Miroslav Fiedler. Matrix inequalities. *Numerische Mathematik*, 9(2):109–119, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Field:1978:EBC

[Fie78] David A. Field. Error bounds for continued fractions $K(1/b_n)$. *Numerische Mathematik*, 29(3): 261–267, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fiedler:1987:AVP

[Fie87] H. Fiedler. Das asymptotische Verhalten der Peanokerne einiger interpolatorischer Quadraturverfahren. (German) [The asymptotic behavior of the Peano kernels of some interpolatory quadrature methods]. *Numerische Mathematik*, 51(5):

571–581, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Filippi:1964:ATA

[Fil64] Siegfried Filippi. Angenäherte Tschebyscheff-Approximation einer Stammfunktion des Verfahrens von Clenshaw und Curtis. (German) [Chebyshev approximation of a primitive function of the Clenshaw–Curtis methods]. *Numerische Mathematik*, 6(1):320–328, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fisser:1961:STA

[Fis61] H. Fisser. Some tests applied to pseudo-random numbers generated by v. Hörner's rule. *Numerische Mathematik*, 3:247–249, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fischer:1981:ADL

[Fis81] Jürgen Fischer. An algorithm for discrete linear L_p approximation. *Numerische Mathematik*, 38(1):129–139, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fischer:1993:SGA

[Fis93] Thomas M. Fischer. A spectral Galerkin approximation of the Orr–Sommerfeld eigenvalue problem in a semi-infinite domain. *Numerische Mathematik*, 66(2):159–179, November 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Field:1972:PET

[FJ72] David A. Field and Willson B. Jones. *A priori* estimates for truncation error of continued fractions $K(1/b_n)$. *Numerische Mathematik*, 19(4):283–302, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fairweather:1975:EGM

[FJ75] G. Fairweather and J. P. Johnson. On the extrapolation of Galerkin methods for parabolic problems. *Numerische Mathematik*, 23(3):269–287, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fiala:1987:CDB

[FK87] Tibor Fiala and Anna Krebsz. On the convergence and divergence of Bairstow's method. *Numerische Mathematik*, 50(4): 477–482, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fair:1970:PAO

[FL70] Wyman Fair and Yudell L. Luke. Padé approximations to the operator exponential. *Numerische Mathematik*, 14(4): 379–382, March 1970. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fuhrer:1991:NSD

[FL91] C. Führer and B. J. Leimkuhler. Numerical solution of differential-algebraic equations for constrained mechanical motion. *Numerische Mathematik*, 59(1):55–69, April 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fraser:1968:AUA

[FM68] M. Fraser and N. Metropolis. Algorithms in unnormalized arithmetic. III: Matrix inversion. *Numerische Mathematik*, 12(5):416–428, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frommer:1989:PIM

[FM89] Andreas Frommer and Günter Mayer. Parallel interval multisplittings. *Numerische Mathematik*, 56(2/3):255–267, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fortin:1992:AEMa

[FM92a] M. Fortin and Z. Mghazli. Analyse d'un élément mixte pour le problème de Stokes. I. Résultats généraux. (French) [Analysis of a mixed element for the Stokes problem. I. general results]. *Numerische Mathematik*, 62(2):149–160, July 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fortin:1992:AEMb

[FM92b] M. Fortin and Z. Mghazli. Analyse d'un élément mixte pour le problème de Stokes. II. construction et estimations d'erreur. (French) [Analysis of a mixed element for the Stokes problem. II. construction and error estimates]. *Numerische Mathematik*, 62(2): 161–188, July 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fdez-Manin:1999:EEP

[FMMS99] G. Fdez-Manín and R. Muñoz-Sola. Error estimates for the patching method in the bidimensional case. *Numerische Mathematik*, 82(4):621–634, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820621.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082004/90820621.pdf`.

Felsch:1968:UPB

[FN68] V. Felsch and J. Neubüser. Über ein Programm zu Berechnung der Automorphismengruppe einer endlichen Gruppe. (German) [On a program for computation of the automorphism group of a finite group]. *Numerische Mathematik*, 11(3):

277–292, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fix:1972:FEA

[FN72] G. Fix and N. Nassif. On finite element approximations to time-dependent problems. *Numerische Mathematik*, 19(2): 127–135, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Freund:1991:QQM

[FN91] Roland W. Freund and Noël M. Nachtigal. QMR: a quasi-minimal residual method for non-Hermitian linear systems. *Numerische Mathematik*, 60(3): 315–339, December 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Feistauer:1998:FEA

[FN98] Miloslav Feistauer and Karel Najzar. Finite element approximation of a problem with a nonlinear Newton boundary condition. *Numerische Mathematik*, 78(3):403–425, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078003/70780403.htm; http://science.springer.de/nmee/bibs/7078003/70780403.htm`.

Funderlic:1982:DGD

[FNP82] R. E. Funderlic, M. Neumann, and R. J. Plemmons. *LU* decompositions of generalized diagonally dominant matrices. *Numerische Mathematik*, 40(1):57–69, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Focke:1965:UMM

[Foc65] J. Focke. Über die Multiplikativität von Matrizennormen. (German) [On the multiplicability of matrix norms]. *Numerische Mathematik*, 7(3): 251–254, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forster:1967:EFG

[För67] Peter Förster. Existenzaussagen und Fehlerabschätzungen bei gewissen nichtlinearen Randwertaufgaben mit gewöhnlichen Differentialgleichungen. (German) [Existence statement and error bounds for certain nonlinear boundary value problems with ordinary differential equations]. *Numerische Mathematik*, 10(5):410–422, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forster:1968:BIS

[For68a] Peter Forster. Bemerkungen zum Iterationsverfahren von Schulz zur Bestimmung der Inversen einer Matrix. (German) [Remarks on Schulz's iterative method for computing the inverse of a matrix]. *Numerische Mathematik*, 12(3):211–214, October 1968. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Forsythe:1968:ADD

[For68b] George E. Forsythe. On the asymptotic directions of the s-dimensional optimum gradient method. *Numerische Mathematik*, 11(1):57–76, January 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forster:1972:DGF

[For72] Peter Forster. Die diskrete Greensche Funktion und Fehlerabschätzungen zum Galerkin-Verfahren. (German) [Discrete variational Green's function and error bounds for Galerkin approximations]. *Numerische Mathematik*, 19(5):407–418, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forst:1975:OIQ

[For75] Wilhelm Forst. Zur Optimalität interpolatorischer Quadraturformeln periodischer Funktionen. (German) [Optimal formulas of interpolatory type for the quadrature of periodic functions]. *Numerische Mathematik*, 25(1):15–21, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forst:1978:IID

[For78] Wilhelm Forst. Zur Interpolation und Integration differenzierbarer periodischer Funktionaleng. (German) [On interpolation and integration of differentiable periodic functions]. *Numerische Mathematik*, 30(2): 137–147, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forster:1982:BOT

[För82] Klaus-Jürgen Förster. Bemerkungen zur optimalen Tschebyscheff-Typ Quadratur. (German) [Remarks on optimal Chebyshev-type quadratures]. *Numerische Mathematik*, 38(3):421–425, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fortin:1985:TDQ

[For85] M. Fortin. A three-dimensional quadratic nonconforming element. *Numerische Mathematik*, 46(2):269–279, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forster:1993:ECM

[För93] Klaus-Jürgen Förster. Exit criteria and monotonicity in compound quadrature of Gaussian type. *Numerische Mathematik*, 66(3):321–327, December 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fossmeier:1989:REF

[Föß89] Reinhard Fößmeier. On Richardson extrapolation for finite difference methods on regular grids. *Numerische Mathe-*

matik, 55(4):451–462, July 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fiedler:1966:SGP

[FP66] Miroslav Fiedler and Vlastimil Pták. Some generalizations of positive definiteness and monotonicity. *Numerische Mathematik*, 9(2):163–172, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Forster:1990:PPH

[FP90] Klaus-Jürgen Förster and Knut Petras. On a problem proposed by H. Braß concerning the remainder term in quadrature for convex functions. *Numerische Mathematik*, 57(8):763–777, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ferrandiz:1993:FMM

[FP93] José M. Ferrándiz and M. Teresa Pérez. A family of multistep methods to integrate orbits on spheres. *Numerische Mathematik*, 65(3):285–300, July 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fernando:1994:ASV

[FP94] K. Vince Fernando and Beresford N. Parlett. Accurate singular values and differential *qd* algorithms. *Numerische Mathematik*, 67(2): 191–229, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670191.htm; http://science.springer.de/nmee/bibs/4067002/40670191.htm`.

Floater:1999:PLP

[FQ99] Michael S. Floater and Ewald G. Quak. Piecewise linear prewavelets on arbitrary triangulations. *Numerische Mathematik*, 82(2):221–252, April 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082002/90820221.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082002/90820221.pdf`.

Fink:1984:SMS

[FR84] James P. Fink and Werner C. Rheinboldt. Solution manifolds and submanifolds of parametrized equations and their discretization errors. *Numerische Mathematik*, 45(3): 323–343, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Freund:1986:CCA

[FR86] Roland Freund and Stephan Ruscheweyh. On a class of Chebyshev approximation problems which arise in connection with a conjugate gradient type

method. *Numerische Mathematik*, 48(5):525–542, May 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Fischer:1988:SRI

[FR88] Bernd Fischer and Lothar Reichel. A stable Richardson iteration method for complex linear systems. *Numerische Mathematik*, 54(2):225–242, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frank:1962:CFEa

[Fra62a] E. Frank. On continued fraction expansions for binomial quadratic surds. *Numerische Mathematik*, 4:85–95, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frank:1962:CFEb

[Fra62b] Evelyn Frank. On continued fraction expansion for binomial quadratic surds. II. *Numerische Mathematik*, 4:303–309, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frank:1963:CEB

[Fra63] Evelyn Frank. On continued expansions for binomial quadratic surds. III. *Numerische Mathematik*, 5(1):113–117, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frank:1976:MID

[Fra76] Reinhard Frank. The method of iterated defect-correction and its application to two-point boundary value problems. I. *Numerische Mathematik*, 25(4): 409–419, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frank:1977:MID

[Fra77] R. Frank. The method of iterated defect-correction and its application to two-point boundary value problems. II. *Numerische Mathematik*, 27(4): 407–420, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Freud:1960:NK

[Fre60] G. Freud. Nachtrag bei der Korrektur. (German) [Supplement with correction]. *Numerische Mathematik*, 2(1): 150, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=2&issue=1&spage=150`.

Freund:1990:CGT

[Fre90] Roland Freund. On conjugate gradient type methods and polynominal preconditioners for a class of complex non-Hermitian matrices. *Numerische Mathematik*, 57(3):285–312, May 1990.

CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Freund:1994:LAB

[Fre94] Roland W. Freund. A look-ahead Bareiss algorithm for general Toeplitz matrices. *Numerische Mathematik*, 68(1): 35–69, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068001/40680035.htm; http://science.springer.de/nmee/bibs/4068001/40680035.htm`.

Fritsch:1970:NNS

[Fri70] F. N. Fritsch. On the number of nodes in self-contained integration formulas of degree two for compact planar regions. *Numerische Mathematik*, 16(3): 224–230, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frommer:1988:CBN

[Fro88a] Andreas Frommer. Comparison of Brown's and Newton's method in the monotone case. *Numerische Mathematik*, 52(5): 511–521, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frommer:1988:UAM

[Fro88b] Andreas Frommer. A unified approach to methods for the simultaneous computation of all zeros of generalized polynomials. *Numerische Mathematik*, 54(1): 105–116, October 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frommer:1989:PNM

[Fro89] Andreas Frommer. Parallel nonlinear multisplitting methods. *Numerische Mathematik*, 56(2/3):269–282, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ferreira:1970:ZMH

[FS70] Erasmo M. Ferreira and Javier Sesma. Zeros of the modified Hankel function. *Numerische Mathematik*, 16(3): 278–284, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frommer:1992:STS

[FS92] Andreas Frommer and Daniel B. Szyld. H-splittings and two-stage iterative methods. *Numerische Mathematik*, 63(3): 345–356, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Frommer:1994:ATS

[FS94] Andreas Frommer and Daniel B. Szyld. Asynchronous two-stage iterative methods. *Numerische Mathematik*, 69(2):141–153, December 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

URL http://link.springer.de/link/service/journals/00211/bibs/4069002/40690141.htm; http://science.springer.de/nmee/bibs/4069002/40690141.htm.

Frommer:1999:WMN

[FS99] Andreas Frommer and Daniel B. Szyld. Weighted max norms, splittings, and overlapping additive Schwarz iterations. *Numerische Mathematik*, 83 (2):259–278, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083002/90830259.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083002/90830259.pdf.

Funaro:1988:DDM

[Fun88] Daniele Funaro. Domain decomposition methods for pseudo spectral approximations. I. second order equations in one dimension. *Numerische Mathematik*, 52(3):329–344, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Freund:1994:CEP

[FV94] Roland W. Freund and Richard S. Varga. Congratulations [to editor Professor Josef Stoer on the occasion of his seventieth birthday, June 21, 1994]. *Numerische Mathematik*, 68(1):1, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Xu:1996:SAA

[fX96] Shu fang Xu. Sensitivity analysis of the algebraic Riccati equations. *Numerische Mathematik*, 75(1):121–134, November 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6075001/60750121.htm; http://science.springer.de/nmee/bibs/6075001/60750121.htm.

Feistauer:1987:FES

[FŽ87] Miloslav Feistauer and Alexander Ženíšek. Finite element solution of nonlinear elliptic problems. *Numerische Mathematik*, 50(4):451–475, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Feistauer:1988:CMF

[FŽ88] Miloslav Feistauer and Alexander Ženíšek. Compactness method in the finite element theory of nonlinear elliptic problems. *Numerische Mathematik*, 52(2):147–163, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Freund:1993:LAA

[FZ93] Roland W. Freund and Hong Yuan Zha. A look-ahead algorithm

for the solution of general Hankel systems. *Numerische Mathematik*, 64(3):295–321, March 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gaviano:1987:LSC

[GA87] M. Gaviano and J. Abaffy. Line search by curve fitting in minimization algorithms. *Numerische Mathematik*, 50(3): 321–335, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Garcia-Archilla:1992:SSK

[GA92] Bosco García-Archilla. A supraconvergent scheme for the Korteweg–de Vries equation. *Numerische Mathematik*, 61(3): 291–310, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gabutti:1984:TMA

[Gab84] Bruno Gabutti. On two methods for accelerating convergence of series. *Numerische Mathematik*, 43(3):439–461, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gaier:1970:SSA

[Gai70] Dieter Gaier. Saturation bei Spline-Approximation und Quadratur. (German) [Saturation in spline approximation and quadrature]. *Numerische Mathematik*, 16(2):129–140, November 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gaier:1972:EKM

[Gai72] Dieter Gaier. Ermittlung des konformen Moduls von Vierecken mit Differenzenmethoden. (German) [Determination of the conformal modules of quadrilaterals by difference methods]. *Numerische Mathematik*, 19(2):179–194, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gal:1989:CMC

[Gal89] S. G. Gal. A construction of monotonically convergent sequences from successive approximations in certain Banach spaces. *Numerische Mathematik*, 56(1):67–71, September 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gander:1981:LSQ

[Gan81] Walter Gander. Least squares with a quadratic constraint. *Numerische Mathematik*, 36(3): 291–307, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gao:1989:PTE

[Gao89] Feng Gao. A probabilistic theory for error estimation in automatic integration. *Numerische Mathematik*, 56(4):309–329, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Garsia:1965:SBB

[Gar65] Adriano M. Garsia. Some bounds on best uniform linear approximation. *Numerische Mathematik*, 7(3):197–205, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gargantini:1976:PLI

[Gar76] Irene Gargantini. Parallel Laguerre iterations: the complex case. *Numerische Mathematik*, 26(3):317–323, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Garay:1996:SSO

[Gar96] Barnabas M. Garay. On structural stability of ordinary differential equations with respect to discretization methods. *Numerische Mathematik*, 72(4):449–479, February 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6072004/60720449.htm; http://science.springer.de/nmee/bibs/6072004/60720449.htm`.

Gastinel:1963:DNG

[Gas63] N. Gastinel. Sur-decomposition de normes générales et procédés iteratifs. (French) [Super decomposition of generalized norms and iterative procedures]. *Numerische Mathematik*, 5(1):142–151, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gastinel:1965:PCE

[Gas65] N. Gastinel. Propriétés de certains ensembles normes de matrices. (French) [Properties of certain matrix norm ensembles]. *Numerische Mathematik*, 7(3): 255–260, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gastinel:1971:CPM

[Gas71a] N. Gastinel. Sur le calcul des produits de matrices. (French) [Calculation of the product of matrices]. *Numerische Mathematik*, 17(3):222–229, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gastinel:1971:ENA

[Gas71b] N. Gastinel. Sur l'extension de normes sur des algèbres de matrices. (French) [On the extension of norms on matrix algebras]. *Numerische Mathematik*, 17(1):71–83, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gastaldi:1996:MFE

[Gas96] Lucia Gastaldi. Mixed finite element methods in fluid structure systems. *Numerische Mathematik*, 74(2):153–176, August 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/`

journals/00211/bibs/6074002/60740153.htm; http://science.springer.de/nmee/bibs/6074002/60740153.htm.

Gautschi:1961:NIO

[Gau61] Walter Gautschi. Numerical integration of ordinary differential equations based on trigonometric polynomials. *Numerische Mathematik*, 3(1):381–397, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=381.

Gautschi:1962:IVC

[Gau62] Walter Gautschi. On inverses of Vandermonde and confluent Vandermonde matrices. *Numerische Mathematik*, 4:117–123, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1963:IVC

[Gau63] Walter Gautschi. On inverses of Vandermonde and confluent Vandermonde matrices. II. *Numerische Mathematik*, 5(1):425–430, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1972:AFP

[Gau72] Walter Gautschi. Attenuation factors in practical Fourier analysis. *Numerische Mathematik*, 18(5):373–400, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1973:CAE

[Gau73] Walter Gautschi. On the condition of algebraic equations. *Numerische Mathematik*, 21(5):405–424, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1975:NEI

[Gau75a] Walter Gautschi. Norm estimates for inverses of Vandermonde matrices. *Numerische Mathematik*, 23(4):337–347, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1975:OCV

[Gau75b] Walter Gautschi. Optimally conditioned Vandermonde matrices. *Numerische Mathematik*, 24(1):1–12, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1978:IVC

[Gau78] Walter Gautschi. On inverses of Vandermonde and confluent Vandermonde matrices. III. *Numerische Mathematik*, 29(4):445–450, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1984:DAS

[Gau84] Walter Gautschi. Discrete approximations to spherically

symmetric distributions. *Numerische Mathematik*, 44(1): 53–60, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1986:SOP

[Gau86] Walter Gautschi. On the sensitivity of orthogonal polynomials to perturbations in the moments. *Numerische Mathematik*, 48(4):369–382, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gotze:1971:RSG

[GB71] H. Götze and F. L. Bauer. Robert Sauer, geb. 16.9.1898 – gest. 22.8.1970. (German) Robert Sauer, born 16.9.1898 – died 22.8.1970. *Numerische Mathematik*, 16(4):i–ii, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gotze:1981:KSG

[GB81] H. Götze and F. L. Bauer. Klaus Samelson: geb. 21.12.1918, gest. 25.5.1980 (German) [Klaus Samelson: born 21.12.1981, died 25.5.1980]. *Numerische Mathematik*, 36(2):109, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gui:1986:VFEa

[GB86a] W. Gui and I. Babuška. The h, p and $h - p$ versions of the finite element method for one-dimensional problems. Part I: The error analysis of the p-version. *Numerische Mathematik*, 49(6):577–612, November 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gui:1986:VFEb

[GB86b] W. Gui and I. Babuška. The h, p and $h - p$ versions of the finite element method for one-dimensional problems. Part II: The error analysis of the h and p versions. *Numerische Mathematik*, 49(6):613–657, November 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gui:1986:VFEc

[GB86c] W. Gui and I. Babuška. The h, p and $h - p$ versions of the finite element method for one-dimensional problems. Part III: The adaptive $h - p$ version. *Numerische Mathematik*, 49(6): 659–683, November 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guo:1996:PVF

[GC96] Benqi Guo and Weiming Cao. A preconditioner for the h-p version of the finite element method in two dimensions. *Numerische Mathematik*, 75(1):59–77, November 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6075001/60750059.`

htm; http://science.springer.de/nmee/bibs/6075001/60750059.htm.

Gekeler:1972:MIL

[Gek72] Eckart Gekeler. Über mehrstufige Iterationsverfahren und die Lösung der Hammersteinschen Gleichung. (German) [On several stage iterative methods and the solution of the Hammerstein equations]. *Numerische Mathematik*, 19(4):351–360, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gekeler:1974:CND

[Gek74] E. Gekeler. On the convergence of the von Neumann difference approximation to hyperbolic initial boundary value problems. *Numerische Mathematik*, 23(2): 167–174, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gekeler:1978:AEE

[Gek78] E. Gekeler. A-priori error estimates of Galerkin backward differentiation methods in time-inhomogeneous parabolic problems. *Numerische Mathematik*, 30(4):369–383, December 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gekeler:1982:SBD

[Gek82] Eckart Gekeler. On the stability of backward differentiation methods. *Numerische Mathematik*, 38(3):467–471, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greig:1980:ISN

[GeN80a] D. M. Greig and M. A. Abd el Naby. Iterative solutions of nonlinear initial value differential equations in Chebyshev series using Lie series. *Numerische Mathematik*, 34(1):1–13, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greig:1980:SMS

[GeN80b] D. M. Greig and M. A. Abd el Naby. A series method for solving nonlinear two-point boundary value problems. *Numerische Mathematik*, 34(2): 87–98, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Georg:1979:CII

[Geo79] Kurt Georg. On the convergence of an inverse iteration method for nonlinear elliptic eigenvalue problems. *Numerische Mathematik*, 32(1):69–74, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Geurts:1982:CTC

[Geu82] A. J. Geurts. A contribution to the theory of condition. *Numerische Mathematik*, 39(1):85–96, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Goodman:1973:RER

[GF73] Richard Goodman and Alan Feldstein. Round-off error for retarded ordinary differential equations: a priori bounds and estimates. *Numerische Mathematik*, 21(5):355–372, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Good:1971:CMN

[GG71] I. J. Good and R. A. Gaskins. The centroid method of numerical integration. *Numerische Mathematik*, 16(4): 343–359, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gout:1986:FQN

[GG86] J. L. Gout and A. Guessab. Sur les formules de quadrature numérique à nombre minimal de nœuds d'intégration. (French) [Cubature formulas with a minimal number of knots]. *Numerische Mathematik*, 49(4): 439–455, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gerlach:1987:RPI

[GG87] Juergen Gerlach and Ronald Guenther. Remarks on parameter identification. II. convergence of the algorithm. *Numerische Mathematik*, 51(1): 3–9, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1990:MMI

[GG90] Gene H. Golub and Martin H. Gutknecht. Modified moments for indefinite weight functions. *Numerische Mathematik*, 57 (6/7):607–624, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Gragg:1966:TK

[GH66] W. B. Gragg and A. S. Householder. On a theorem of König. *Numerische Mathematik*, 8(5): 465–468, August 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gargantini:1972:CAD

[GH72] Irene Gargantini and Peter Henrici. Circular arithmetic and the determination of polynomial zeros. *Numerische Mathematik*, 18(4):305–320, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gordon:1973:TEM

[GH73] William J. Gordon and Charles A. Hall. Transfinite element methods: blending-function interpolation over arbitrary curved element domains. *Numerische Mathematik*, 21(2):109–129, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gragg:1984:NSR

[GH84] William B. Gragg and William J. Harrod. The numerically stable reconstruction of Jacobi matrices from spectral data. *Numerische Mathematik*, 44(3): 317–335, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gatica:1992:CBF

[GH92] Gabriel N. Gatica and George C. Hsiao. On the coupled BEM and FEM for a nonlinear exterior Dirichlet problem in $\mathbf{r}^2$. *Numerische Mathematik*, 61(2): 171–214, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gutknecht:1995:LAL

[GH95] Martin H. Gutknecht and Marlis Hochbruck. Look-ahead Levinson and Schur algorithms for non-Hermitian Toeplitz systems. *Numerische Mathematik*, 70(2):181–227, April 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070002/50700181.htm; http://science.springer.de/nmee/bibs/5070002/50700181.htm`.

Guglielmi:1999:OSS

[GH99] Nicola Guglielmi and Ernst Hairer. Order stars and stability for delay differential equations. *Numerische Mathematik*, 83(3):371–383, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830371.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830371.pdf`.

Ghizzetti:1968:PCQ

[Ghi68] Aldo Ghizzetti. Procedure for constructing quadrature formulae on infinite intervals. *Numerische Mathematik*, 12(2): 111–119, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guenther:1985:RPI

[GHMG85] Ronald Guenther, Robert Hudspeth, William McDougal, and Jürgen Gerlach. Remarks on parameter identification. I. *Numerische Mathematik*, 47(3): 355–361, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greenspan:1965:VSN

[GHR65] H. Greenspan, W. Hafner, and M. Ribaric. On varying stepsize in numerical integration of first order differential equations. *Numerische Mathematik*, 7(4): 286–291, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gunzburger:1997:AAO

[GHR97] Max D. Gunzburger, L. Steven Hou, and S. S. Ravindran. Analysis and approximation of optimal control problems for a simplified Ginzburg–Landau model of superconductivity. *Numerische Mathematik*, 77(2): 243–268, August 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077002/70770243.htm; http://science.springer.de/nmee/bibs/7077002/70770243.htm`.

Goodman:1994:SUF

[GHT94] Jonathan Goodman, Thomas Hou, and Eitan Tadmor. On the stability of the unsmoothed Fourier method for hyperbolic equations. *Numerische Mathematik*, 67(1):93–129, February 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067001/40670093.htm; http://science.springer.de/nmee/bibs/4067001/40670093.htm`.

Gautschi:1988:LBC

[GI88] Walter Gautschi and Gabriele Inglese. Lower bounds for the condition number of Vandermonde matrices. *Numerische Mathematik*, 52(3): 241–250, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grossmann:1999:PSR

[GI99] C. Grossmann and A. Ismail. Parameter selection rules for path-following with singular embedding. *Numerische Mathematik*, 82(4):647–675, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820647.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082004/90820647.pdf`.

Ginsburg:1963:CGM

[Gin63] Theo Ginsburg. The conjugate gradient method. *Numerische Mathematik*, 5(1):191–200, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Girault:1976:CFE

[Gir76] V. Girault. A combined finite element and Marker and Cell method for solving Navier–Stokes equations. *Numerische Mathematik*, 26(1): 39–59, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Girard:1989:FMC

[Gir89] Didier A. Girard. A fast "Monte Carlo cross-validation" procedure for large least squares problems with noisy data. *Numerische Mathematik*, 56(1):1–

23, September 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guillot:1989:AFD

[GJ89] J. C. Guillot and P. Joly. Approximation by finite differences of the propagation of acoustic waves in stratified media. *Numerische Mathematik*, 54(6): 655–702, March 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Goldstein:1964:MPM

[GK64] A. A. Goldstein and R. B. Kripke. Mathematical programming by minimizing differentiable functions. *Numerische Mathematik*, 6(1):47–48, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gorenflo:1966:SAT

[GK66] Rudolf Gorenflo and Yehudith Kovetz. Solution of an Abel-type integral equation in the presence of noise by quadratic programming. *Numerische Mathematik*, 8(4):392–406, June 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guderley:1972:BTC

[GK72] K. G. Guderley and C. L. Keller. A basic theorem in the computation of ellipsoidal error bounds. *Numerische Mathematik*, 19(3): 218–229, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Glashoff:1980:VDP

[GK80] K. Glashoff and H. Kreth. Vorzeichenstabile Differenzenverfahren für parabolische Anfangsrandwertaufgaben. (German) [Sign-stability in difference schemes for parabolic initial-boundary value problems]. *Numerische Mathematik*, 35(3):343–354, October 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1983:CGQ

[GK83] G. H. Golub and J. Kautský. Calculation of Gauss quadratures with multiple free and fixed knots. *Numerische Mathematik*, 41(2):147–163, June 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gohberg:1985:NSI

[GK85] I. Gohberg and I. Koltracht. Numerical solution of integral equations, fast algorithms and Kreĭn-Sobolev equation. *Numerische Mathematik*, 47(2): 237–288, September 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Garus:1990:CSP

[GK90] Rainer Garus and Tassilo Küpper. Computation of the smallest positive eigenvalue of a quadratic λ-matrix. *Numerische Mathematik*, 57(4): 393–403, June 1990. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Girao:1994:CCA

[GK94] Pedro Martins Girão and Robert V. Kohn. Convergence of a crystalline algorithm for the heat equation in one dimension and for the motion of a graph by weighted curvature. *Numerische Mathematik*, 67(1): 41–70, February 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067001/40670041.htm; http://science.springer.de/nmee/bibs/4067001/40670041.htm`.

Grossmann:1986:GED

[GKR86] C. Großmann, M. Krätzschmar, and H.-G. Roos. Gleichmäßig einschließende Diskretisierungsverfahren für schwach nichtlineare Randwertaufgaben. (German) [Uniformly enclosing discretization methods for weakly nonlinear boundary value problems]. *Numerische Mathematik*, 49(1): 95–110, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gerhards:1965:VBV

[GL65] L. Gerhards and W. Lindenberg. Ein Verfahren zur Berechnung des vollständigen Untergruppenverbandes endlicher Gruppen auf Dualmaschinen. (German) [A method for calculation of the complete collection of subgroups of finite groups from dual machines]. *Numerische Mathematik*, 7(1):1–10, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gabutti:1986:SGE

[GL86] Bruno Gabutti and J. N. Lyness. Some generalizations of the Euler-Knopp transformation. *Numerische Mathematik*, 48(2):199–220, February 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gabutti:1987:NPT

[GL87] Bruno Gabutti and Paolo Lepora. The numerical performance of Tricomi's formula for inverting the Laplace transform. *Numerische Mathematik*, 51(3): 369–380, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Goodman:1999:CNC

[GL99] T. N. T. Goodman and S. L. Lee. Convergence of nonstationary cascade algorithms. *Numerische Mathematik*, 84(1):1–33, November 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084001/90840001.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084001/90840001.pdf`.

Greenbaum:1989:CLS

[GLC89] Anne Greenbaum, Congming Li, and Han Zheng Chao. Comparison of linear system solvers applied to diffusion-type finite element equations. *Numerische Mathematik*, 56(6): 529–546, December 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grippo:1991:CNS

[GLL91] L. Grippo, F. Lampariello, and S. Lucidi. A class of nonmonotone stabilization methods in unconstrained optimization. *Numerische Mathematik*, 59(8): 779–805, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gilliam:1989:DSI

[GLM89] David S. Gilliam, John R. Lund, and Clyde F. Martin. A discrete sampling inversion scheme for the heat equation. *Numerische Mathematik*, 54(5): 493–506, February 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gilliam:1991:IPP

[GLM91] D. S. Gilliam, J. R. Lund, and C. F. Martin. Inverse parabolic problems and discrete orthogonality. *Numerische Mathematik*, 59(4):361–383, July 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Giunta:1988:MWM

[GLR88] G. Giunta, G. Laccetti, and M. R. Rizzardi. More on the Weeks method for the numerical inversion of the Laplace transform. *Numerische Mathematik*, 54(2):193–200, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gourlay:1966:ADM

[GM66a] A. R. Gourlay and A. R. Mitchell. Alternating direction methods for hyperbolic systems. *Numerische Mathematik*, 8(2): 137–149, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gourlay:1966:SID

[GM66b] A. R. Gourlay and A. R. Mitchell. A stable implicit difference method for hyperbolic systems in two space variables. *Numerische Mathematik*, 8(4): 367–375, June 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gourlay:1968:HAD

[GM68] A. R. Gourlay and A. R. Mitchell. High accuracy A.D.I. methods for parabolic equations with variable coefficients. *Numerische Mathematik*, 12(3): 180–185, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1977:OCQ

[GM77] Walter Gautschi and Giovanni Monegato. On optimal Chebyshev-type quadratures. *Numerische Mathematik*, 28(1):59–67, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gasca:1982:LHI

[GM82] M. Gasca and J. I. Maeztu. On Lagrange and Hermite interpolation in $\mathbf{r}^k$. *Numerische Mathematik*, 39(1):1–14, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Graves-Morris:1983:VVR

[GM83] P. R. Graves-Morris. Vector valued rational interpolants. I. *Numerische Mathematik*, 42(3): 331–348, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gautschi:1986:SAS

[GM86] Walter Gautschi and Gradimir V. Milovanović. Spline approximations to spherically symmetric distributions. *Numerische Mathematik*, 49(2/3): 111–121, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Graves-Morris:1992:EMV

[GM92] P. R. Graves-Morris. Extrapolation methods for vector sequences. *Numerische Mathematik*, 61(4):475–487, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guillaume:1994:CHO

[GM94] Ph. Guillaume and M. Masmoudi. Computation of high order derivatives in optimal shape design. *Numerische Mathematik*, 67(2): 231–250, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670231.htm; http://science.springer.de/nmee/bibs/4067002/40670231.htm`.

GmeligMeyling:1987:ACS

[Gme87] R. H. J. Gmelig Meyling. Approximation by cubic C^1-splines on arbitrary triangulations. *Numerische Mathematik*, 51(1): 65–85, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gonzalez:1999:NFR

[GMF99] Ana B. González, Pablo Martín, and José M. Farto. A new family of Runge–Kutta type methods for the numerical integration of perturbed oscillators. *Numerische Mathematik*, 82(4):635–646, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820635.htm; http:`

//link.springer-ny.com/link/service/journals/00211/papers/9082004/90820635.pdf.

Graves-Morris:1981:RRI

[GMH81] P. R. Graves-Morris and T. R. Hopkins. Reliable rational interpolation. *Numerische Mathematik*, 36(2):111–128, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ghaddar:1995:APD

[GMP95] Chahid Ghaddar, Yvon Maday, and Anthony T. Patera. Analysis of a part design procedure. *Numerische Mathematik*, 71(4):465–510, October 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5071004/50710465.htm; http://science.springer.de/nmee/bibs/5071004/50710465.htm.

Giunta:1995:ABT

[GMS95] G. Giunta, A. Murli, and G. Schmid. An analysis of bilinear transform polynomial methods of inversion of Laplace transforms. *Numerische Mathematik*, 69(3):269–282, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5069003/50690269.htm; http://science.springer.de/nmee/bibs/5069003/50690269.htm.

Guderley:1966:RTP

[GN66] Karl G. Guderley and Paul J. Nikolai. Reduction of two-point boundary value problems in a vector space to initial value problems by projection. *Numerische Mathematik*, 8(3): 270–289, May 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gastaldi:1987:OEE

[GN87] Lucia Gastaldi and Ricardo Nochetto. Optimal L^∞-error estimates for nonconforming and mixed finite element methods of lowest order. *Numerische Mathematik*, 50(5):587–611, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Graf:1989:BOA

[GNP89] Siegfried Graf, Erich Novak, and Anargyros Papageorgiou. Bisection is not optimal on the average. *Numerische Mathematik*, 55(4):481–491, July 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gutknecht:1986:SIM

[GNV86] M. H. Gutknecht, W. Niethammer, and R. S. Varga. k-step iterative methods for solving nonlinear systems of equations. *Numerische Mathematik*, 48(6):699–712, June 1986. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Golub:1988:CIC

[GO88] Gene H. Golub and Michael L. Overton. The convergence of inexact Chebyshev and Richardson iterative methods for solving linear systems. *Numerische Mathematik*, 53(5):571–593, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gohberg:1994:FIC

[GO94a] I. Gohberg and V. Olshevsky. Fast inversion of Chebyshev–Vandermonde matrices. *Numerische Mathematik*, 67(1):71–92, February 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067001/40670071.htm; http://science.springer.de/nmee/bibs/4067001/40670071.htm`.

Griebel:1994:ASP

[GO94b] M. Griebel and P. Oswald. On additive Schwarz preconditioners for sparse grid discretizations. *Numerische Mathematik*, 66(4):449–463, January 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Griebel:1995:ATA

[GO95] M. Griebel and P. Oswald. On the abstract theory of additive and multiplicative Schwarz algorithms. *Numerische Mathematik*, 70(2):163–180, April 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070002/50700163.htm; http://science.springer.de/nmee/bibs/5070002/50700163.htm`.

Goel:1968:CBF

[Goë68] J.-J. Goël. Construction of basic functions for numerical utilisation of Ritz's method. *Numerische Mathematik*, 12(5):435–447, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Goldstein:1962:CMM

[Gol62] A. A. Goldstein. Cauchy's method of minimization. *Numerische Mathematik*, 4:146–150, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Goldstein:1963:SRA

[Gol63] A. A. Goldstein. On the stability of rational approximation. *Numerische Mathematik*, 5(1):431–438, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=5&issue=1&spage=431`.

Goldstein:1965:NM

[Gol65a] A. A. Goldstein. On Newton's method. *Numerische Mathematik*, 7(5):391–393, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1965:NMS

[Gol65b] G. H. Golub. Numerical methods for solving linear least squares problems. *Numerische Mathematik*, 7(3):206–216, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Goldstein:1981:FEM

[Gol81] C. I. Goldstein. The finite element method with nonuniform mesh sizes applied to the exterior Helmholtz problem. *Numerische Mathematik*, 38(1):61–82, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gorenflo:1970:NSD

[Gor70] Rudolf Gorenflo. Nichtnegativitäts-und substanzerhaltende Differenzenschemata für lineare Diffusionsgleichungen. (German) [Nonnegativity and substance-receiving difference patterns for linear diffusion equations]. *Numerische Mathematik*, 14(5):448–467, April 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=14&issue=5&spage=448`.

Griebel:1999:SGB

[GOS99] M. Griebel, P. Oswald, and T. Schiekofer. Sparse grids for boundary integral equations. *Numerische Mathematik*, 83(2):279–312, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083002/90830279.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083002/90830279.pdf`.

Gout:1977:EEI

[Gou77] J. L. Gout. Estimation de l'erreur d'interpolation d'Hermite dans $\mathbf{R}^n$. (French) [Estimation of the Hermite interpolation error in $\mathbf{R}^n$]. *Numerische Mathematik*, 28(4):407–429, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Govaerts:1990:BAL

[Gov90] W. Govaerts. Bordered augmented linear systems in numerical continuation and bifurcation. *Numerische Mathematik*, 58(4):353–368, November 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greenspan:1965:MNE

[GP65] Donald Greenspan and Seymour V. Parter. Mildly nonlinear elliptic partial differential

equations and their numerical solution. II. *Numerische Mathematik*, 7(2):129–146, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Goldstein:1967:EAM

[GP67] A. A. Goldstein and J. F. Price. An effective algorithm for minimization. *Numerische Mathematik*, 10(3):184–189, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Galimberti:1971:SCV

[GP71] G. Galimberti and V. Pereyra. Solving confluent Vandermonde systems of Hermite type. *Numerische Mathematik*, 18(1):44–60, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Graves:1978:NIF

[GP78] Jack Graves and P. M. Prenter. Numerical iterative filters applied to first kind Fredholm integral equations. *Numerische Mathematik*, 30(3):281–299, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Glowinski:1979:MFE

[GP79] R. Glowinski and O. Pironneau. On a mixed finite element approximation of the Stokes problem. I. convergence of the approximate solutions. *Numerische Mathematik*, 33(4): 397–424, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gunzburger:1983:CFE

[GP83] Max D. Gunzburger and Janet S. Peterson. On conforming finite element methods for the inhomogeneous stationary Navier–Stokes equations. *Numerische Mathematik*, 42(2): 173–194, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gorlich:1985:AWP

[GP85] E. Görlich and D. Pontzen. Alpha well-posedness, alpha stability, and the matrix theorems of H.-O. Kreiss. *Numerische Mathematik*, 46(1): 131–146, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guermond:1998:AUN

[GQ98] J.-L. Guermond and L. Quartapelle. On the approximation of the unsteady Navier–Stokes equations by finite element projection methods. *Numerische Mathematik*, 80(2): 207–238, August 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080002/80800207.htm; http://link.springer.de/link/service/journals/00211/papers/8080002/80800207.`

pdf; http://link.springer.de/link/service/journals/00211/papers/8080002/80800207.ps.gz.

Golub:1970:SVD

[GR70a] G. H. Golub and C. Reinsch. Singular value decomposition and least squares solutions. *Numerische Mathematik*, 14(5):403–420, April 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 134–151].

Guenther:1970:NCF

[GR70b] R. B. Guenther and E. L. Roetman. Newton–Cotes formulae in n-dimensions. *Numerische Mathematik*, 14(4): 330–345, March 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Girault:1979:AMF

[GR79] V. Girault and P. A. Raviart. An analysis of a mixed finite element method for the Navier–Stokes equations. *Numerische Mathematik*, 33(3): 235–271, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Griewank:1986:AGT

[GR86] A. Griewank and G. W. Reddien. The approximation of generalized turning points by projection methods with superconvergence to the critical parameter. *Numerische Mathematik*, 48(5):591–606, May 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gragg:1990:DCM

[GR90] W. B. Gragg and L. Reichel. A divide and conquer method for unitary and orthogonal eigenproblems. *Numerische Mathematik*, 57(8):695–718, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gragg:1968:TEB

[Gra68] William B. Gragg. Truncation error bounds for g-fractions. *Numerische Mathematik*, 11(5): 370–379, June 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greenstadt:1962:SNE

[Gre62] John Greenstadt. Some numerical experiments in triangularizing matrices. *Numerische Mathematik*, 4:187–195, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greenberg:1975:ADR

[Gre75] Harold Greenberg. An algorithm for determining redundant inequalities and all solutions to convex polyhedra. *Numerische Mathematik*, 24(1):19–26, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greenbaum:1979:CSU

[Gre79] A. Greenbaum. Comparison of splittings used with the conjugate gradient algorithm. *Numerische Mathematik*, 33(2): 181–193, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greenberg:1980:ALD

[Gre80] Harold Greenberg. An algorithm for a linear Diophantine equation and a problem of Frobenius. *Numerische Mathematik*, 34(4):349–352, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Greaves:1982:AHM

[Gre82] G. Greaves. An algorithm for the Hausdorff moment problem. *Numerische Mathematik*, 39(2): 231–238, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gries:1967:CCC

[Gri67] David Gries. Characterizations of certain classes of norms. *Numerische Mathematik*, 10(1): 30–41, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grigorieff:1970:KRE

[Gri70a] Rolf Dieter Grigorieff. Die Konvergenz des Rand- und Eigenwertproblems linearer gewöhnlicher Differenzengleichungen. (German) [The convergence of boundary- and eigenvalue problems of linear difference equations]. *Numerische Mathematik*, 15(1):15–48, May 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grigorieff:1970:KGD

[Gri70b] Rolf Dieter Grigorieff. Über die Koerzitivität gewönlicher Differenzenoperatoren und die Konvergenz von Mehrschrittverfahren. (German) [On the coerciveness of ordinary difference operators and the convergence of multistep methods]. *Numerische Mathematik*, 15(3): 196–218, July 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grigorieff:1975:DAEc

[Gri75a] Rolf Dieter Grigorieff. Diskrete Approximation von Eigenwerteproblemen. III. Asymptotische Entwicklungen. (German) [Discrete approximation of eigenvalue-problems. III. Asymptotic expansions]. *Numerische Mathematik*, 25(1): 79–97, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grigorieff:1975:DAEa

[Gri75b] Rolf Dieter Grigorieff. Diskrete Approximation von Eigenwertproblemen. I. Qualitative Konvergenz. (German) [Discrete approximation of the eigenvalue problem. I. Qualitative convergence]. *Numerische Mathe-*

matik, 24(4):355–374, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grigorieff:1975:DAEb

[Gri75c] Rolf Dieter Grigorieff. Diskrete Approximation von Eigenwertproblemen. II. Konvergenzordnung. (German) [Discrete approximation of eigenvalue problems. II. Convergence order]. *Numerische Mathematik*, 24(5): 415–433, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Griewank:1980:SDC

[Gri80] A. O. Griewank. Starlike domains of convergence for Newton's method at singularities. *Numerische Mathematik*, 35(1): 95–111, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grigorieff:1983:SMM

[Gri83] Rolf Dieter Grigorieff. Stability of multistep-methods on variable grids. *Numerische Mathematik*, 42(3):359–377, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grigorieff:1985:ESG

[Gri85] Rolf Dieter Grigorieff. Einige Stabilitätsungleichungen für gewöhnliche Differenzengleichungen in nichtkompakter Form. (German) [Some stability inequalities for ordinary difference equations in noncompact form]. *Numerische Mathematik*, 47(4): 565–576, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grozev:1989:CTM

[Gro89] Georgi R. Grozev. Comparison theorems for L-monosplines of minimal norm. *Numerische Mathematik*, 56(4):331–343, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grune:1997:AGS

[Grü97] Lars Grüne. An adaptive grid scheme for the discrete Hamilton–Jacobi–Bellman equation. *Numerische Mathematik*, 75(3):319–337, January 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075003/70750319.htm; http://science.springer.de/nmee/bibs/7075003/70750319.htm`.

Geistbeck:1974:OFD

[GS74] F. Geistbeck and A. Sachs. Optimale Fehlerabschätzungen mit dualen Funktionalen bei semilinearen Randwertaufgaben gewöhnlicher Differentialgleichungen. (German) [Optimal error estimations with dual functionals for boundary value problems of ordinary semilinear differential equations]. *Numerische Mathematik*, 22(2):

127–136, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Glashoff:1977:TNA

[GS77] K. Glashoff and E. Sachs. On theoretical and numerical aspects of the bang-bang-principle. *Numerische Mathematik*, 29(1):93–113, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sun:1983:PBE

[gS83] Ji guang Sun. The perturbation bounds for eigenspaces of a definite matrix-pair. *Numerische Mathematik*, 41(3): 321–343, July 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sun:1991:ERQ

[gS91] Ji guang Sun. Eigenvalues of Rayleigh quotient matrices. *Numerische Mathematik*, 59(6): 603–614, September 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sun:1992:CNN

[gS92] Ji guang Sun. On condition numbers of a nondefective multiple eigenvalue. *Numerische Mathematik*, 61(2): 265–275, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sun:1993:BPA

[gS93a] Ji guang Sun. Backward perturbation analysis of certain characteristic subspaces. *Numerische Mathematik*, 65(3): 357–382, July 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guo:1993:FEA

[GS93b] Wen Guo and Martin Stynes. Finite element analysis of exponentially fitted Lumped schemes for time-dependent convection-diffusion problems. *Numerische Mathematik*, 66(3): 347–371, December 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gottlieb:1995:GPV

[GS95a] David Gottlieb and Chi-Wang Shu. On the Gibbs phenomenon. V. recovering exponential accuracy from collocation point values of a piecewise analytic function. *Numerische Mathematik*, 71(4):511–526, October 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071004/50710511.htm; http://science.springer.de/nmee/bibs/5071004/50710511.htm`.

Sun:1995:WCC

[gS95b] Ji guang Sun. On worst-case condition numbers of a nondefective multiple eigenvalue.

Numerische Mathematik, 69(3): 373–382, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5069003/50690373.htm; http://science.springer.de/nmee/bibs/5069003/50690373.htm.

Govaerts:1996:DHP

[GS96a] W. Govaerts and A. Spence. Detection of Hopf points by counting sectors in the complex plane. *Numerische Mathematik*, 75(1): 43–58, November 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6075001/60750043.htm; http://science.springer.de/nmee/bibs/6075001/60750043.htm.

Sun:1996:PAS

[gS96b] Ji guang Sun. Perturbation analysis of singular subspaces and deflating subspaces. *Numerische Mathematik*, 73(2): 235–263, April 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6073002/60730235.htm; http://science.springer.de/nmee/bibs/6073002/60730235.htm.

Sun:1997:RBA

[gS97] Ji guang Sun. Residual bounds of approximate solutions of the algebraic Riccati equation. *Numerische Mathematik*, 76(2): 249–263, April 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7076002/70760249.htm; http://science.springer.de/nmee/bibs/7076002/70760249.htm.

Sun:1998:PAG

[gS98a] Ji guang Sun. Perturbation analysis of generalized singular subspaces. *Numerische Mathematik*, 79(4): 615–641, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079004/80790615.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790615.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790615.ps.gz.

Sun:1998:RBA

[gS98b] Ji guang Sun. Residual bounds of approximate solutions of the discrete-time algebraic Riccati equation. *Numerische Mathematik*, 78(3):463–478, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7078003/70780463.htm; http://science.springer.

de/nmee/bibs/7078003/70780463.htm.

Guo:1998:VCF

[GS98c] Benqi Guo and Ernst P. Stephan. The *h-p* version of the coupling of finite element and boundary element methods for transmission problems in polyhedral domains. *Numerische Mathematik*, 80(1): 87–107, July 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8080001/80800087.htm; http://link.springer.de/link/service/journals/00211/papers/8080001/80800087.pdf; http://link.springer.de/link/service/journals/00211/papers/8080001/80800087.ps.gz.

Sun:1999:BEI

[gS99] Ji guang Sun. Backward errors for the inverse eigenvalue problem. *Numerische Mathematik*, 82(2):339–349, April 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082002/90820339.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082002/90820339.pdf.

Gaier:1967:RCO

[GT67] Dieter Gaier and John Todd. On the rate of convergence of optimal ADI processes. *Numerische Mathematik*, 9(5):452–459, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golomb:1972:MGN

[GT72] M. Golomb and R. A. Tapia. The metric gradient in normed linear spaces. *Numerische Mathematik*, 20(2):115–124, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Good:1978:IST

[GT78] I. J. Good and T. N. Tideman. Integration over a simplex, truncated cubes, and Eulerian numbers. *Numerische Mathematik*, 30(4):355–367, December 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Griewank:1982:LCA

[GT82a] A. Griewank and Ph. L. Toint. Local convergence analysis for partitioned quasi-Newton updates. *Numerische Mathematik*, 39(3):429–448, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Griewank:1982:PVM

[GT82b] A. Griewank and Ph. L. Toint. Partitioned variable metric updates for large structured optimization problems. *Numerische Mathematik*, 39(1): 119–137, June 1982. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gaviano:1984:GCT

[GT84] M. Gaviano and F. Testa. A general convergence theorem for the reduced gradient method. *Numerische Mathematik*, 43(2): 241–247, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gilbert:1987:AND

[GT87] John R. Gilbert and Robert Endre Tarjan. The analysis of a nested dissection algorithm. *Numerische Mathematik*, 50(4): 377–404, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guessab:1986:CFW

[Gue86] A. Guessab. Cubature formulae which are exact on spaces P, intermediate betweenP_k and $Q_{k'}$. *Numerische Mathematik*, 49(5): 561–576, September 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guessab:1988:NCF

[Gue88] A. Guessab. Numerical cubature formulae with preassigned knots. *Numerische Mathematik*, 52(4):467–478, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guermond:1994:RMP

[Gue94] Jean-Luc Guermond. Remarques sur les méthodes de projection pour l'approximation des équations de Navier–Stokes. (French) [Remarks on projection methods for approximating Navier–Stokes equations]. *Numerische Mathematik*, 67(4): 465–473, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067004/40670465.htm; http://science.springer.de/nmee/bibs/4067004/40670465.htm`.

Guglielmi:1997:ASP

[Gug97] Nicola Guglielmi. On the asymptotic stability properties of Runge–Kutta methods for delay differential equations. *Numerische Mathematik*, 77(4): 467–485, October 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077004/70770467.htm; http://science.springer.de/nmee/bibs/7077004/70770467.htm`.

Gunn:1964:NSS

[Gun64a] J. E. Gunn. The numerical solution of $\nabla \cdot a \nabla u = f$ by a semi-explicit alternating-direction iterative technique. *Numerische Mathematik*, 6(1): 181–184, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gunn:1964:TSI

[Gun64b] J. E. Gunn. On the two-stage iterative method of Douglas for mildly non-linear elliptic difference equations. *Numerische Mathematik*, 6(1):243–249, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gunther:1975:ZQG

[Gün75] Claus Günther. Zweidimensionale Quadraturformeln von Grad 7 mit 14 Punkten. (German) [Two dimensional quadrature formulae of degree seven with fourteen common zeros]. *Numerische Mathematik*, 24(4): 309–316, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gunttner:1994:EBU

[Gün94] R. Günttner. Exact bounds for the uniform approximation by cardinal spline interpolants. *Numerische Mathematik*, 68(2): 263–267, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680263.htm; http://science.springer.de/nmee/bibs/4068002/40680263.htm`.

Gunther:1998:SDC

[Gün98] Michael Günther. Simulating digital circuits numerically — a charge-oriented ROW approach. *Numerische Mathematik*, 79(2): 203–212, April 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079002/80790203.htm; http://science.springer.de/nmee/bibs/8079002/80790203.htm`.

Guo:1988:VFE

[Guo88] Ben Qi Guo. The *h-p* version of the finite element method for elliptic equations of order $2m$. *Numerische Mathematik*, 53(1/2): 199–224, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Guo:1999:IBF

[Guo99] Chun-Hua Guo. Incomplete block factorization preconditioning for indefinite elliptic problems. *Numerische Mathematik*, 83(4):621–639, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830621.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830621.pdf`.

Gustafsson:1973:NMS

[Gus73] Bertil Gustafsson. A numerical method for solving singular boundary value problems. *Numerische Mathematik*, 21(4): 328–344, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gustafson:1985:SCA

[Gus85] Sven-Åke Gustafson. Stable convergence acceleration using Laplace transforms. *Numerische Mathematik*, 47(3): 387–394, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gutknecht:1972:PEB

[Gut72] Martin Gutknecht. A posteriori error bounds for the zeros of a polynomial. *Numerische Mathematik*, 20(2):139–148, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gutknecht:1981:STI

[Gut81] Martin H. Gutknecht. Solving Theodorsen's integral equation for conformal maps with the fast Fourier transform and various nonlinear iterative methods. *Numerische Mathematik*, 36(4):405–429, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gutknecht:1987:AFM

[Gut87] Martin H. Gutknecht. Attenuation factors in multivariate Fourier analysis. *Numerische Mathematik*, 51(6): 615–629, November 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gutknecht:1989:CFA

[Gut89a] Martin H. Gutknecht. Continued fractions associated with the Newton–Padé table. *Numerische Mathematik*, 56(6): 547–589, December 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gutknecht:1989:SAS

[Gut89b] Martin H. Gutknecht. Stationary and almost stationary iterative (k, l)-step methods for linear and nonlinear systems of equations. *Numerische Mathematik*, 56(2/3):179–213, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1961:CSIa

[GV61a] Gene H. Golub and Richard S. Varga. Chebyshev semi-iterative methods, successive overrelaxation iterative methods, and second order Richardson iterative methods. I. *Numerische Mathematik*, 3:147–156, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1961:CSIb

[GV61b] Gene H. Golub and Richard S. Varga. Chebyshev semi-iterative methods, successive overrelaxation iterative methods, and second order Richardson iterative methods. II. *Numerische Mathematik*, 3:157–168, December 1961. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1988:OPH

[GV88] Gene H. Golub and Richard S. Varga. Obituary to Peter Henrici (13. September 1923–13. March 1987). *Numerische Mathematik*, 52(5):481–482, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1991:QCL

[GvM91] Gene H. Golub and Urs von Matt. Quadratically constrained least squares and quadratic problems. *Numerische Mathematik*, 59(6):561–580, September 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golub:1966:NIR

[GW66] G. H. Golub and J. H. Wilkinson. Note on the iterative refinement of least squares solution. *Numerische Mathematik*, 9(2): 139–148, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gekeler:1986:OCR

[GW86] E. Gekeler and R. Widmann. On the order conditions of Runge–Kutta methods with higher derivatives. *Numerische Mathematik*, 50(2):183–203, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gohner:1994:SIA

[GW94] U. Göhner and G. Warnecke. A shock indicator for adaptive transonic flow computations. *Numerische Mathematik*, 66(4):423–448, January 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Gohner:1995:SOF

[GW95a] U. Göhner and G. Warnecke. A second order finite difference error indicator for adaptive transonic flow computations. *Numerische Mathematik*, 70(2): 129–161, April 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070002/50700129.htm; http://science.springer.de/nmee/bibs/5070002/50700129.htm`.

Govaerts:1995:CBM

[GW95b] Willy Govaerts and Bodo Werner. Continuous bordering of matrices and continuous matrix decompositions. *Numerische Mathematik*, 70(3): 303–310, May 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070003/50700303.htm; http://science.springer.de/nmee/bibs/5070003/50700303.htm`.

Gautschi:1995:COP

[GZ95] Walter Gautschi and Minda Zhang. Computing orthogonal polynomials in Sobolev spaces. *Numerische Mathematik*, 71(2): 159–183, August 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071002/50710159.htm; http://science.springer.de/nmee/bibs/5071002/50710159.htm`.

S:1973:AHA

[H. 73] H. S. Alston S. Householder Award. *Numerische Mathematik*, 21(1):i, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hegland:1998:MFI

[HA98] M. Hegland and R. S. Anderssen. A mollification framework for improperly posed problems. *Numerische Mathematik*, 78(4): 549–575, February 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078004/70780549.htm; http://science.springer.de/nmee/bibs/7078004/70780549.htm`.

Haas:1960:BEA

[Haa60] Hans-Lothar Haas. Bestimmung der Eigenwerte des allgemeinen Eigenwertproblems. (German) [Determination of the eigenvalues of the general eigenvalue problem]. *Numerische Mathematik*, 2(1):341–343, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=2&issue=1&spage=341`.

Hackbusch:1977:ELN

[Hac77a] W. Hackbusch. Extrapolation to the limit for numerical solutions of hyperbolic equations. *Numerische Mathematik*, 28(4): 455–474, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hackbusch:1977:EAC

[Hac77b] Wolfgang Hackbusch. Extrapolation applied to certain discretization methods solving the initial value problem for hyperbolic differential equations. *Numerische Mathematik*, 28(2): 121–142, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hackbusch:1979:FSN

[Hac79] Wolfgang Hackbusch. On the fast solutions of nonlinear elliptic equations. *Numerische Mathematik*, 32(1): 83–95, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hackbusch:1989:FDM

[Hac89] Wolfgang Hackbusch. The frequency decomposition multigrid method. I. application to anisotropic equations. *Numerische Mathematik*, 56(2/3): 229–245, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hackbusch:1992:FDM

[Hac92] Wolfgang Hackbusch. The frequency decomposition multi grid method. II. Convergence analysis based on the additive Schwarz method. *Numerische Mathematik*, 63(4): 433–453, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadeler:1968:NVI

[Had68] K. P. Hadeler. Newton-Verfahren für inverse Eigenwertaufgaben. (German) [Newton method for inverse eigenvalue problems]. *Numerische Mathematik*, 12(1):35–39, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadeler:1969:EAM

[Had69a] K. P. Hadeler. Einige Anwendungen mehrparametriger Eigenwertaufgaben. (German) [Some uses of extra parametrized eigenvalue problems]. *Numerische Mathematik*, 13(3): 285–292, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadjidimos:1969:SHA

[Had69b] Apostolos Hadjidimos. On some high accuracy difference schemes for solving elliptic equations. *Numerische Mathematik*, 13(5):396–403, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadjidimos:1971:NSM

[Had71] A. Hadjidimos. The numerical solution of a model problem biharmonic equation by using extrapolated alternating direction implicit methods. *Numerische Mathematik*, 17(4):301–317, August 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadeler:1972:BAW

[Had72a] K. P. Hadeler. Bemerkungen zu einer Arbeit von W. Wetterling über positive Operatoren. (German) [Remarks on a work by W. Wetterling on positive operators]. *Numerische Mathematik*, 19(3):260–265, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadeler:1972:BGG

[Had72b] K. P. Hadeler. Bemerkungen zum Gradientenverfahren. (German) [Remarks on gradient methods]. *Numerische Mathematik*, 18(5):413–422, October 1972. CODEN NUMMA7. ISSN

0029-599X (print), 0945-3245 (electronic).

Hadeler:1980:ECP

[Had80] K. P. Hadeler. Effective computation of periodic orbits and bifurcation diagrams in delay equations. *Numerische Mathematik*, 34(4):457–467, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadjidimos:1987:OSN

[Had87] A. Hadjidimos. Optimum stationary and nonstationary iterative methods for the solution of singular linear systems. *Numerische Mathematik*, 51(5): 517–530, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadeler:1996:SOK

[Had96] K. P. Hadeler. Shadowing orbits and Kantorovich's theorem. *Numerische Mathematik*, 73(1): 65–73, March 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073001/60730065.htm; http://science.springer.de/nmee/bibs/6073001/60730065.htm`.

Haemmerlin:1963:UAS

[Hae63] Günther Haemmerlin. Über ableitungsfreie Schranken für Quadraturfehler. (German) [On derivative-free bounds for quadrature error]. *Numerische Mathematik*, 5(1):226–233, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hager:1987:MFF

[Hag87] William W. Hager. A modified fast Fourier transform for polynomial evaluation and the Jenkins–Traub algorithm. *Numerische Mathematik*, 50(3): 253–261, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1977:MNP

[Hai77] E. Hairer. Méthodes de Nyström pour l'équation différentielle $y'' = f(x, y)$. (French) [Nyström methods for the differential equation $y'' = f(x, y)$]. *Numerische Mathematik*, 27(3): 283–300, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1978:OID

[Hai78] E. Hairer. On the order of iterated defect correction — an algebraic proof. *Numerische Mathematik*, 29(4): 409–424, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1979:USM

[Hai79] E. Hairer. Unconditionally stable methods for second order differential equations. *Numerische Mathematik*, 32(4):

373–379, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1980:USE

[Hai80] E. Hairer. Unconditionally stable explicit methods for parabolic equations. *Numerische Mathematik*, 35(1): 57–68, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1981:OCN

[Hai81] E. Hairer. Order conditions for numerical methods for partitioned ordinary differential equations. *Numerische Mathematik*, 36(4):431–445, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1982:CCS

[Hai82] E. Hairer. Constructive characterization of A-stable approximations to $\exp(z)$ and its connection with algebraically stable Runge–Kutta methods. *Numerische Mathematik*, 39(2): 247–258, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1986:SRK

[Hai86] E. Hairer. A- and B-stability for Runge–Kutta methods—characterizations and equivalence. *Numerische Mathematik*, 48(4):383–389, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1999:BEA

[Hai99] Ernst Hairer. Backward error analysis for multistep methods. *Numerische Mathematik*, 84(2):199–232, December 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084002/90840199.htm`; `http://link.springer-ny.com/link/service/journals/00211/papers/9084002/90840199.pdf`.

Halton:1960:BEC

[Hal60a] J. H. Halton. Berichtigung: "On the efficiency of certain quasi-random sequences of points in evaluating multi-dimensional integrals" [Num. Math. **2**, 84–90 (1960)]. (German) [Correction]. *Numerische Mathematik*, 2(1):196, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Hal60b].

Halton:1960:ECQ

[Hal60b] J. H. Halton. On the efficiency of certain quasi-random sequences of points in evaluating multi-dimensional integrals. *Numerische Mathematik*, 2(1): 84–90, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See correction [Hal60a].

Hald:1975:NTM

[Hal75] Ole H. Hald. On a Newton-Moser type method. *Numerische Mathematik*, 23(5): 411–426, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hald:1977:DIS

[Hal77] Ole H. Hald. Discrete inverse Sturm–Liouville problems. I. uniqueness for symmetric potentials. *Numerische Mathematik*, 27(2):249–256, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hallatschek:1992:FDG

[Hal92] Klaus Hallatschek. Fouriertransformation auf dünnen Gittern mit hierarchischen Basen. (German) [Fourier transform on sparse grids with hierarchical bases]. *Numerische Mathematik*, 63(1):83–97, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hammerlin:1965:ASQ

[Häm65] Günther Hämmerlin. Über ableitungsfreie Schranken für Quadraturfehler. II: Ergänzungen und Möglichkeiten zur Verbesserung. (German) [On constraints without derivatives for quadrature errors. II: Completions and possibilities to improve]. *Numerische Mathematik*, 7(3):232–237, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hammerlin:1966:AQA

[Häm66] Günther Hämmerlin. Zur Abschätzung von Quadraturfehlern für analytische Funktionen. (German) [On bounds for quadrature error for analytic funktions]. *Numerische Mathematik*, 8(4):334–344, June 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Handscomb:1964:RMC

[Han64] D. C. Handscomb. Remarks on a Monte Carlo integration method. *Numerische Mathematik*, 6(1):261–268, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hansen:1980:GOU

[Han80] Eldon Hansen. Global optimization using interval analysis — the multi-dimensional case. *Numerische Mathematik*, 34(3): 247–270, September 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Han:1982:NSI

[Han82] Houde Han. The numerical solutions of interface problems by infinite element method. *Numerische Mathematik*, 39(1): 39–50, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hanke:1988:LSC

[Han88] Michael Hanke. On a least-squares collocation method for linear differential-algebraic equations. *Numerische Mathematik*, 54(1):79–90, October 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Han:1991:BEM

[Han91a] Houde Han. A boundary element method for Signorini problems in three dimensions. *Numerische Mathematik*, 60(1):63–75, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hanke:1991:ALI

[Han91b] Martin Hanke. Accelerated Landweber iterations for the solution of ill-posed equations. *Numerische Mathematik*, 60(3): 341–373, December 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Han:1992:FEA

[Han92] Weimin Han. Finite element analysis of a holonomic elastic-plastic problem. *Numerische Mathematik*, 60(4): 493–508, January 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Han:1994:BID

[Han94] Houde Han. The boundary integro-differential equations of three-dimensional Neumann problem in linear elasticity. *Numerische Mathematik*, 68 (2):269–281, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680269.htm; http://science.springer.de/nmee/bibs/4068002/40680269.htm`.

Hanke:1997:SCR

[Han97] Martin Hanke. Superlinear convergence rates for the Lanczos method applied to elliptic operators. *Numerische Mathematik*, 77(4):487–499, October 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077004/70770487.htm; http://science.springer.de/nmee/bibs/7077004/70770487.htm`.

Hao:1994:MMI

[Hào94] Dinh Nho Hào. A mollification method for ill-posed problems. *Numerische Mathematik*, 68(4): 469–506, October 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068004/40680469.htm; http://science.springer.de/nmee/bibs/4068004/40680469.htm`.

Harary:1962:GTA

[Har62] Frank Harary. A graph theoretic approach to matrix inversion by partitioning. *Numerische Mathematik*, 4:128–135, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hartung:1978:SIP

[Har78] Joachim Hartung. A stable interior penalty method for convex extremal problems. *Numerische Mathematik*, 29(2): 149–158, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hartfiel:1980:CSS

[Har80] D. J. Hartfiel. Concerning the solution set of $Ax = b$ where $P \leq A \leq Q$ and $p \leq b \leq q$. *Numerische Mathematik*, 35(3): 355–359, October 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hari:1982:GCE

[Har82] V. Hari. On the global convergence of the Eberlein method for real matrices. *Numerische Mathematik*, 39(3):361–369, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hari:1991:SQC

[Har91] Vjeran Hari. On sharp quadratic convergence bounds for the serial Jacobi methods. *Numerische Mathematik*, 60(3): 375–406, December 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Haussler:1986:KTC

[Häu86] W. M. Häussler. A Kantorovich-type convergence analysis for the Gauss–Newton method. *Numerische Mathematik*, 48(1): 119–125, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Haverkamp:1977:SLP

[Hav77] Richard Haverkamp. Sturm–Liouville-Probleme mit schwach singulären Koeffizientenfunktionen. Teil I. Eigenwertproblem. (German) [Weak singular Sturm–Liouville problems. I. Eigenvalue problem]. *Numerische Mathematik*, 27(4): 471–484, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Haverkamp:1984:ASG

[Hav84] Richard Haverkamp. Eine Aussage zur L_∞-Stabilität und zur genauen Konvergenzordnung der H_0^1-Projektionen. (German) [A statement concerning L_∞-stability and the exact order of convergence of H_0^1-projections]. *Numerische Mathematik*, 44(3): 393–405, September 1984. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Hayden:1965:CFA

[Hay65] T. L. Hayden. Continued fraction approximation to functions. *Numerische Mathematik*, 7(4): 292–309, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Householder:1959:CME

[HB59] Alston S. Householder and Friedrich L. Bauer. On certain methods for expanding the characteristic polynomial. *Numerische Mathematik*, 1:29–37, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Householder:1960:CIM

[HB60] A. S. Householder and F. L. Bauer. On certain iterative methods for solving linear systems. *Numerische Mathematik*, 2(1):55–59, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Han:1997:ABC

[HB97] H. Han and W. Bao. The artificial boundary conditions for incompressible materials on an unbounded domain. *Numerische Mathematik*, 77(3):347–363, September 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077003/70770347.htm; http://science.springer.de/nmee/bibs/7077003/70770347.htm`.

Householder:1963:SVI

[HC63] A. S. Householder and John A. Carpenter. The singular values of involutory and of idempotent matrices. *Numerische Mathematik*, 5(1):234–237, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Habbal:1992:DFE

[HC92] A. Habbal and D. Chenais. Deterioration of a finite element method for arch structures when the thickness goes to zero. *Numerische Mathematik*, 62(3): 321–341, August 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hutchinson:1985:SND

[HdH85] M. F. Hutchinson and F. R. de Hoog. Smoothing noisy data with spline functions. *Numerische Mathematik*, 47(1):99–106, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Dai:1999:GCM

[hDxY99] Yu hong Dai and Ya xiang Yuan. Global convergence of the method of shortest residuals. *Numerische Mathematik*, 83(4):581–598, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245

(electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830581.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830581.pdf. See comments [Pyt02].

He:1994:SCL

[He94] Bingsheng He. Solving a class of linear projection equations. *Numerische Mathematik*, 68(1): 71–80, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4068001/40680071.htm; http://science.springer.de/nmee/bibs/4068001/40680071.htm.

He:1997:DUD

[He97] C. He. On the distance to uncontrollability and the distance to instability and their relation to some condition numbers in control. *Numerische Mathematik*, 76(4): 463–477, June 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7076004/70760463.htm; http://science.springer.de/nmee/bibs/7076004/70760463.htm.

Heap:1966:RMG

[Hea66] B. R. Heap. Random matrices and graphs. *Numerische Mathematik*, 8(2):114–122, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hebeker:1988:NTV

[Heb88] F. K. Hebeker. On the numerical treatment of viscous flows against bodies with corners and edges by boundary element and multigrid methods. *Numerische Mathematik*, 52(1):81–99, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hedstrom:1965:NSL

[Hed65] G. W. Hedstrom. The near-stability of the Lax–Wendroff method. *Numerische Mathematik*, 7(1):73–77, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heesterman:1968:SSA

[Hee68] A. R. G. Heesterman. Special simplex algorithm for multi-sector problems. *Numerische Mathematik*, 12(4): 288–306, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hegland:1991:PST

[Heg91] Markus Hegland. On the parallel solution of tridiagonal systems by wrap-around partitioning and incomplete *LU* factorization. *Numerische Mathematik*, 59(5):453–472, August 1991. CODEN NUMMA7. ISSN

0029-599X (print), 0945-3245 (electronic).

Hegland:1994:SSP

[Heg94] Markus Hegland. A self-sorting in-place fast Fourier transform algorithm suitable for vector and parallel processing. *Numerische Mathematik*, 68(4): 507–547, October 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068004/40680507.htm; http://science.springer.de/nmee/bibs/4068004/40680507.htm`.

Heinrichs:1989:KKE

[Hei89a] Wilhelm Heinrichs. Konvergenzaussagen für Kollokationsverfahren bei elliptischen Randwertaufgaben. (German) [Convergence of the collocation method for elliptic boundary value problems]. *Numerische Mathematik*, 54(6):619–637, March 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heinrichs:1989:SMS

[Hei89b] Wilhelm Heinrichs. Spectral methods with sparse matrices. *Numerische Mathematik*, 56(1): 25–41, September 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hekrdla:1987:ITD

[Hek87] Josef Hekrdla. Index transforms for N-dimensional DFT's. *Numerische Mathematik*, 51(4): 469–480, August 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heller:1968:UPC

[Hel68] Sidney Heller. On the uniform positivity of a certain finite difference matrix. *Numerische Mathematik*, 11(1):46–52, January 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Helfrich:1987:EES

[Hel87] Hans-Peter Helfrich. Error estimates for semidiscrete Galerkin type approximations to semilinear evolution equations with nonsmooth initial data. *Numerische Mathematik*, 51(5): 559–569, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hemmingsson:1998:SPC

[Hem98] Lina Hemmingsson. A semi-circulant preconditioner for the convection-diffusion equation. *Numerische Mathematik*, 81(2): 211–248, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081002/80810211.htm; http://link.springer.de/link/service/journals/00211/papers/8081002/80810211.pdf`.

Henrici:1962:BII

[Hen62] Peter Henrici. Bounds for iterates, inverses, spectral variation and fields of values of non-normal matrices. *Numerische Mathematik*, 4:24–39, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Henrich:1975:NES

[Hen75] C. J. Henrich. On the numerical evaluation of a sum involving binomial coefficients. *Numerische Mathematik*, 24(1):81–83, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Henrici:1979:BFI

[Hen79] Peter Henrici. Barycentric formulas for interpolating trigonometric polynomials and their conjugates. *Numerische Mathematik*, 33(2):225–234, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hertling:1970:APC

[Her70] Jörg Hertling. Approximation of piecewise continuous functions by a modification of piecewise Hermite interpolation. *Numerische Mathematik*, 15(5):404–414, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hertling:1971:NTS

[Her71] Jörg Hertling. Numerical treatment of singular integral equations by interpolation methods. *Numerische Mathematik*, 18(2):101–112, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Herz:1974:ZTA

[Her74] B. Herz. Zerfallende Tridiagonalematrizen und aneinandergesetzte Sturmsche Ketten. (German) [Decomposable tridiagonal matrices and contiguous Sturm sequences]. *Numerische Mathematik*, 23(1):95–98, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Herceg:1990:UFO

[Her90] Dragoslav Herceg. Uniform fourth order difference scheme for a singular perturbation problem. *Numerische Mathematik*, 56(7):675–693, January 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

HernandezVeron:1991:NHM

[Her91] Miguel A. Hernández Verón. A note on Halley's method. *Numerische Mathematik*, 59(3):273–276, June 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hettich:1974:KZO

[Het74] R. Hettich. Kriterien zweiter Ordnung für lokal beste Approximationen. (German) [Second-order conditions for locally best approximations]. *Numerische*

Mathematik, 22:409–417, October 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hettich:1975:KEZ

[Het75] R. Hettich. Kriterien erster und zweiter Ordnung für lokal beste Approximationen bei Problemen mit Nebenbedingungen. (German) [On first and second order conditions for locally best approximations for constraint problems]. *Numerische Mathematik*, 25(1):109–122, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heuer:1998:ISM

[Heu98] Norbert Heuer. An iterative substructuring method for the p-version of the boundary element method for hypersingular integral operators in three dimensions. *Numerische Mathematik*, 79(3): 371–396, May 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079003/80790371.htm; http://science.springer.de/nmee/bibs/8079003/80790371.htm`. See erratum [Heu01].

Heuer:2001:EIS

[Heu01] Norbert Heuer. Erratum: "An iterative substructuring method for the p-version of the boundary element method for hypersingular integral operators in three dimensions" Numer. Math. (1998) **79**: 371–396. *Numerische Mathematik*, 87(4):793–794, February 2001. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/1087004/10870793.htm; http://link.springer-ny.com/link/service/journals/00211/papers/1087004/10870793.pdf`. See [Heu98].

Haslinger:1976:MFE

[HH76] J. Haslinger and I. Hlaváček. A mixed finite element method close to the equilibrium model. *Numerische Mathematik*, 26(1): 85–97, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hiptmair:1999:MMM

[HH99] Ralf Hiptmair and Ronald H. W. Hoppe. Multilevel methods for mixed finite elements in three dimensions. *Numerische Mathematik*, 82(2):253–279, April 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082002/90820253.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082002/90820253.pdf`.

Hallet:1976:GMM

[HHM76] P. Hallet, J. P. Hennart, and E. H. Mund. A Galerkin method with modified piecewise poly-

nomials for solving a second-order boundary value problem. *Numerische Mathematik*, 27(1): 11–20, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Huang:1994:RMO

[HHZ94] Hongci Huang, Weimin Han, and Jinshi Zhou. The regularization method for an obstacle problem. *Numerische Mathematik*, 69(2):155–166, December 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069002/40690155.htm; http://science.springer.de/nmee/bibs/4069002/40690155.htm`.

Hoshino:1971:SPD

[HI71] S. Hoshino and K. Ichida. Solution of partial differential equations by a modified random walk. *Numerische Mathematik*, 18(1):61–72, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Higham:1987:EAB

[Hig87] Nicholas J. Higham. Error analysis of the Björck-Pereyra algorithms for solving Vandermonde systems. *Numerische Mathematik*, 50(5):613–632, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Higham:1992:EMN

[Hig92] Nicholas J. Higham. Estimating the matrix p-norm. *Numerische Mathematik*, 62(4): 539–555, September 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hilali:1983:RSD

[Hil83] Abdelaziz Hilali. Réductibilité d'un système différentiel linéaire. (French) [Reducibility of a linear differential system]. *Numerische Mathematik*, 41(1):1–17, April 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hinze:1996:NAU

[Hin96] Michael Hinze. On the numerical approximation of unstable minimal surfaces with polygonal boundaries. *Numerische Mathematik*, 73(1):95–118, March 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073001/60730095.htm; http://science.springer.de/nmee/bibs/6073001/60730095.htm`.

Hairer:1990:ERK

[HISS90] E. Hairer, A. Iserles, and J. M. Sanz-Serna. Equilibria of Runge–Kutta methods. *Numerische Mathematik*, 58(3): 243–254, October 1990. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Heinig:1990:PSA

[HJ90] G. Heinig and P. Jankowski. Parallel and superfast algorithms for Hankel systems of equations. *Numerische Mathematik*, 58(1):109–127, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heinig:1988:FIA

[HJR88a] G. Heinig, P. Jankowski, and K. Rost. Fast inversion algorithms of Toeplitz-plus-Hankel matrices. *Numerische Mathematik*, 52(6):665–682, June 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hennart:1988:CMD

[HJR88b] Jean-Pierre Hennart, Jérôme Jaffre, and Jean Elizabeth Roberts. A constructive method for deriving finite elements of nodal type. *Numerische Mathematik*, 53(6):701–738, September 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hull:1960:NME

[HL60] T. E. Hull and W. A. J. Luxemburg. Numerical methods and existence theorems for ordinary differential equations. *Numerische Mathematik*, 2(1):30–41, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heap:1964:GTA

[HL64a] B. R. Heap and M. S. Lynn. A graph-theoretic algorithm for the solution of a linear Diophantine problem of Frobenius. *Numerische Mathematik*, 6(1):346–354, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heap:1964:IPN

[HL64b] B. R. Heap and M. S. Lynn. The index of primitivity of a non-negative matrix. *Numerische Mathematik*, 6(1):120–141, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heap:1965:LDP

[HL65] B. R. Heap and M. S. Lynn. On a linear Diophantine problem of Frobenius: an improved algorithm. *Numerische Mathematik*, 7(3):226–231, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1984:AEG

[HL84] E. Hairer and C. Lubich. Asymptotic expansions of the global error of fixed-stepsize methods. *Numerische Mathematik*, 45(3):345–360, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1988:EAS

[HL88] E. Hairer and C. Lubich. Extrapolation at stiff differential

equations. *Numerische Mathematik*, 52(4):377–400, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1997:LSB

[HL97] E. Hairer and Ch. Lubich. The life-span of backward error analysis for numerical integrators. *Numerische Mathematik*, 76(4): 441–462, June 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076004/70760441.htm; http://science.springer.de/nmee/bibs/7076004/70760441.htm`.

He:1998:CSF

[HL98] Yinnian He and Kaitai Li. Convergence and stability of finite element nonlinear Galerkin method for the Navier–Stokes equations. *Numerische Mathematik*, 79(1):77–106, March 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079001/80790077.htm; http://science.springer.de/nmee/bibs/8079001/80790077.htm`.

Hochbruck:1999:GTM

[HL99] Marlis Hochbruck and Christian Lubich. A Gautschi-type method for oscillatory second-order differential equations. *Numerische Mathematik*, 83(3):403–426, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830403.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830403.pdf`.

Hackbusch:1983:MGM

[HM83] W. Hackbusch and H. D. Mittelmann. On multi-grid methods for variational inequalities. *Numerische Mathematik*, 42(1): 65–76, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hegland:1986:NCL

[HM86] M. Hegland and J. T. Marti. Numerical computation of least constants for the Sobolev inequality. *Numerische Mathematik*, 48(6):607–616, June 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hoffmann:1989:LSM

[HM89] K.-H. Hoffmann and G. H. Meyer. A least squares method for finding the Preisach hysteresis operator from measurements. *Numerische Mathematik*, 55(6): 695–710, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Heuer:1999:ECH

[HMS99] Norbert Heuer, Matthias Maischak, and Ernst P. Stephan. Exponential convergence of the *hp*-version for the boundary element method on open surfaces. *Numerische Mathematik*, 83(4):641–666, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830641.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830641.pdf`.

Houston:1999:PEA

[HMSW99] P. Houston, J. A. Mackenzie, E. Süli, and G. Warnecke. A posteriori error analysis for numerical approximations of Friedrichs systems. *Numerische Mathematik*, 82(3):433–470, May 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082003/90820433.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082003/90820433.pdf`.

Huy:1986:FDA

[HMW86] C. U. Huy, P. J. McKenna, and W. Walter. Finite difference approximations to the Dirichlet problem for elliptic systems. *Numerische Mathematik*, 49(2/3): 227–237, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hackbusch:1989:FMM

[HN89] W. Hackbusch and Z. P. Nowak. On the fast matrix multiplication in the boundary element method by panel clustering. *Numerische Mathematik*, 54 (4):463–491, January 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hanke:1990:PSR

[HN90] Martin Hanke and Michael Neumann. Preconditionings and splittings for rectangular systems. *Numerische Mathematik*, 57(1):85–95, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hu:1992:CTA

[HN92] Xiaohua Hu and R. A. Nicolaides. Covolume techniques for anisotropic media. *Numerische Mathematik*, 61(2): 215–234, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hanke:1995:CAL

[HNS95] Martin Hanke, Andreas Neubauer, and Otmar Scherzer. A convergence analysis of the Landweber iteration for nonlinear ill-posed problems. *Numerische Mathematik*, 72(1):21–37, November 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

URL http://link.springer.de/link/service/journals/00211/bibs/5072001/50720021.htm; http://science.springer.de/nmee/bibs/5072001/50720021.htm.

Hairer:1990:DOE

[HO90a] E. Hairer and A. Ostermann. Dense output for extrapolation methods. *Numerische Mathematik*, 58(4):419–439, November 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ho:1990:TAT

[Ho90b] Diem Ho. Tchebychev acceleration technique for large scale nonsymmetric matrices. *Numerische Mathematik*, 56(7): 721–734, January 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hock:1979:AEM

[Hoc79] Wilhelm Hock. Asymptotic expansions for multistep methods applied to nonlinear Volterra integral equations of the second kind. *Numerische Mathematik*, 33(1):77–100, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hock:1981:EMS

[Hoc81] Wilhelm Hock. An extrapolation method with step size control for nonlinear Volterra integral equations. *Numerische Mathematik*, 38(2):155–178, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hodgkins:1967:RBD

[Hod67] W. R. Hodgkins. On the relation between dynamic relaxation and semi-iterative matrix methods. *Numerische Mathematik*, 9 (5):446–451, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hofmann:1967:AED

[Hof67] Peter Hofmann. Asymptotic expansions of the discretization error of boundary value problems of the Laplace equation in rectangular domains. *Numerische Mathematik*, 9(4):302–322, February 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hoffman:1969:TNT

[Hof69] Karl-Heinz Hoffman. Zur Theorie der nichtlinearen Tschebyscheff-Approximation mit Nebenbedingungen. (German) [Toward a theory of nonlinear Chebyshev approximation with constraints]. *Numerische Mathematik*, 14(1):24–41, December 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hoffmann:1970:NTA

[Hof70] Karl-Heinz Hoffmann. Nichtlineare Tschebyscheff-Approximation mit Nebenbedingungen: Anwendungen. (German) [Nonlin-

ear Chebyshev approximation with constraints: Use]. *Numerische Mathematik*, 14(4): 383–393, March 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hofmann:1975:MHA

[Hof75] Wolf Hofmann. Monotoniesätze für hyperbolische Anfangswertaufgaben und Einschließung von Lösungen. (German) [Monotonicity theorems for hyperbolic initial value problems and solution enclosure]. *Numerische Mathematik*, 24(2): 137–149, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hohn:1982:FEP

[Höh82] W. Höhn. Finite elements for parabolic equations backwards in time. *Numerische Mathematik*, 40(2):207–227, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Homeier:1995:DRJ

[Hom95] Herbert H. H. Homeier. Determinantal representations for the $\mathcal{J}$ transformation. *Numerische Mathematik*, 71(3):275–288, September 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071003/50710275.htm; http://science.springer.de/nmee/bibs/5071003/50710275.htm`.

Hoppe:1981:PMA

[Hop81] Ronald H. W. Hoppe. A penalty method for the approximate solution of stationary Maxwell equations. *Numerische Mathematik*, 36(4):389–403, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hoppe:1986:MMH

[Hop86] Ronald H. W. Hoppe. Multigrid methods for Hamilton–Jacobi–Bellman equations. *Numerische Mathematik*, 49(2/3): 239–254, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hornung:1975:EMN

[Hor75] U. Hornung. Euler method for neutral functional-differential equation. *Numerische Mathematik*, 24(3):233–240, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Householder:1966:STN

[Hou66] A. S. Householder. Separation theorems for normalizable matrices. *Numerische Mathematik*, 9(1):46–50, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Householder:1968:MCR

[Hou68] A. S. Householder. Moments and characteristic roots. II. *Numerische Mathematik*, 11(2):

126–128, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Householder:1971:GAS

[Hou71] A. S. Householder. Generalizations of an algorithm of Sebastião e Silva. *Numerische Mathematik*, 16(4): 375–382, January 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Householder:1973:PGA

[Hou73] A. S. Householder. Postscript to: "Generalizations of an algorithm of Sebastiao e Silva". *Numerische Mathematik*, 20(3): 205–207, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Henrici:1966:TEE

[HP66] Peter Henrici and Pia Pflüger. Truncation error estimates for Stieltjes fractions. *Numerische Mathematik*, 9(2):120–138, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hanson:1975:ANM

[HP75] Richard J. Hanson and James L. Phillips. An adaptive numerical method for solving linear Fredholm integral equations of the first kind. *Numerische Mathematik*, 24(4):291–307, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Haegemans:1976:CCF

[HP76a] Ann Haegemans and Robert Piessens. Construction of cubature formulas of degree eleven for symmetric planar regions, using orthogonal polynomials. *Numerische Mathematik*, 25(2): 139–148, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hansen:1976:EMR

[HP76b] Eldon Hansen and Merrell Patrick. Estimating the multiplicity of a root. *Numerische Mathematik*, 27(1): 121–131, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hansen:1977:FRF

[HP77] Eldon Hansen and Merrell Patrick. A family of root finding methods. *Numerische Mathematik*, 27(3):257–269, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hough:1981:USS

[HP81] D. M. Hough and N. Papamichael. The use of splines and singular functions in an integral equation method for conformal mapping. *Numerische Mathematik*, 37(1): 133–147, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hough:1983:IEM

[HP83] D. M. Hough and N. Papamichael. An integral equation

method for the numerical conformal mapping of interior, exterior and doubly-connected domains. *Numerische Mathematik*, 41(3):287–307, July 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hinrichsen:1992:SVU

[HP92] D. Hinrichsen and A. J. Pritchard. On spectral variations under bounded real matrix perturbations. *Numerische Mathematik*, 60(4): 509–524, January 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hadjidimos:1994:OCS

[HP94] Apostolos Hadjidimos and Robert J. Plemmons. Optimal p-cyclic SOR. *Numerische Mathematik*, 67(4): 475–490, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067004/40670475.htm; http://science.springer.de/nmee/bibs/4067004/40670475.htm`.

Hopkins:1979:KMD

[HR79] T. R. Hopkins and D. E. Roberts. Kufarev's method for determining the Schwarz–Christoffel parameters. *Numerische Mathematik*, 33(4): 353–365, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Halpern:1987:EAA

[HR87] Laurence Halpern and Jeffrey Rauch. Error analysis for absorbing boundary conditions. *Numerische Mathematik*, 51(4): 459–467, August 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hackbusch:1989:ADN

[HR89] W. Hackbusch and A. Reusken. Analysis of a damped nonlinear multilevel method. *Numerische Mathematik*, 55(2): 225–246, May 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Haviv:1994:BEA

[HR94] Moshe Haviv and Ya'acov Ritov. Bounds on the error of an approximate invariant subspace for non-self-adjoint matrices. *Numerische Mathematik*, 67 (4):491–500, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067004/40670491.htm; http://science.springer.de/nmee/bibs/4067004/40670491.htm`.

Halpern:1995:ABC

[HR95] L. Halpern and J. Rauch. Absorbing boundary conditions for diffusion equations. *Numerische Mathematik*, 71(2):

185–224, August 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071002/50710185.htm; http://science.springer.de/nmee/bibs/5071002/50710185.htm`.

Householder:1969:CSI

[HS69] A. S. Householder and G. W. Stewart. Comments on "Some iterations for factoring a polynomial". *Numerische Mathematik*, 13(5):470–471, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Howland:1970:CMS

[HS70] James Lucien Howland and John Albert Senez. A constructive method for the solution of the stability problem. *Numerische Mathematik*, 16(1): 1–7, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hammerlin:1979:EBA

[HS79] Günther Hämmerlin and Larry L. Schumaker. Error bounds for the approximation of Green's kernels by splines. *Numerische Mathematik*, 33(1): 17–22, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hammerlin:1980:PKA

[HS80] Günther Hämmerlin and Larry L. Schumaker. Procedures for kernel approximation and solution of Fredholm integral equations of the second kind. *Numerische Mathematik*, 34(2): 125–141, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hundsdorfer:1981:NSR

[HS81] W. H. Hundsdorfer and M. N. Spijker. A note on B-stability of Runge–Kutta methods. *Numerische Mathematik*, 36(3): 319–331, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hariharan:1983:BEM

[HS83] S. I. Hariharan and E. Stephan. A boundary element method for a two-dimensional interface problem in electromagnetics. *Numerische Mathematik*, 42(3):311–322, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hu:1986:CSS

[HS86] Chiu Li Hu and Larry L. Schumaker. Complete spline smoothing. *Numerische Mathematik*, 49(1):1–10, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hundsdorfer:1990:ACC

[HS90] Willem H. Hundsdorfer and Josef Schneid. An algebraic characterization of B-convergent Runge–Kutta methods. *Numerische Mathematik*,

56(7):695–705, January 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hersch:1991:NIC

[HS91] Joseph Hersch and William Sawyer. Numerical implementation of coherence for the example of the "Swiss cross". *Numerische Mathematik*, 59(7): 659–665, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

He:1992:SPP

[HS92] Bingsheng He and Josef Stoer. Solution of projection problems over polytopes. *Numerische Mathematik*, 61(1):73–90, February 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hackbusch:1997:CFE

[HS97] W. Hackbusch and S. A. Sauter. Composite finite elements for the approximation of PDEs on domains with complicated micro-structures. *Numerische Mathematik*, 75(4):447–472, February 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075004/70750447.htm; http://science.springer.de/nmee/bibs/7075004/70750447.htm`.

Heil:1996:ATR

[HSS96] Christopher Heil, Gilbert Strang, and Vasily Strela. Approximation by translates of refinable functions. *Numerische Mathematik*, 73(1): 75–94, March 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073001/60730075.htm; http://science.springer.de/nmee/bibs/6073001/60730075.htm`.

Hsu:1961:NNI

[Hsu61] L. C. Hsu. Note on the numerical integration of periodic functions and of partially periodic functions. *Numerische Mathematik*, 3:169–173, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hsu:1962:NIN

[Hsu62] L. C. Hsu. On the numerical integration of non-periodic functions of several variables. *Numerische Mathematik*, 4:330–335, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Helton:1991:TPR

[HSY91] J. W. Helton, P. G. Spain, and N. J. Young. Tracking poles and representing Hankel operators directly from data. *Numerische Mathematik*, 58(6): 641–660, January 1991. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Hou:1995:AFE

[HT95] L. Steven Hou and James C. Turner. Analysis and finite element approximation of an optimal control problem in electrochemistry with current density controls. *Numerische Mathematik*, 71(3):289–315, September 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071003/50710289.htm; http://science.springer.de/nmee/bibs/5071003/50710289.htm`.

Huang:1990:MGA

[Hua90] Ziping Huang. A multi-grid algorithm for mixed problems with penalty. *Numerische Mathematik*, 57(3):227–247, May 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hubner:1972:ZUG

[Hüb72] Otto Hübner. Zweiparametrige Überrelaxation. (German) [Two parameter overrelaxation]. *Numerische Mathematik*, 18(4): 354–366, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hubner:1982:ALD

[Hüb82] Otto Hübner. Über die Anzahl der Lösungen der diskreten Theodorsen-Gleichung. (German) [On the number of solutions of the discrete Theodorsen equation]. *Numerische Mathematik*, 39(2):195–204, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Huckle:1998:SGE

[Huc98] Thomas Huckle. Symmetric Gaussian elimination for Cauchy-type matrices with application to positive definite Toeplitz matrices. *Numerische Mathematik*, 79(2): 213–229, April 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079002/80790213.htm; http://science.springer.de/nmee/bibs/8079002/80790213.htm`.

Hulme:1971:PPT

[Hul71] Bernie L. Hulme. Piecewise polynomial Taylor methods for initial value problems. *Numerische Mathematik*, 17(5): 367–381, October 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hunter:1972:SGF

[Hun72] D. B. Hunter. Some Gauss-type formulae for the evaluation of Cauchy principal values of integrals. *Numerische Mathematik*, 19(5):419–424, October 1972. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Hunter:1973:NEC

[Hun73] D. B. Hunter. The numerical evaluation of Cauchy principal values of integrals by Romberg integration. *Numerische Mathematik*, 21(3):185–192, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hundsdorfer:1986:SCL

[Hun86] W. H. Hundsdorfer. Stability and B-convergence of linearly implicit Runge–Kutta methods. *Numerische Mathematik*, 50(1): 83–95, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hiriart-Urruty:1995:SAA

[HUY95] J.-B. Hiriart-Urruty and D. Ye. Sensitivity analysis of all eigenvalues of a symmetric matrix. *Numerische Mathematik*, 70(1): 45–72, March 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070001/50700045.htm; http://science.springer.de/nmee/bibs/5070001/50700045.htm`.

Hageman:1964:BIM

[HV64] L. A. Hageman and R. S. Varga. Block iterative methods for cyclically reduced matrix equations. *Numerische Mathematik*, 6(1):106–119, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Howland:1985:ACI

[HV85] James Lucien Howland and Rémi Vaillancourt. Attractive cycles in the iteration of meromorphic functions. *Numerische Mathematik*, 46(3): 323–337, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hanke:1999:TLP

[HV99] Martin Hanke and Curtis R. Vogel. Two-level preconditioners for regularized inverse problems I: Theory. *Numerische Mathematik*, 83(3):385–402, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830385.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830385.pdf`.

Hofsommer:1963:NCE

[HvdR63] D. J. Hofsommer and R. van de Riet. On the numerical calculation of elliptic integrals of the first and second kind and the elliptic functions of Jacobi. *Numerische Mathematik*, 5(1): 291–302, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Householder:1970:NGI

[HVW70] Alston S. Householder, Richard S. Varga, and James H. Wilkinson. A note on Gerschgorin's inclusion theorem for eigenvalues of matrices. *Numerische Mathematik*, 16(2):141–144, November 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hairer:1976:TNM

[HW76] E. Hairer and G. Wanner. A theory for Nyström methods. *Numerische Mathematik*, 25(4): 383–400, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Henderson:1978:NMS

[HW78] D. S. Henderson and A. Wassyng. A new method for the solution of Ax=b. *Numerische Mathematik*, 29(3):287–289, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hanson:1984:ATG

[HW84] P. M. Hanson and J. E. Walsh. Asymptotic theory of the global error and some techniques of error estimation. *Numerische Mathematik*, 45(1):51–74, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hilali:1987:FSI

[HW87] A. Hilali and A. Wazner. Formes super-irréductibles des systèmes différentiels linéaires. (French) [Superirreducible forms of linear differential systems]. *Numerische Mathematik*, 50(4): 429–449, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Hwang:1999:RAO

[Hwa99] J. S. Hwang. Rational approximation to orthogonal bases and of the solutions of elliptic equations. *Numerische Mathematik*, 81(4):561–575, February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810561.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810561.pdf`.

Iusem:1986:CRA

[ID86] Alfredo N. Iusem and Alvaro Rodolfo De Pierro. Convergence results for an accelerated nonlinear Cimmino algorithm. *Numerische Mathematik*, 49(4):367–378, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Iyengar:1987:SFD

[IJ87] S. R. K. Iyengar and Pragya Jain. Spline finite difference methods for singular two point boundary value problems. *Numerische Mathematik*, 50(3): 363–376, May 1987. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ifantis:1977:LBZ

[IK77] Evangelos K. Ifantis and Christos B. Kouris. Lower bounds for the zeros of analytic functions. *Numerische Mathematik*, 27(2):239–247, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ito:1989:AID

[IK89] K. Ito and F. Kappel. Approximation of infinite delay and Volterra type equations. *Numerische Mathematik*, 54(4): 405–444, January 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ichim:1994:BTM

[IM94] Ion Ichim and Ionel Molnar. A Bairstow's type method for trigonometric polynomials. *Numerische Mathematik*, 67(2): 251–259, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670251.htm; http://science.springer.de/nmee/bibs/4067002/40670251.htm`.

Imhof:1963:MNI

[Imh63] J. P. Imhof. On the method for numerical integration of Clenshaw and Curtis. *Numerische Mathematik*, 5(1):138–141, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

IntHout:1991:SAN

[iS91] K. J. in 't Hout and M. N. Spijker. Stability analysis of numerical methods for delay differential equations. *Numerische Mathematik*, 59(8):807–814, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Iske:1996:SFS

[IS96] Armin Iske and Thomas Sonar. On the structure of function spaces in optimal recovery of point functionals for ENO-schemes by radial basis functions. *Numerische Mathematik*, 74(2):177–201, August 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074002/60740177.htm; http://science.springer.de/nmee/bibs/6074002/60740177.htm`.

Iserles:1984:SLO

[Ise84] A. Iserles. Solving linear ordinary differential equations by exponentials of iterated commutators. *Numerische Mathematik*, 45(2):183–199, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ishihara:1979:MFE

[Ish79] Kazuo Ishihara. On the mixed finite element approximation for

the buckling of plates. *Numerische Mathematik*, 33(2): 195–210, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ishihara:1981:FEL

[Ish81] Kazuo Ishihara. A finite element lumped mass scheme for solving eigenvalue problems of circular arches. *Numerische Mathematik*, 36(3):267–290, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ishihara:1984:MEI

[Ish84a] Kazuo Ishihara. Monotone explicit iterations of the finite element approximations for the nonlinear boundary value problem. *Numerische Mathematik*, 43(3):419–437, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ishihara:1984:NAB

[Ish84b] Kazuo Ishihara. On numerical asymptotic behavior of finite element solutions for parabolic equations. *Numerische Mathematik*, 44(2):285–300, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ishihara:1985:FEL

[Ish85] Kazuo Ishihara. A finite element lumped mass scheme for solving eigenvalue problems of circular arches. II. numerical experiments with Double precision arithmetic. *Numerische Mathematik*, 46(4):499–504, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Israeli:1982:INS

[IU82] Moshe Israeli and Marius Ungarish. Improvement of numerical solution of boundary layer problems by incorporation of asymptotic approximations. *Numerische Mathematik*, 39(3): 309–324, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jackiewicz:1979:CMM

[Jac79] Zdzisław Jackiewicz. Convergence of multistep methods for Volterra functional differential equations. *Numerische Mathematik*, 32(3):307–332, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jackiewicz:1982:AMN

[Jac82] Zdzisław Jackiewicz. Adams methods for neutral functional-differential equations. *Numerische Mathematik*, 39(2): 221–230, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jackiewicz:1984:ASA

[Jac84] Zdzisław Jackiewicz. Asymptotic stability analysis of θ-methods for functional differential equations. *Numerische Mathematik*, 43(3):389–396,

April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jacobsen:1985:RML

[Jac85] Lisa Jacobsen. Repeated modifications of limit k-periodic continued fractions. *Numerische Mathematik*, 47(4): 577–595, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jamet:1970:CFD

[Jam70] Pierre Jamet. On the convergence of finite-difference approximations to one-dimensional singular boundary-value problems. *Numerische Mathematik*, 14(4): 355–378, March 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jarre:1994:NLS

[Jar94] Florian Jarre. A new line-search step based on the Weierstrass $\wp$-function for minimizing a class of logarithmic barrier functions. *Numerische Mathematik*, 68(1): 81–94, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068001/40680081.htm; http://science.springer.de/nmee/bibs/4068001/40680081.htm`.

Jay:1993:CMD

[Jay93] Laurent Jay. Collocation methods for differential-algebraic equations of index 3. *Numerische Mathematik*, 65(4): 407–421, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jai:1992:LPD

[JBC92] M. Jai, G. Bayada, and M. Chambat. The L. P. D. E. M.: a mixed finite difference method for elliptic problems. *Numerische Mathematik*, 63(2):195–211, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jeggle:1968:DKF

[Jeg68] Hansgeorg Jeggle. Zur Diskretisierung einer Klasse Fredholmscher Integralgleichungen mit singulãrem Wert der Ordnung 1. (German) [on the discretisation of a class of Fredholm integral equations with singular values of order 1]. *Numerische Mathematik*, 11(5): 427–443, June 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jeltsch:1973:III

[Jel73] Rolf Jeltsch. Integration of iterated integrals by multistep methods. *Numerische Mathematik*, 21(4):303–316, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jeltsch:1979:SSS

[Jel79] Rolf Jeltsch. A_0-stability and stiff stability of brown's multistep multiderivative methods.

Numerische Mathematik, 32(2): 167–181, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jensen:1991:CPV

[Jen91] Soren Jensen. On computing the pressure by the p version of the finite element method for Stokes problem. *Numerische Mathematik*, 59(6):581–601, September 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jerome:1970:LSM

[Jer70] Joseph W. Jerome. Linear self-adjoint multipoint boundary value problems and related approximation schemes. *Numerische Mathematik*, 15(5): 433–449, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jerome:1985:ANA

[Jer85] Joseph W. Jerome. An adaptive Newton algorithm based on numerical inversion: regularization as postconditioner. *Numerische Mathematik*, 47(1):123–138, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jerome:1989:NMG

[Jer89] Joseph W. Jerome. Newton's method for gradient equations based upon the fixed point map: convergence and complexity study. *Numerische Mathematik*, 55(6):619–632, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jetter:1976:OQS

[Jet76] Kurt Jetter. Optimale Quadraturformeln mit semidefiniten Peano-Kernen. (German) [Optimal integration formulas with semidefinite Peano-kernels]. *Numerische Mathematik*, 25(3): 239–249, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jetter:1984:KAR

[Jet84] Kurt Jetter. Eine kurze Anmerkung zur Romberg-Integration. (German) [A short note on Romberg integration]. *Numerische Mathematik*, 45(2): 275–281, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

JHW:1977:AHA

[JHW77] JHW. Alston S. Householder award (1977)—final notice. *Numerische Mathematik*, 28(1): 120, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jiang:1994:ORP

[Jia94] Hong Jiang. On the orthogonality of residual polynomials of minimax polynomial preconditioning. *Numerische Mathematik*, 67(3): 345–364, April 1994. CODEN NUMMA7. ISSN 0029-599X

(print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4067003/40670345.htm; http://science.springer.de/nmee/bibs/4067003/40670345.htm.

Jia:1998:GBL

[Jia98] Zhongxiao Jia. Generalized block Lanczos methods for large unsymmetric eigenproblems. *Numerische Mathematik*, 80(2): 239–266, August 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8080002/80800239.htm; http://link.springer.de/link/service/journals/00211/papers/8080002/80800239.pdf; http://link.springer.de/link/service/journals/00211/papers/8080002/80800239.ps.gz.

Jeltsch:1978:SPB

[JK78] Rolf Jeltsch and L. Kratz. On the stability properties of Brown's multistep multiderivative methods. *Numerische Mathematik*, 30(1): 25–38, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jager:1991:SPM

[JK91a] Willi Jäger and Jozef Kačur. Solution of porous medium type systems by linear approximation schemes. *Numerische Mathematik*, 60(3):407–427, December 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jeltsch:1991:SFM

[JK91b] Rolf Jeltsch and Peywand Kiani. Stability of a family of multitime-level difference schemes for the advection equation. *Numerische Mathematik*, 60(1):77–95, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jeltsch:1988:CSB

[JKR88] Rolf Jeltsch, Peywand Kiani, and Klaus Raczek. Counterexamples to a stability barrier. *Numerische Mathematik*, 52(3): 301–316, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jamet:1970:MRN

[JLR70] P. Jamet, P. Lascaux, and P.-A. Raviart. Une méthode de résolution numérique des équations de Navier–Stokes. (French) [A method of numerical solution of the Navier–Stokes equations]. *Numerische Mathematik*, 16(2):93–114, November 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Johnson:1978:SEF

[JM78] C. Johnson and B. Mercier. Some equilibrium finite element methods for two-dimensional elasticity problems. *Numerische Mathematik*, 30(1): 103–116, March 1978. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jarausch:1987:SLN

[JM87] Helmut Jarausch and Wolfgang Mackens. Solving large nonlinear systems of equations by an adaptive condensation process. *Numerische Mathematik*, 50(6):633–653, April 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

John:1997:NSD

[JMT97] V. John, J. M. Maubach, and L. Tobiska. Nonconforming streamline-diffusion-finite-element-methods for convection-diffusion problems. *Numerische Mathematik*, 78(2):165–188, December 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078002/70780165.htm; http://science.springer.de/nmee/bibs/7078002/70780165.htm`.

Jeltsch:1981:SET

[JN81] Rolf Jeltsch and Olavi Nevanlinna. Stability of explicit time discretizations for solving initial value problems. *Numerische Mathematik*, 37(1):61–91, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [JN82a].

Jeltsch:1982:EET

[JN82a] R. Jeltsch and O. Nevanlinna. Erratum: "Stability of explicit time discretizations for solving initial value problems" [Numer. Math. **37** (1981), no. 1, 61–91 and MR 82g:65042]. *Numerische Mathematik*, 39(1):155, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [JN81].

Jeltsch:1982:SAT

[JN82b] Rolf Jeltsch and Olavi Nevanlinna. Stability and accuracy of time discretizations for initial value problems. *Numerische Mathematik*, 40(2):245–296, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jeltsch:1986:ASM

[JN86] Rolf Jeltsch and Olavi Nevanlinna. Accuracy and stability of multistage multistep formulas. *Numerische Mathematik*, 48(1):33–83, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jiang:1994:ENI

[JN94] Xun Jiang and Ricardo H. Nochetto. Effect of numerical integration for elliptic obstacle problems. *Numerische Mathematik*, 67(4):501–512, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

URL http://link.springer.de/link/service/journals/00211/bibs/4067004/40670501.htm; http://science.springer.de/nmee/bibs/4067004/40670501.htm.

Johnston:1972:CIR

[JO72] R. L. Johnston and D. D. Olesky. On the computation of inclusion regions for partitioned matrices. *Numerische Mathematik*, 19(3):238–247, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jennings:1974:DEA

[JO74] L. S. Jennings and M. R. Osborne. A direct error analysis for least squares. *Numerische Mathematik*, 22(4):325–332, August 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jittorntrum:1980:SUS

[JO80] Krisorn Jittorntrum and M. R. Osborne. Strong uniqueness and second-order convergence in nonlinear discrete approximation. *Numerische Mathematik*, 34(4):439–455, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jochum:1980:NSI

[Joc80] Peter Jochum. The numerical solution of the inverse Stefan problem. *Numerische Mathematik*, 34(4):411–429, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Johnson:1969:UAV

[Joh69] Lee W. Johnson. Uniform approximation of vector-valued functions. *Numerische Mathematik*, 13(3):238–244, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Johnson:1973:CMF

[Joh73] Claes Johnson. On the convergence of a mixed finite-element method for plate bending problems. *Numerische Mathematik*, 21(1):43–62, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Johnson:1976:FEM

[Joh76] Claes Johnson. On finite element methods for plasticity problems. *Numerische Mathematik*, 26(1):79–84, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Johnson:1977:LCG

[Joh77] Charles R. Johnson. Locally compatible generalized matrix norms. *Numerische Mathematik*, 27(4):391–394, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Joubert:1971:EDAb

[Jou71a] G. R. Joubert. Explicit difference approximations of Du

Fort–Frankel type for the one-dimensional diffusion equation. *Numerische Mathematik*, 18(1): 18–25, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Joubert:1971:EDAa

[Jou71b] G. R. Joubert. Explicit difference approximations of the one-dimensional diffusion equation, using a smoothing technique. *Numerische Mathematik*, 17(5): 409–430, October 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jovanovic:1989:CFD

[Jov89] Boško S. Jovanović. On the convergence of finite-difference schemes for parabolic equations with variable coefficients. *Numerische Mathematik*, 54(4): 395–404, January 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

James:1990:ISA

[JP90] Douglas James and Robert J. Plemmons. An iterative substructuring algorithm for equilibrium equations. *Numerische Mathematik*, 57(6/7):625–633, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Johnston:1970:CBI

[JS70] R. L. Johnston and B. T. Smith. Calculation of best isolated Gerschgorin discs. *Numerische Mathematik*, 16(1):22–31, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Joe:1986:BMS

[JS86] Stephen Joe and Ian H. Sloan. On Bateman's method for second kind integral equations. *Numerische Mathematik*, 49(5): 499–510, September 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jetter:1991:ACI

[JS91] Kurt Jetter and Joachim Stöckler. Algorithms for cardinal interpolation using box splines and radial basis functions. *Numerische Mathematik*, 60(1):97–114, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jbilou:1995:ASV

[JS95] K. Jbilou and H. Sadok. Analysis of some vector extrapolation methods for solving systems of linear equations. *Numerische Mathematik*, 70(1): 73–89, March 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070001/50700073.`

htm; http://science.springer.de/nmee/bibs/5070001/50700073.htm.

[JTW89] **Jacobsen:1989:SOD**

L. Jacobsen, W. J. Thron, and H. Waadeland. Some observations on the distribution of values of continued fractions. *Numerische Mathematik*, 55(6): 711–733, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[JW88] **Jacobsen:1988:CAL**

Lisa Jacobsen and Haakon Waadeland. Convergence acceleration of limit periodic continued fractions under asymptotic side conditions. *Numerische Mathematik*, 53(3): 285–298, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[JY93] **Joe:1993:PCC**

S. Joe and Y. Yan. A piecewise constant collocation method using cosine mesh-grading for Symm's equation. *Numerische Mathematik*, 65(4):423–433, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[Kac76] **Kacewicz:1976:IIM**

Bolesław Kacewicz. An integral-interpolation iterative method for the solution of scalar equations. *Numerische Mathematik*, 26(4):355–365, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[jS99] **Shang:1999:KTS**

Zai jiu Shang. KAM theorem of symplectic algorithms for Hamiltonian systems. *Numerische Mathematik*, 83(3): 477–496, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830477.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830477.pdf.

[JT70] **Jenkins:1970:TSV**

M. A. Jenkins and J. F. Traub. A three-stage variable-shift iteration for polynomial zeros and its relation to generalized Rayleigh iteration. *Numerische Mathematik*, 14(3): 252–263, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[JT76] **Jones:1976:TEA**

William B. Jones and W. J. Thron. Truncation error analysis by means of approximant systems and inclusion regions. *Numerische Mathematik*, 26(2): 117–154, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kacewicz:1984:HIO

[Kac84] B. Z. Kacewicz. How to increase the order to get minimal-error algorithms for systems of ODE. *Numerische Mathematik*, 45(1): 93–104, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kadner:1967:NBI

[Kad67] Horst Kadner. Die numerische Behandlung von Integralgleichungen nach der Kollokationsmethode. (German) [The numerical treatment of integral equations in the collocation method]. *Numerische Mathematik*, 10(3):241–260, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kall:1974:ASP

[Kal74] Peter Kall. Approximations to stochastic programs with complete fixed recourse. *Numerische Mathematik*, 22(4):333–339, August 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kaltenbacher:1998:PPC

[Kal98] Barbara Kaltenbacher. A posteriori parameter choice strategies for some Newton type methods for the regularization of nonlinear ill-posed problems. *Numerische Mathematik*, 79(4): 501–528, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079004/80790501.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790501.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790501.ps.gz`.

Kambo:1971:EBL

[Kam71] N. S. Kambo. Error bounds for the Lobatto and Radau quadrature formulas. *Numerische Mathematik*, 16(5): 383–388, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kansy:1973:EFA

[Kan73] Klaus Kansy. Elementare Fehlerdarstellung für Ableitungen bei der Hermite-Interpolation. (German) [Elementary error representation for derivatives by Hermite interpolation]. *Numerische Mathematik*, 21(4): 350–354, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kanzow:1998:IBM

[Kan98] Christian Kanzow. An inexactQP-based method for nonlinear complementarity problems. *Numerische Mathematik*, 80(4): 557–577, October 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080004/`

80800557.htm; http://link.springer.de/link/service/journals/00211/papers/80800047/80800557.pdf.

Kappert:1996:ZPS

[Kap96] M. Kappert. On the zeros of the partial sums of $\cos(z)$ and $\sin(z)$. *Numerische Mathematik*, 74(4):397–417, October 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074004/60740397.htm; http://science.springer.de/nmee/bibs/6074004/60740397.htm.

Karst:1961:FMZ

[Kar61] E. Karst. Faktorenzerlegung Mersennescher Zahlen mittels programmgesteuerter Rechengeräte. (German) [Factorization of Mersenne numbers with programmable computers]. *Numerische Mathematik*, 3:79–86, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Karamardian:1968:ESC

[Kar68] S. Karamardian. Existence of solutions of certain systems of nonlinear inequalities. *Numerische Mathematik*, 12(4):327–334, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kato:1960:EIM

[Kat60] Tosio Kato. Estimation of iterated matrices, with application to the von Neumann condition. *Numerische Mathematik*, 2 (1):22–29, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kautsky:1981:MRI

[Kau81] Jaroslav Kautský. Matrices related to interpolatory quadratures. *Numerische Mathematik*, 36(3):309–318, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kauthen:1989:CTC

[Kau89] J.-P. Kauthen. Continuous time collocation methods for Volterra–Fredholm integral equations. *Numerische Mathematik*, 56(5):409–424, November 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Koc:1993:FAS

[KC93] Çetin Kaya Koç and Guanrong Chen. A fast algorithm for scalar Nevanlinna–Pick interpolation. *Numerische Mathematik*, 64(1): 115–126, January 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kautsky:1982:CWI

[KE82] J. Kautský and S. Elhay. Calculation of the weights of in-

terpolatory quadratures. *Numerische Mathematik*, 40(3): 407–422, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Keast:1968:TBV

[Kea68] P. Keast. The third boundary value problem for elliptic equations. *Numerische Mathematik*, 12(4):322–326, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kearfott:1979:EDC

[Kea79] Baker Kearfott. An efficient degree-computation method for a generalized method of bisection. *Numerische Mathematik*, 32(2):109–127, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Keller:1965:AFD

[Kel65] Herbert B. Keller. On the accuracy of finite difference approximations to the eigenvalues of differential and integral operators. *Numerische Mathematik*, 7 (5):412–419, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kellogg:1972:CEM

[Kel72] R. B. Kellogg. On compiles eigenvalues of M and P matrices. *Numerische Mathematik*, 19 (2):170–175, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kempfert:1968:SDR

[Kem68] H. Kempfert. On sign determinations in real algebraic number fields. *Numerische Mathematik*, 11(2):170–174, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kemper:1972:LMM

[Kem72] Gene A. Kemper. Linear multistep methods for a class of functional differential equations. *Numerische Mathematik*, 19(5): 361–372, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kerner:1966:GBN

[Ker66] Immo O. Kerner. Ein Gesamtschrittverfahren zur Berechnung der Nullstellen von Polynomen. (German) [A complete step method for the computation of zeros of polynomials]. *Numerische Mathematik*, 8(3):290–294, May 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kesavan:1979:MKA

[Kes79] S. Kesavan. La méthode de Kikuchi appliquée aux équations de von Kármán. (French) [Kikuchi's method applied to von Kármán's equations]. *Numerische Mathematik*, 32(2): 209–232, June 1979. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kesavan:1984:PMB

[Kes84] S. Kesavan. A potential method for the biharmonic equation. *Numerische Mathematik*, 43(1): 105–119, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kikuchi:1981:CPF

[Kik81] Noboru Kikuchi. Convergence of a penalty-finite element approximation for an obstacle problem. *Numerische Mathematik*, 37(1):105–120, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kiluchi:1975:FES

[Kil75] Fumio Kiluchi. On a finite element scheme based on the discrete Kirchhoff assumption. *Numerische Mathematik*, 24(3): 211–231, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kilberth:1978:IBM

[Kil78] K. Kilberth. Iterative Berechnung mehrfacher Lösungen von Hammersteinschen Integralgleichungen. (German) [Iterative calculation of multiple solutions of Hammerstein integral equations]. *Numerische Mathematik*, 29(2):195–207, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kimura:1996:AEC

[Kim96] Masato Kimura. Asymptotic estimation for the condition numbers in BEM. *Numerische Mathematik*, 73(2): 209–233, April 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073002/60730209.htm; http://science.springer.de/nmee/bibs/6073002/60730209.htm`.

Kim:1998:DDI

[Kim98a] Seongjai Kim. Domain decomposition iterative procedures for solving scalar waves in the frequency domain. *Numerische Mathematik*, 79(2): 231–259, April 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079002/80790231.htm; http://science.springer.de/nmee/bibs/8079002/80790231.htm`.

Kim:1998:URI

[Kim98b] Seongjai Kim. On the use of rational iterations and domain decomposition methods for the Helmholtz problem. *Numerische Mathematik*, 79(4): 529–552, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079004/80790529.`

htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790529.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790529.ps.gz.

King:1972:TMN

[Kin72] Richard F. King. Tangent methods for nonlinear equations. *Numerische Mathematik*, 18(4): 298–304, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kincaid:1973:CNI

[Kin73] David R. Kincaid. A class of norms of iterative methods for solving systems of linear equations. *Numerische Mathematik*, 20(5):392–408, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

King:1974:NEB

[Kin74] J. T. King. New error bounds for the penalty method and extrapolation. *Numerische Mathematik*, 23(2):153–165, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

King:1992:MAI

[Kin92] J. Thomas King. Multilevel algorithms for ill-posed problems. *Numerische Mathematik*, 61(3): 311–334, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kioustelidis:1979:DFT

[Kio79] John B. Kioustelidis. A derivative-free transformation preserving the order of convergence of iteration methods in case of multiple zeros. *Numerische Mathematik*, 33(4): 385–389, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kirchgraber:1986:MME

[Kir86] Urs Kirchgraber. Multi-step methods are essentially one-step methods. *Numerische Mathematik*, 48(1):85–90, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kirchgraber:1988:OSB

[Kir88] U. Kirchgraber. An ODE-solver based on the method of averaging. *Numerische Mathematik*, 53(6):621–652, September 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kiwiel:1984:QAM

[Kiw84] Krzysztof C. Kiwiel. A quadratic approximation method for minimizing a class of quasidifferentiable functions. *Numerische Mathematik*, 45(3): 411–430, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kiwiel:1987:CLM

[Kiw87] Krzysztof C. Kiwiel. A constraint linearization method for nondifferentiable convex minimization. *Numerische Mathematik*, 51(4):395–414, August 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kiwiel:1994:CDM

[Kiw94] Krzysztof C. Kiwiel. A Cholesky dual method for proximal piecewise linear programming. *Numerische Mathematik*, 68(3): 325–340, September 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068003/40680325.htm; http://science.springer.de/nmee/bibs/4068003/40680325.htm`.

Kerkhoven:1990:SFE

[KJ90] Thomas Kerkhoven and Joseph W. Jerome. L_∞ stability of finite element approximations to elliptic gradient equations. *Numerische Mathematik*, 57(6/7): 561–575, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Kjellberg:1961:SRM

[Kje61] Göran Kjellberg. On the successive over-relaxation method for cyclic operators. *Numerische Mathematik*, 3:87–91, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kang:1995:VPA

[KjS95] Feng Kang and Zai jiu Shang. Volume-preserving algorithms for source-free dynamical systems. *Numerische Mathematik*, 71(4):451–463, October 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071004/50710451.htm; http://science.springer.de/nmee/bibs/5071004/50710451.htm`.

Knauff:1974:OAL

[KK74] W. Knauff and R. Kreß. Optimale Approximation linearer Funktionale auf periodischen Funktionen. (German) [Optimal approximation of linear functionals on periodic functions]. *Numerische Mathematik*, 22(3): 187–205, June 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Knauff:1976:OAN

[KK76] W. Knauff and R. Kreß. Optimale Approximation mit Nebenbedingungen an lineare Funktionale auf periodischen Funktionen. (German) [Optimal approximation with side conditions to linear functionals on periodic functions]. *Numerische Mathematik*, 25(2):

149–152, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kim:1997:EDC

[KK97] Sang Dong Kim and Seokchan Kim. Exponential decay of C^1-cubic splines vanishing at two symmetric points in each knot interval. *Numerische Mathematik*, 76(4): 479–488, June 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076004/70760479.htm; http://science.springer.de/nmee/bibs/7076004/70760479.htm`.

Kim:1997:FDP

[KKL97] Hong Oh Kim, Sang Dong Kim, and Yong Hun Lee. Finite difference preconditioning cubic spline collocation method of elliptic equations. *Numerische Mathematik*, 77(1): 83–103, July 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077001/70770083.htm; http://science.springer.de/nmee/bibs/7077001/70770083.htm`.

Kulkarni:1983:SCA

[KL83] R. P. Kulkarni and B. V. Limaye. On the steps of convergence of approximate eigenvectors in the Rayleigh–Schrödinger series. *Numerische Mathematik*, 42(1):31–50, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kloeden:1990:NMM

[KL90] P. E. Kloeden and J. Lorenz. A note on multistep methods and attracting sets of dynamical systems. *Numerische Mathematik*, 56(7):667–673, January 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Klee:1965:CLP

[Kle65] Victor Klee. A class of linear programming problems requiring a large number of iterations. *Numerische Mathematik*, 7(4):313–321, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Klee:1966:CPD

[Kle66] Victor Klee. A comparison of primal and dual methods of linear programming. *Numerische Mathematik*, 9(3):227–235, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kleinmichel:1981:QNVa

[Kle81a] Helmut Kleinmichel. Quasi-Newton-Verfahren vom Rang-Eins-Typ zur Lösung unrestringierter Minimierungsprobleme. I. Verfahren und grundlegende Eigenschaften. (German) [Quasi-Newton methods of rank-one type for the solution of un-

constrained minimization problems. I. methods and general properties]. *Numerische Mathematik*, 38(2):219–228, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kleinmichel:1981:QNVb

[Kle81b] Helmut Kleinmichel. Quasi-Newton-Verfahren vom Rang-Eins-Typ zur Lösung unrestringierter Minimierungsprobleme. II. n-Schritt-quadratische Konvergenz für Restart-Varianten. (German) [Quasi-Newton methods of rank-one-type for the solution of unconstrained minimization problems. II. n-step quadratic convergence for restart variants]. *Numerische Mathematik*, 38(2): 229–244, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Klouvcek:1999:RNQ

[Klo99] Petr Klouček. The relaxation of non-quasiconvex variational integrals. *Numerische Mathematik*, 82(2):281–311, April 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082002/90820281.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082002/90820281.pdf`.

Keast:1967:FDS

[KM67] P. Keast and A. R. Mitchell. Finite difference solution of the third boundary problem in elliptic and parabolic equations. *Numerische Mathematik*, 10(1): 67–75, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Krishnakumar:1986:EST

[KM86] A. S. Krishnakumar and Martin Morf. Eigenvalues of a symmetric tridiagonal matrix: a divide-and-conquer approach. *Numerische Mathematik*, 48(3): 349–368, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kunkel:1991:SFM

[KM91] Peter Kunkel and Volker Mehrmann. Smooth factorizations of matrix valued functions and their derivatives. *Numerische Mathematik*, 60(1):115–131, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kunkel:1998:RSN

[KM98] Peter Kunkel and Volker Mehrmann. Regular solutions of nonlinear differential-algebraic equations and their numerical determination. *Numerische Mathematik*, 79(4):581–600, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079004/`

80790581.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790581.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790581.ps.gz.

Kossioris:1999:FVS

[KMS99] G. Kossioris, Ch. Makridakis, and P. E. Souganidis. Finite volume schemes for Hamilton–Jacobi equations. *Numerische Mathematik*, 83 (3):427–442, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830427.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830427.pdf.

Krizek:1984:SPF

[KN84] Michal Křížek and Pekka Neittaanmäki. Superconvergence phenomenon in the finite element method arising from averaging gradients. *Numerische Mathematik*, 45(1):105–116, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Knauer:1971:USE

[Kna71] B. Knauer. Untere Schranken für die Eigenwerte positivdefiniter, selbstadjungierter Operatoren. (German) [Lower bounds for the eigenvalues of positive definite selfadjoint operators]. *Numerische Mathematik*, 17(2):166–171, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Knabner:1985:CSP

[Kna85] Peter Knabner. Control of Stefan problems by means of linear-quadratic defect minimization. *Numerische Mathematik*, 46(3): 429–442, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Knoth:1989:GSG

[Kno89] O. Knoth. A globalization scheme for the generalized Gauss–Newton method. *Numerische Mathematik*, 56(6): 591–607, December 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kroner:1995:CHO

[KNR95] Dietmar Kröner, Sebastian Noelle, and Mirko Rokyta. Convergence of higher order upwind finite volume schemes on unstructured grids for scalar conservation laws in several space dimensions. *Numerische Mathematik*, 71(4):527–560, October 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5071004/50710527.htm; http://science.springer.de/nmee/bibs/5071004/50710527.htm.

Kochengin:1998:DRS

[KO98] Sergey A. Kochengin and Vladimir I. Oliker. Determination of reflector surfaces from near-field scattering data II. Numerical solution. *Numerische Mathematik*, 79(4): 553–568, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079004/80790553.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790553.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790553.ps.gz`.

Kocan:1995:AVS

[Koc95] Maciej Kocan. Approximation of viscosity solutions of elliptic partial differential equations on minimal grids. *Numerische Mathematik*, 72(1):73–92, November 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072001/50720073.htm; http://science.springer.de/nmee/bibs/5072001/50720073.htm`.

Kohaupt:1987:OEE

[Koh87] Ludwig Kohaupt. Optimal L^∞-error estimates for piecewise linear finite elements in $\mathbf{r}^n$ for $1 \leq n \leq 3$. *Numerische Mathematik*, 50(3):353–362, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Koh88].

Kohaupt:1988:EEE

[Koh88] Ludwig Kohaupt. Erratum: "Optimal L^∞-error estimates for piecewise linear finite elements in $\mathbf{R}^n$ for $1 \leq n \leq 3$" [Numer. Math. **50** (1987), no. 3, 353–362 and MR 88i:65131]. *Numerische Mathematik*, 52(5): 604, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Koh87].

Kohler:1995:CAB

[Köh95] P. Köhler. Construction of asymptotically best quadrature formulas. *Numerische Mathematik*, 72(1):93–116, November 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072001/50720093.htm; http://science.springer.de/nmee/bibs/5072001/50720093.htm`.

Kolata:1978:AVP

[Kol78] William G. Kolata. Approximation in variationally posed eigenvalue problems. *Numerische Mathematik*, 29(2): 159–171, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kornhuber:1994:MMM

[Kor94] Ralf Kornhuber. Monotone multigrid methods for elliptic

variational inequalities. I. *Numerische Mathematik*, 69(2): 167–184, December 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4069002/40690167.htm; http://science.springer.de/nmee/bibs/4069002/40690167.htm.

Kornhuber:1996:MMM

[Kor96] Ralf Kornhuber. Monotone multigrid methods for elliptic variational inequalities. II. *Numerische Mathematik*, 72(4): 481–499, February 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6072004/60720481.htm; http://science.springer.de/nmee/bibs/6072004/60720481.htm.

Kosler:1985:FGN

[Kos85] R. Kosler. $W^{m,2}$-Fehlerabschätzungen für Galerkin-Näherungen schwach elliptischer quasilinearer Randwertprobleme $2m$-ter Ordnung. (German) [$W^{m,2}$-error estimates for Galerkin approximations of weakly elliptic quasilinear boundary value problems of order $2m$]. *Numerische Mathematik*, 47(4):597–609, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kosler:1986:PSD

[Kos86] Robert Kosler. A priori-Schranken für diskrete Lösungen monotoner Operatorgleichungen und Anwendungen. (German) [A priori bounds for discrete solutions of monotone operator equations and applications]. *Numerische Mathematik*, 50(1): 45–55, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kossmann:1981:DBP

[Koß81] H. Koßmann. Differenzenverfahren zur Berechnung periodischer Lösungen von hyperbolischen Differentialgleichungen. (German) [Finite difference methods for the computation of periodic solutions of hyperbolic differential equations]. *Numerische Mathematik*, 37(2): 219–233, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Koto:1998:SRI

[Kot98] Toshiyuki Koto. Stability of the Radau IA and Lobatto IIIC methods for delay differential equations. *Numerische Mathematik*, 79(4): 569–580, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079004/80790569.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790569.pdf; http://link.springer.de/link/service/journals/

00211/papers/8079004/80790569.ps.gz.

Koto:1999:SRK

[Kot99] Toshiyuki Koto. Stability of Runge–Kutta methods for the generalized pantograph equation. *Numerische Mathematik*, 84(2):233–247, December 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9084002/90840233.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084002/90840233.pdf.

Konig:1981:KAM

[KP81] Hermann König and Diethard Pallaschke. On Khachian's algorithm and minimal ellipsoids. *Numerische Mathematik*, 36(2):211–223, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kratz:1990:NAS

[KP90] W. Kratz and A. Peyerimhoff. A numerical algorithm for the Stokes problem based on an integral equation for the pressure via conformal mappings. *Numerische Mathematik*, 58(3):255–272, October 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kunisch:1991:ETS

[KP91] K. Kunisch and G. Peichl. Estimation of a temporally and spatially varying diffusion coefficient in a parabolic system by an augmented Lagrangian technique. *Numerische Mathematik*, 59(5):473–509, August 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kim:1995:PCS

[KP95] Sang Dong Kim and Seymour V. Parter. Preconditioning cubic spline collocation — discretizations of elliptic equations. *Numerische Mathematik*, 72(1):39–72, November 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5072001/50720039.htm; http://science.springer.de/nmee/bibs/5072001/50720039.htm.

Kaps:1979:GRK

[KR79] Peter Kaps and Peter Rentrop. Generalized Runge–Kutta methods of order four with stepsize control for stiff ordinary differential equations. *Numerische Mathematik*, 33(1):55–68, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Korner:1982:ELB

[KR82] Frank Körner and Claus Richter. Zur effektiven Lösung von booleschen, quadratischen Optimierungsproblemen. (German) [On the efficient solution of Boolean quadratic programming

problems]. *Numerische Mathematik*, 40(1):99–109, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kannan:1984:MIM

[KR84] R. Kannan and M. B. Ray. Monotone iterative methods for nonlinear equations involving a noninvertible linear part. *Numerische Mathematik*, 45(2): 219–225, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Karlsen:1997:OSM

[KR97] Kenneth Hvistendahl Karlsen and Nils Henrik Risebro. An operator splitting method for nonlinear convection-diffusion equations. *Numerische Mathematik*, 77(3):365–382, September 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077003/70770365.htm; http://science.springer.de/nmee/bibs/7077003/70770365.htm`.

Kranzer:1963:EFN

[Kra63] H. C. Kranzer. An error formula for numerical differentiation. *Numerische Mathematik*, 5(1):439–442, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=5&issue=1&spage=439`.

Krabs:1968:LOH

[Kra68] Werner Krabs. Lineare Optimierung in halbgeordneten Vektorräumen. (German) [Linear optimization in half-ordered vector spaces]. *Numerische Mathematik*, 11(3):220–231, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kraaijevanger:1986:AMP

[Kra86] J. F. B. M. Kraaijevanger. Absolute monotonicity of polynomials occurring in the numerical solution of initial value problems. *Numerische Mathematik*, 48(3):303–322, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kratzschmar:1989:DDA

[Krä89] Michael Krätzschmar. A decomposition-dualization approach for solving constrained convex minimization problems with applications to discretized obstacle problems. *Numerische Mathematik*, 54(5): 507–531, February 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kreiss:1959:DHG

[Kre59] Heinz-Otto Kreiss. Über die Differenzapproximation hoher Genauigkeit bei Anfangswertproblemen für partielle Dif-

ferentialgleichungen. (German) [on the difference approximation of higher accuracy with initial value problems for partial differential equations]. *Numerische Mathematik*, 1(1):186–202, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=186`.

Kreiss:1963:UID

[Kre63] Heinz-Otto Kreiss. Über implizite Differenzmethoden für partielle Differentialgleichungen. (German) [On implicit difference methods for partial differential equations]. *Numerische Mathematik*, 5(1):24–47, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kreiss:1968:NSS

[Kre68] Heinz-Otto Kreiss. On the numerical solution of the spherically symmetric diffusion equation. *Numerische Mathematik*, 12(3):223–225, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kress:1971:ART

[Kre71] Rainer Kreß. Ein ableitungsfreies Restglied für die trigonometrische Interpolation periodischer analytischer Funktionen. (German) [A derivative-free residue for the trigonometric interpolation of periodic analytic functions]. *Numerische Mathematik*, 16(5):389–396, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kress:1972:GHT

[Kre72a] Rainer Kreß. On general Hermite trigonometric interpolation. *Numerische Mathematik*, 20(2):125–138, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kress:1972:NIP

[Kre72b] Rainer Kreß. Zur numerischen Integration periodischer Funktionen nach der Rechteckregel. (German) [On the numerical integration of periodic functions by the trapezoidal rule]. *Numerische Mathematik*, 20(1):87–92, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kress:1990:NMB

[Kre90] Rainer Kress. A Nyström method for boundary integral equations in domains with corners. *Numerische Mathematik*, 58(2):145–161, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kripke:1964:BAR

[Kri64] Bernard R. Kripke. Best approximation with respect to nearby norms. *Numerische*

Mathematik, 6(1):103–105, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Krishna:1983:SNR

[Kri83] Lala B. Krishna. Some new results on unsymmetric successive overrelaxation method. *Numerische Mathematik*, 42(2): 155–160, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kammerer:1974:QIS

[KRV74] W. J. Kammerer, G. W. Reddien, and R. S. Varga. Quadratic interpolatory splines. *Numerische Mathematik*, 22(4): 241–259, August 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kiyono:1971:BCS

[KS71] Takeshi Kiyono and Masaaki Shimasaki. Boundary contraction solution of the Neumann and mixed boundary value problems of the Laplace equation. *Numerische Mathematik*, 16(5): 442–450, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kreisselmeier:1973:AZI

[KS73] Gerhard Kreisselmeier and Dietrich Suschowk. Ein Algorithmus zur zyklisch invarianten Zerlegung eines endlichdimensionalen Vektorraums bezüglich einer linearen Selbstabbildung. (German) [An algorithm for the cyclic invariant decompositions of a finite-dimensional vector space with respect to linear endomorphism]. *Numerische Mathematik*, 22(1):69–74, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kress:1983:CNB

[KS83] R. Kreß and W. T. Spassov. On the condition number of boundary integral operators for the exterior Dirichlet problem for the Helmholtz equation. *Numerische Mathematik*, 42(1):77–95, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kelley:1989:PQN

[KS89] C. T. Kelley and E. W. Sachs. A pointwise quasi-Newton method for unconstrained optimal control problems. *Numerische Mathematik*, 55(2):159–176, May 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kraaijevanger:1991:USR

[KS91] J. F. B. M. Kraaijevanger and J. Schneid. On the unique solvability of the Runge–Kutta equations. *Numerische Mathematik*, 59(2):129–157, May 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kerkhoven:1992:AMC

[KS92] T. Kerkhoven and Y. Saad. On acceleration methods for coupled nonlinear elliptic systems. *Numerische Mathematik*, 60(4): 525–548, January 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kress:1993:NSL

[KS93] Rainer Kreß and Ian H. Sloan. On the numerical solution of a logarithmic integral equation of the first kind for the Helmholtz equation. *Numerische Mathematik*, 66(2):199–214, November 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Khoromskij:1998:FIS

[KS98] B. N. Khoromskij and G. Schmidt. A fast interface solver for the biharmonic Dirichlet problem on polygonal domains. *Numerische Mathematik*, 78(4):577–596, February 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078004/70780577.htm; http://science.springer.de/nmee/bibs/7078004/70780577.htm`.

Klawonn:1999:BTP

[KS99] Axel Klawonn and Gerhard Starke. Block triangular preconditioners for nonsymmetric saddle point problems: field-of-values analysis. *Numerische Mathematik*, 81(4):577–594, February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810577.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810577.pdf`.

Kschwendt:1968:CLM

[Ksc68] H. Kschwendt. Convergence limits in the Monte Carlo theory of integral equations. *Numerische Mathematik*, 11(4): 307–314, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kreyszig:1959:RUE

[KT59] Erwin Kreyszig and John Todd. The radius of univalence of the error function. *Numerische Mathematik*, 1:78–89, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kuenzi:1965:DA

[KT65] H. P. Kuenzi and H. Tzschach. The duoplex-algorithm. *Numerische Mathematik*, 7(3):222–225, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kublanovskaya:1984:AMS

[Kub84] V. N. Kublanovskaya. *AB*-algorithm and its modifications for the spectral problems of linear pencils of matrices. *Nu-*

merische Mathematik, 43(3): 329–342, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kuhn:1993:AEU

[Kuh93] Dieter Kuhn. About existence and uniqueness of the restricted total least squares estimation. *Numerische Mathematik*, 65(4): 435–444, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kulisch:1968:RZM

[Kul68] U. Kulisch. Über reguläre Zerlegungen von Matrizen und einige Anwendungen. (German) [On regular dismantlings of stencils and some applications]. *Numerische Mathematik*, 11(5): 444–449, June 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kulisch:1971:AAR

[Kul71] U. Kulisch. An axiomatic approach to rounded computations. *Numerische Mathematik*, 18(1):1–17, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kung:1974:CRP

[Kun74] H. T. Kung. On computing reciprocals of power series. *Numerische Mathematik*, 22(5): 341–348, October 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kupka:1971:SRA

[Kup71] I. Kupka. Simulation reeller Arithmetik und reeller Funktionen in endlichen Mengen. (German) [Simulation of real arithmetic and real functions in finite sets]. *Numerische Mathematik*, 17(2):143–152, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kupper:1976:EGD

[Küp76a] Tassilo Küpper. Einschließungsaussagen für gewönliche Differentialoperatoren. (German) [Range-domain implications for ordinary differential operators]. *Numerische Mathematik*, 25(2): 201–214, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kupper:1976:PLU

[Küp76b] Tassilo Küpper. Pointwise lower and upper bounds for eigenfunctions of ordinary differential operators. *Numerische Mathematik*, 27(1):111–119, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kupper:1978:EDZ

[Küp78] Tassilo Küpper. Einschließungsaussagen bei Differentialoperatoren zweiter Ordnung durch punktweise Ungleichungen. (German) [Range-domain implications for second order differential operators using pointwise inequalities]. *Numerische Mathematik*, 30(1):93–101, March

1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kuttler:1971:FAE

[Kut71] James R. Kuttler. A finite-difference approximation for the eigenvalues of the clamped plate. *Numerische Mathematik*, 17(3):230–238, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kutt:1975:NEP

[Kut75] H. R. Kutt. The numerical evaluation of principal value integrals by finite-part integration. *Numerische Mathematik*, 24(3): 205–210, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kutz:1982:MIQ

[Küt82] Martin Kütz. Monotony in interpolatory quadratures. *Numerische Mathematik*, 39(3): 421–428, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kammerer:1972:ABN

[KV72] W. J. Kammerer and R. S. Varga. On asymptotically best norms for powers of operators. *Numerische Mathematik*, 20(2): 93–98, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kesavan:1985:SBE

[KV85] S. Kesavan and A. S. Vasudevamurthy. On some boundary element methods for the heat equation. *Numerische Mathematik*, 46(1):101–120, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Klee:1977:LAT

[KvdD77] Victor Klee and Pauline van den Driessche. Linear algorithms for testing the sign stability of a matrix and for finding Z-matrix matchings an acyclic graphs. *Numerische Mathematik*, 28(3): 273–285, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kaps:1981:SRT

[KW81] P. Kaps and G. Wanner. A study of Rosenbrock-type methods of high order. *Numerische Mathematik*, 38(2): 279–298, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Knowles:1995:VMN

[KW95] Ian Knowles and Robert Wallace. A variational method for numerical differentiation. *Numerische Mathematik*, 70(1):91–110, March 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/`

00211/bibs/5070001/50700091.htm; http://science.springer.de/nmee/bibs/5070001/50700091.htm.

Khoromskij:1996:RIM

[KW96] B. N. Khoromskij and G. Wittum. Robust iterative methods for elliptic problems with highly varying coefficients in thin substructures. *Numerische Mathematik*, 73(4): 449–472, June 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6073004/60730449.htm; http://science.springer.de/nmee/bibs/6073004/60730449.htm.

Khoromskij:1999:AOS

[KW99] Boris N. Khoromskij and Gabriel Wittum. An asymptotically optimal Schur complement reduction for the Stokes equation. *Numerische Mathematik*, 81(3):345–375, January 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/9081003/90810345.htm; http://link.springer.de/link/service/journals/00211/papers/9081003/90810345.pdf.

Kowalski:1985:GQO

[KWW85] M. A. Kowalski, A. G. Werschulz, and H. Woźniakowski. Is Gauss quadrature optimal for analytic functions? *Numerische Mathematik*, 47(1):89–98, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kedem:1974:TGL

[KZ74] Gershon Kedem and S. K. Zaremba. A table of good lattice points in three dimensions. *Numerische Mathematik*, 23(2): 175–180, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kocvara:1994:ITS

[KZ94] Michal Kočvara and Jochem Zowe. An iterative two-step algorithm for linear complementarity problems. *Numerische Mathematik*, 68(1): 95–106, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4068001/40680095.htm; http://science.springer.de/nmee/bibs/4068001/40680095.htm.

LopezdeSilanes:1988:EEA

[LA88] M. C. López de Silanes and D. Apprato. Estimations de l'erreur d'approximation sur un domaine borné de $\mathbf{r}^n$ par D^m-splines d'interpolation et d'ajustement discrètes. (French) [Approximation error estimates on a bounded domain in $\mathbf{r}^n$ for interpolating and smoothing discrete D^m-splines]. *Numerische Mathematik*, 53(3):

367–376, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LopezdeSilanes:1989:EEA

[LA89] M. C. López de Silanes and R. Arcangéli. Estimations de l'erreur d'approximation par splines d'interpolation et d'ajustement d'ordre (m, s). (French) [Approximation error estimates for interpolating and smoothing (m, s)-splines]. *Numerische Mathematik*, 56(5): 449–467, November 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lu:1997:CAB

[LA97] Hao Lu and Owe Axelsson. Conditioning analysis of block incomplete factorizations and its application to elliptic equations. *Numerische Mathematik*, 78(2):189–209, December 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078002/70780189.htm; http://science.springer.de/nmee/bibs/7078002/70780189.htm`.

Lafon:1975:BTM

[Laf75] Jean-Claude Lafon. Base tensorielle de matrices de Hankel (ou de Toeplitz): Applications. (French) [Tensorial bases of Hankel (or Toeplitz) matrices applications]. *Numerische Mathematik*, 23(4):349–361, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lamprecht:1970:AFR

[Lam70] Günther Lamprecht. Über die Abhängigkeit der Fehlerfunktion bei der rationale L_p-Approximation von den Koeffizienten des Nennerpolynoms bei minimalem Zählerpolynom. (German) [On the relation between the error function with rational L_p approximation and the coefficients of the denominator polynomial with minimum numerator polynomial]. *Numerische Mathematik*, 15(5): 392–403, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lambert:1980:ACM

[Lam80] Joseph M. Lambert. An alternative computational method for the approximation of random functions. *Numerische Mathematik*, 35(4):361–368, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lamour:1991:WPS

[Lam91] René Lamour. A well-posed shooting method for transferable DAE's. *Numerische Mathematik*, 59(8):815–829, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lancaster:1964:ALM

[Lan64a] P. Lancaster. Algorithms for lambda-matrices. *Numerische Mathematik*, 6(1):388–394, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lancaster:1964:EMD

[Lan64b] P. Lancaster. On eigenvalues of matrices dependent on a parameter. *Numerische Mathematik*, 6(1):377–387, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lancaster:1966:EAN

[Lan66] P. Lancaster. Error analysis for the Newton–Raphson method. *Numerische Mathematik*, 9(1): 55–68, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lancaster:1972:NSM

[Lan72] P. Lancaster. A note on sub-multiplicative norms. *Numerische Mathematik*, 19(3): 206–208, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Langford:1977:NSB

[Lan77] W. F. Langford. Numerical solution of bifurcation problems for ordinary differential equations. *Numerische Mathematik*, 28(2):171–190, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Langer:1987:NLE

[Lan87] Ulrich Langer. Zur numerischen Lösung des ersten biharmonischen Randwertproblems. (German) [On the numerical solution of the first biharmonic boundary value problem]. *Numerische Mathematik*, 50(3): 291–310, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Larkin:1981:RFD

[Lar81] F. M. Larkin. Root finding by divided differences. *Numerische Mathematik*, 37(1):93–104, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lasiecka:1992:CRA

[Las92] Irena Lasiecka. Convergence rates for the approximations of the solutions to algebraic Riccati equations with unbounded coefficients: case of analytic semigroups. *Numerische Mathematik*, 63(3):357–390, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lauchli:1961:JEA

[Läu61] Peter Läuchli. Jordan-Elimination und Ausgleichung nach kleinsten Quadraten. (German) [Jordan elimination and balancing using least squares]. *Numerische Mathematik*, 3:226–240, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Laurent:1967:TCM

[Lau67] P. J. Laurent. Théorèmes de caractérisation d'une meilleure approximation dans un espace norme et généralisation de l'algorithme de Remes. (French) [Theorems for characterizing the best approximation in a normed space and generalization of the Remes algorithm]. *Numerische Mathematik*, 10(3):190–208, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Laubin:1998:HOC

[Lau98] Pascal Laubin. High order convergence for collocation of second kind boundary integral equations on polygons. *Numerische Mathematik*, 79(1): 107–140, March 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079001/80790107.htm; http://science.springer.de/nmee/bibs/8079001/80790107.htm`.

Lawson:1964:CPS

[Law64] Ch.L. Lawson. Characteristic properties of the segmented rational minmax approximation problem. *Numerische Mathematik*, 6(1):293–301, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Liu:1997:DRH

[LB97] Kang-Man Liu and Ivo Babuška. Dimensional reduction for Helmholtz's equation on a bounded domain. *Numerische Mathematik*, 77(4): 501–533, October 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077004/70770501.htm; http://science.springer.de/nmee/bibs/7077004/70770501.htm`.

Lou:1998:OSC

[LBF98] Zhou-Ming Lou, Bernard Bialecki, and Graeme Fairweather. Orthogonal spline collocation methods for biharmonic problems. *Numerische Mathematik*, 80(2):267–303, August 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080002/80800267.htm; http://link.springer.de/link/service/journals/00211/papers/8080002/80800267.pdf; http://link.springer.de/link/service/journals/00211/papers/8080002/80800267.ps.gz`.

Lyness:1993:QEE

[LdD93] J. N. Lyness and E. de Doncker. Quadrature error expansions. II. the full corner singularity. *Numerische Mathematik*, 64 (3):355–370, March 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LeRoux:1980:MMP

[Le 80a] Marie-Noëlle Le Roux. Méthodes multipas pour des équations paraboliques non linéaires. (French) [Multipass methods for nonlinear parabolic equations]. *Numerische Mathematik*, 35(2): 143–162, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LeTallec:1980:MFE

[Le 80b] P. Le Tallec. A mixed finite element approximation of the Navier–Stokes equations. *Numerische Mathematik*, 35(4): 381–404, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LeTallec:1982:EAR

[Le 82] P. Le Tallec. Existence and approximation results for nonlinear mixed problems: application to incompressible finite elasticity. *Numerische Mathematik*, 38 (3):365–382, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lipitakis:1981:RCA

[LE81] Elias A. Lipitakis and David J. Evans. The rate of convergence of an approximate matrix factorization semi-direct method. *Numerische Mathematik*, 36(3): 237–251, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lebaud:1970:LDA

[Leb70] Colette Lebaud. L'algorithm double QR avec <<shift>>. (French) [The double QR algorithm with 'shift']. *Numerische Mathematik*, 16(2): 163–180, November 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lees:1961:ADS

[Lee61] Milton Lees. Alternating direction and semi-explicit difference methods for parabolic partial differential equations. *Numerische Mathematik*, 3(1): 398–412, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=398`.

Legras:1966:RNG

[Leg66] J. Legras. Résolution numérique des grands systèmes différentiels linéaires. (French) [Numerical solution of large systems of linear differentials]. *Numerische Mathematik*, 8(1):14–28, March 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lehmann:1960:FRV

[Leh60] N. J. Lehmann. Eine Fehlerabschätzung zum Ritzschen Verfahren für inhomogene Randwertaufgaben. (German) [An error bound for the Ritz method

for inhomogeneous boundary value problems]. *Numerische Mathematik*, 2(1):60–66, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lehmann:1961:INR

[Leh61] N. J. Lehmann. Das inhomogene natürliche Randwertproblem und Fehlerabschätzungen für Näherungslösungen. (German) [The inhomogeneous natural boundary value problem and error bounds for approximate solution]. *Numerische Mathematik*, 3:1–29, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lehmann:1963:OE

[Leh63] N. J. Lehmann. Optimale Eigenwerteinschliessungen. (German) [Optimal eigenvalue inclusion]. *Numerische Mathematik*, 5(1): 246–272, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lehmann:1966:VOE

[Leh66] N. J. Lehmann. Zur Verwendung optimaler Eigenwerteingrenzungen bei der Lösung symmetrischer Matrizenaufgaben. (German) [On the use of optimal eigenvalue enclosure for the solution of symmetric matrix problems]. *Numerische Mathematik*, 8(1):42–55, March 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lehmann:1967:FND

[Leh67] N. J. Lehmann. Fehlerschranken für Näherungslösungen bei Differentialgleichungen. (German) [Error bounds for approximate solutions of differential equations]. *Numerische Mathematik*, 10(3):261–288, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Leipnik:1971:RCR

[Lei71] R. B. Leipnik. Rapidly convergent recursive solution of quadratic operator equations. *Numerische Mathematik*, 17(1): 1–16, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lemou:1998:MEF

[Lem98] M. Lemou. Multipole expansions for the Fokker–Planck–Landau operator. *Numerische Mathematik*, 78(4):597–618, February 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078004/70780597.htm; http://science.springer.de/nmee/bibs/7078004/70780597.htm`.

Lenferink:1989:CPE

[Len89] H. W. J. Lenferink. Contractivity preserving explicit linear multistep methods. *Numerische Mathematik*, 55(2):

213–223, May 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lesaint:1973:FEM

[Les73] P. Lesaint. Finite element methods for symmetric hyperbolic equations. *Numerische Mathematik*, 21(3):244–255, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Levin:1982:OQF

[Lev82] Moshe Levin. Optimal quadrature formula of Markov's and Locher's type with weight function. *Numerische Mathematik*, 40(1):31–37, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Levrie:1989:IMC

[Lev89] Paul Levrie. Improving a method for computing non-dominant solutions of certain second-order recurrence relations of Poincaré-type. *Numerische Mathematik*, 56(5): 501–512, November 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lewin:1971:EPM

[Lew71] Mordechai Lewin. On exponents of primitive matrices. *Numerische Mathematik*, 18(2): 154–161, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lewis:1982:ITM

[Lew82] Jerry W. Lewis. Inversion of tridiagonal matrices. *Numerische Mathematik*, 38(3): 333–345, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Leyk:1986:CLM

[Ley86] Zbigniew Leyk. A C^0-collocation-like method for two-point boundary value problems. *Numerische Mathematik*, 49(1): 39–53, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Leyk:1990:GMO

[Ley90] Zbigniew Leyk. Galerkin method and optimal error algorithms in Hilbert spaces. *Numerische Mathematik*, 57(1): 1–14, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LaBudde:1976:EMCa

[LG76a] Robert A. LaBudde and Donald Greenspan. Energy and momentum conserving methods of arbitrary order for the numerical integration of equations of motion. I. motion of a single particle. *Numerische Mathematik*, 25(4):323–346, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LaBudde:1976:EMCb

[LG76b] Robert A. LaBudde and Donald Greenspan. Energy and mo-

mentum conserving methods of arbitrary order for the numerical integration of equations of motion. II. motion of a system of particles. *Numerische Mathematik*, 26(1):1–16, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lyness:1982:QQR

[LG82] J. N. Lyness and Luigi Gatteschi. On quasidegree quadrature rules. *Numerische Mathematik*, 39(2):259–267, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lieu:1966:MCE

[LH66] Bui Trong Liêü and P. Huard. La méthode des centres dans un espace topologique. (French) [The method of centers in a topological space]. *Numerische Mathematik*, 8(1):56–67, March 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lou:1988:PPM

[LH88] Gang Lou and Shih-Ping Han. A parallel projection method for solving generalized linear least-squares problems. *Numerische Mathematik*, 53(3): 255–264, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Li:1986:NCM

[Li86] Zi-Cai Li. A nonconforming combined method for solving Laplace's boundary value problems with singularities. *Numerische Mathematik*, 49(5): 475–497, September 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Li87].

Li:1987:ENC

[Li87] Zi-Cai Li. Erratum: "A nonconforming combined method for solving Laplace's boundary value problems with singularities". *Numerische Mathematik*, 51(5):597, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Li86].

Li:1990:DTB

[Li90] Likang Li. Discretization of the Timoshenko beam problem by the p and the h-p versions of the finite element method. *Numerische Mathematik*, 57(4): 413–420, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Li:1995:NMC

[Li95] Zhiping Li. A numerical method for computing singular minimizers. *Numerische Mathematik*, 71(3):317–330, September 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071003/50710317.htm; http://science.springer.de/nmee/bibs/5071003/50710317.htm`.

Li:1997:SNA

[Li97] Zhiping Li. Simultaneous numerical approximation of microstructures and relaxed minimizers. *Numerische Mathematik*, 78(1):21–38, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078001/70780021.htm; http://science.springer.de/nmee/bibs/7078001/70780021.htm`.

Lie:1990:SFM

[Lie90] Ivar Lie. The stability function for multistep collocation methods. *Numerische Mathematik*, 57(8):779–787, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Light:1990:CSC

[Lig90] W. A. Light. The Chebyshev solution of certain matrix equations. *Numerische Mathematik*, 57(8):789–803, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Liniger:1961:MDH

[Lin61] Werner Liniger. On a method by D. H. Lehmer for the generation of pseudo random numbers. *Numerische Mathematik*, 3:265–270, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lindenberg:1962:UDG

[Lin62] Wolfgang Lindenberg. Über eine Darstellung von Gruppenelementen in digitalen Rechenautomaten. (German) [On a representation of group elements in computers]. *Numerische Mathematik*, 4:151–153, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Linz:1975:CDM

[Lin75] Peter Linz. Convergence of a discretization method for integro-differential equations. *Numerische Mathematik*, 25(1): 103–107, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Linden:1976:OSE

[Lin76] Hanjörg Linden. Obere Schranken für Eigenwerte von Eigenwertaufgaben der Form $(\lambda^2 - \lambda A - B)x = 0$. (German) [Upper bounds for eigenvalues of quadratic eigenvalue problems of the forms $(\lambda^2 \lambda A - B)x = 0$]. *Numerische Mathematik*, 26(1): 17–26, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lindae:1993:SMD

[Lin93] Andreas Lindae. On shooting methods for the discrete Helmholtz equation with constant coefficients. *Numerische Mathematik*, 64(1): 127–145, January 1993. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Liu:1995:SAM

[Liu95] Yunkang Liu. Stability analysis of θ-methods for neutral functional-differential equations. *Numerische Mathematik*, 70(4):473–485, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070004/50700473.htm; http://science.springer.de/nmee/bibs/5070004/50700473.htm`.

Liu:1996:IEN

[Liu96] Xiaobo Liu. Interior estimates for nonconforming finite element methods. *Numerische Mathematik*, 74(1): 49–67, July 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074001/60740049.htm; http://science.springer.de/nmee/bibs/6074001/60740049.htm`.

Lyness:1978:GFS

[LK78] J. N. Lyness and P. Keast. On p-generator fully symmetric quadrature rules. *Numerische Mathematik*, 30(1):51–63, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lin:1980:EMF

[LL80] Qun Lin and Jia Quan Liu. Extrapolation method for Fredholm integral equations with non-smooth kernels. *Numerische Mathematik*, 35(4): 459–464, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Laydi:1985:EFR

[LL85] M. Laydi and P. Lesaint. Sur les éléments finis rationnels de Serendip de degré quelconque. (French) [On rational Serendip finite elements of arbitrary degree]. *Numerische Mathematik*, 46(2):175–187, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lorentz:1990:BHI

[LL90] G. G. Lorentz and R. A. Lorentz. Bivariate Hermite interpolation and applications to algebraic geometry. *Numerische Mathematik*, 57(6/7): 669–680, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Laghchim-Lahlou:1995:QFE

[LLS95] M. Laghchim-Lahlou and P. Sablonnière. Quadrilateral finite elements of FVS type and class C^ρ. *Numerische Mathematik*, 70(2):

229–243, April 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5070002/50700229.htm; http://science.springer.de/nmee/bibs/5070002/50700229.htm.

Lawton:1998:CMC

[LLS98] W. Lawton, S. L. Lee, and Zuowei Shen. Convergence of multidimensional cascade algorithm. *Numerische Mathematik*, 78(3):427–438, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7078003/70780427.htm; http://science.springer.de/nmee/bibs/7078003/70780427.htm.

Lyness:1966:VMS

[LM66] J. N. Lyness and C. B. Moler. Van der Monde systems and numerical differentiation. *Numerische Mathematik*, 8(5):458–464, August 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lyness:1969:GRM

[LM69] J. N. Lyness and C. B. Moler. Generalized Romberg methods for integrals of derivatives. *Numerische Mathematik*, 14(1):1–13, December 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lyness:1970:RTD

[LM70] J. N. Lyness and B. J. J. McHugh. On the remainder term in the N-dimensional Euler Maclaurin expansion. *Numerische Mathematik*, 15(4):333–344, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lightbourne:1975:PSF

[LM75] J. H. Lightbourne, III and R. H. Martin, Jr. Projection seminorms and the field of values of linear operators. *Numerische Mathematik*, 24(2):151–161, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Louis:1991:SPM

[LM91] A. K. Louis and P. Maaß. Smoothed projection methods for the moment problem. *Numerische Mathematik*, 59(3):277–294, June 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lu:1998:FEM

[LM98] Hao Lu and Joseph Maubach. A finite element method and variable transformations for a forward-backward heat equation. *Numerische Mathematik*, 81(2):249–272, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8081002/80810249.htm; http://link.

springer.de/link/service/journals/00211/papers/8081002/80810249.pdf.

Li:1999:LTA

[LM99] Chi-Kwong Li and Roy Mathias. The Lidskii-Mirsky-Wielandt theorem — additive and multiplicative versions. *Numerische Mathematik*, 81(3):377–413, January 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/9081003/90810377.htm; http://link.springer.de/link/service/journals/00211/papers/9081003/90810377.pdf.

Laval:1994:PAU

[LMGR94] G. Laval, S. Mas-Gallic, and P.-A. Raviart. Paraxial approximation of ultrarelativistic intense beams. *Numerische Mathematik*, 69(1):33–60, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4069001/40690033.htm; http://science.springer.de/nmee/bibs/4069001/40690033.htm.

Li:1985:RRR

[LMPY85] Tien-Yien Li, John Mallet-Paret, and James A. Yorke. Regularity results for real analytic homotopies. *Numerische Mathematik*, 46(1):43–50, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Layton:1995:PAM

[LMR95] William J. Layton, Joseph M. Maubach, and Patrick J. Rabier. Parallel algorithms for maximal monotone operators of local type. *Numerische Mathematik*, 71(1):29–58, July 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5071001/50710029.htm; http://science.springer.de/nmee/bibs/5071001/50710029.htm.

Ling:1977:CPA

[LMS77] William H. Ling, Harry W. McLaughlin, and Mary Lynn Smith. A computational procedure for the approximation of random functions. *Numerische Mathematik*, 27(3):301–305, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lazarov:1984:CDS

[LMW84] Rajčo D. Lazarov, Vladimir L. Makarov, and Wilfried Weinelt. On the convergence of difference schemes for the approximation of solutions $u \in W_2^m$ ($m > 0.5$) of elliptic equations with mixed derivatives. *Numerische Mathematik*, 44(2):223–232, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Larson:1999:AMF

[LN99] Mats G. Larson and A. Jonas Niklasson. Adaptive multilevel finite element approximations of semilinear elliptic boundary value problems. *Numerische Mathematik*, 84 (2):249–274, December 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084002/90840249.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084002/90840249.pdf`.

Lubich:1998:HBR

[LO98] Christian Lubich and Alexander Ostermann. Hopf bifurcation of reaction-diffusion and Navier–Stokes equations under discretization. *Numerische Mathematik*, 81(1):53–84, November 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081001/80810053.htm; http://link.springer.de/link/service/journals/00211/papers/8081001/80810053.pdf`.

Locher:1973:SQG

[Loc73] Franz Locher. Zur Struktur von Quadraturformeln. (German) [On the structure of quadrature formulas]. *Numerische Mathematik*, 20(4):317–326, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Locher:1980:DDM

[Loc80] F. Locher. Dividierte Differenzen und Monotonie von Quadraturformeln. (German) [Divided differences and monotony of quadrature formulas]. *Numerische Mathematik*, 34(2): 99–109, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Locher:1993:STR

[Loc93] F. Locher. A stability test for real polynomials. *Numerische Mathematik*, 66(1):33–40, October 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lode:1970:NNE

[Lod70] W. Lode. Zum neuen Norm Entwurf DIN 1333 "Abbrechen und Runden von Dezimalzahlen". (German) [Toward a new standard design DIN 1333 "calculation and rounding in decimal numbers"]. *Numerische Mathematik*, 14(3):313–316, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Loizou:1967:BIW

[Loi67] G. Loizou. Bounds for the inequality of Wielandt. *Numerische Mathematik*, 10(2): 142–146, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Loizou:1968:MCS

[Loi68] G. Loizou. On matrices with a checkerboard sign distribution. *Numerische Mathematik*, 12(5): 429–430, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lorenz:1977:IDP

[Lor77] Jens Lorenz. Zur Inversmonotonie diskreter Probleme. (German) [On the monotone kind-property of discrete problems]. *Numerische Mathematik*, 27(2): 227–238, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lory:1980:EDC

[Lor80] Peter Lory. Enlarging the domain of convergence for multiple shooting by the homotopy method. *Numerische Mathematik*, 35(2):231–240, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lorentzen:1992:AOR

[Lor92] Lisa Lorentzen. Arithmetic operations with regular C-fractions. *Numerische Mathematik*, 61(4):489–499, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Louis:1979:ACF

[Lou79] Alfred Louis. Acceleration of convergence for finite element solutions of the Poisson equation. *Numerische Mathematik*, 33(1):43–53, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Louis:1986:IDP

[Lou86] Alfred K. Louis. Incomplete data problems in X-ray computerized tomography I. singular value decomposition of the limited angle transform. *Numerische Mathematik*, 48(3): 251–262, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lee:1978:ANS

[LP78] J. W. Lee and P. M. Prenter. An analysis of the numerical solution of Fredholm integral equations of the first kind. *Numerische Mathematik*, 30(1):1–23, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lee:1995:RCB

[LP95] Chang-Ock Lee and Seymour V. Parter. On the rate of convergence of the $k \times k$ block, k-line iterative methods: $k \to \infty$. *Numerische Mathematik*, 71 (1):59–90, July 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071001/50710059.htm; http://science.springer.de/nmee/bibs/5071001/50710059.htm`.

Laurent:1970:GAC

[LPDT70] P. J. Laurent and Pham-Dinh-Tuan. Global approximation of a compact set by elements of a convex set in a normed space. *Numerische Mathematik*, 15(2): 137–150, June 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lucas:1973:HOP

[LR73] Thomas R. Lucas and George W. Reddien. A high order projection method for nonlinear two point boundary value problems. *Numerische Mathematik*, 20(4): 257–270, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LeTallec:1989:FEA

[LR89a] Patrick Le Tallec and Michel Ravachol. Finite element approximation of viscoelastic progressively incompressible flows. *Numerische Mathematik*, 56(1): 43–66, September 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Li:1989:HAS

[LR89b] T. Y. Li and N. H. Rhee. Homotopy algorithm for symmetric eigenvalue problems. *Numerische Mathematik*, 55(3): 265–280, June 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Louis:1989:IDP

[LR89c] Alfred K. Louis and Andreas Rieder. Incomplete data problems in X-ray computerized tomography. II. truncated projections and region-of-interest tomography. *Numerische Mathematik*, 56(4):371–383, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Levenberg:1993:GAI

[LR93] N. Levenberg and L. Reichel. A generalized ADI iterative method. *Numerische Mathematik*, 66(2):215–233, November 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lyness:1998:CIC

[LR98] J. N. Lyness and U. Rüde. Cubature of integrands containing derivatives. *Numerische Mathematik*, 78(3):439–461, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078003/70780439.htm; http://science.springer.de/nmee/bibs/7078003/70780439.htm`.

Lanzkron:1991:CNC

[LRS91] Paul J. Lanzkron, Donald J. Rose, and Daniel B. Szyld. Convergence of nested classical iterative methods for linear systems. *Numerische Mathematik*, 58(7):685–702, February 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lynch:1964:DSP

[LRT64] R. Lynch, J. Rice, and D. Thomas. Direct solution of partial difference equations by tensor product methods. *Numerische Mathematik*, 6(1):185–199, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lions:1993:SSV

[LRT93] P. L. Lions, E. Rouy, and A. Tourin. Shape-from-shading, viscosity solutions and edges. *Numerische Mathematik*, 64(3): 323–353, March 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Li:1995:EAP

[LRZ95] T. Y. Li, Noah H. Rhee, and Zhong Gang Zeng. An efficient and accurate parallel algorithm for the singular value problem of bidiagonal matrices. *Numerische Mathematik*, 69(3):283–301, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069003/50690283.htm; http://science.springer.de/nmee/bibs/5069003/50690283.htm`.

Lambert:1966:GMM

[LS66] John D. Lambert and Brian Shaw. A generalisation of multistep methods for ordinary differential equations. *Numerische Mathematik*, 8(3):250–263, May 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Luther:1970:OCF

[LS70] H. A. Luther and H. G. Sierra. On the optimal choice of fourth-order Runge–Kutta formulas. *Numerische Mathematik*, 15(4): 354–358, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Li:1987:RRS

[LS87] T.-Y. Li and Tim Sauer. Regularity results for solving systems of polynomials by homotopy method. *Numerische Mathematik*, 50(3):283–289, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubich:1992:TDP

[LS92] Ch. Lubich and R. Schneider. Time discretization of parabolic boundary integral equations. *Numerische Mathematik*, 63(4): 455–481, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lions:1995:CMF

[LS95] P.-L. Lions and P. E. Souganidis. Convergence of MUSCL and filtered schemes for scalar conservation laws and Hamilton–Jacobi equations. *Numerische Mathematik*, 69(4):441–470, February 1995. CODEN NUMMA7. ISSN 0029-599X

(print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5069004/50690441.htm; http://science.springer.de/nmee/bibs/5069004/50690441.htm.

Lamp:1985:FFT

[LSW85] U. Lamp, K. T. Schleicher, and W. L. Wendland. The fast Fourier transform and the numerical solution of one-dimensional boundary integral equations. *Numerische Mathematik*, 47(1):15–38, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Li:1987:RPH

[LSY87] T.-Y. Li, Tim Sauer, and James A. Yorke. The random product homotopy and deficient polynomial systems. *Numerische Mathematik*, 51(5): 481–500, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lynn:1968:NSS

[LT68] M. Stuart Lynn and William P. Timlake. The numerical solution of singular integral equations of potential theory. *Numerische Mathematik*, 11(1):77–98, January 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LeBailly:1998:OPG

[LT98a] B. Le Bailly and J. P. Thiran. Optimum parameters for the generalized ADI method. *Numerische Mathematik*, 80(3): 377–395, September 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8080003/80800377.htm; http://link.springer.de/link/service/journals/00211/papers/8080003/80800377.pdf; http://link.springer.de/link/service/journals/00211/papers/8080003/80800377.ps.gz.

Liu:1998:TON

[LT98b] Xu-Dong Liu and Eitan Tadmor. Third order nonoscillatory central scheme for hyperbolic conservation laws. *Numerische Mathematik*, 79(3): 397–425, May 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079003/80790397.htm; http://science.springer.de/nmee/bibs/8079003/80790397.htm.

Lee:1992:ATF

[LTT92] S. L. Lee, Roger C. E. Tan, and W. S. Tang. L_2-approximation by the translates of a function and related attenuation factors. *Numerische Mathematik*, 60(4): 549–568, January 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lu:1997:GWG

[Lu97] Hao Lu. Galerkin and weighted Galerkin methods for a forward-backward heat equation. *Numerische Mathematik*, 75(3): 339–356, January 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075003/70750339.htm; http://science.springer.de/nmee/bibs/7075003/70750339.htm`.

Lubich:1982:RKT

[Lub82] Ch. Lubich. Runge–Kutta theory for Volterra integro-differential equations. *Numerische Mathematik*, 40(1): 119–135, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubich:1988:CQDa

[Lub88a] C. Lubich. Convolution quadrature and discretized operational calculus. I. *Numerische Mathematik*, 52(2):129–145, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubich:1988:CQDb

[Lub88b] C. Lubich. Convolution quadrature and discretized operational calculus. II. *Numerische Mathematik*, 52(4):413–425, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubinsky:1988:PSE

[Lub88c] D. S. Lubinsky. Power series equivalent to rational functions: a shifting-origin Kronecker type theorem, and normality of Padé tables. *Numerische Mathematik*, 54(1):33–39, October 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubich:1989:LIE

[Lub89a] C. Lubich. Linearly implicit extrapolation methods for differential-algebraic systems. *Numerische Mathematik*, 55(2): 197–211, May 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubinsky:1989:UCR

[Lub89b] D. S. Lubinsky. On uniform convergence of rational, Newton–Padé interpolants of type (n, n) with free poles as $n \to \infty$. *Numerische Mathematik*, 55(3): 247–264, June 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubich:1991:CMM

[Lub91] C. Lubich. On the convergence of multistep methods for nonlinear stiff differential equations. *Numerische Mathematik*, 58(8): 839–853, March 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Lub92b].

Lube:1992:SDF

[Lub92a] G. Lube. Streamline diffusion finite element method

for quasilinear elliptic problems. *Numerische Mathematik*, 61(3): 335–357, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lubich:1992:ECM

[Lub92b] C. Lubich. Erratum: "On the convergence of multistep methods for nonlinear stiff differential equations" [Numer. Math. **58** (1991), no. 8, 839–853 and MR 92d:65127]. *Numerische Mathematik*, 61(2):277–279, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Lub91].

Lubich:1994:MTD

[Lub94] Ch. Lubich. On the multistep time discretization of linear initial-boundary value problems and their boundary integral equations. *Numerische Mathematik*, 67(3): 365–389, April 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067003/40670365.htm; http://science.springer.de/nmee/bibs/4067003/40670365.htm`.

Lucas:1970:GS

[Luc70] Thomas R. Lucas. A generalization of L-splines. *Numerische Mathematik*, 15(5): 359–370, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Luecke:1979:NPC

[Lue79] Glenn R. Luecke. A numerical procedure for computing the Moore–Penrose inverse. *Numerische Mathematik*, 32(2): 129–137, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Luke:1961:RUF

[Luk61] Yudell L. Luke. The radius of univalence of the function exp $z^2 \int_0^z \exp(-t^2)dt$. *Numerische Mathematik*, 3:76–78, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lukas:1993:AOG

[Luk93] Mark A. Lukas. Asymptotic optimality of generalized cross-validation for choosing the regularization parameter. *Numerische Mathematik*, 66(1):41–66, October 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lund:1985:BTR

[Lun85] John Lund. Bessel transforms and rational extrapolation. *Numerische Mathematik*, 47(1):1–14, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Luskin:1996:ALM

[Lus96] Mitchell Luskin. Approximation of a laminated microstructure for a rotationally invariant, double well energy density. *Numerische*

Mathematik, 75(2):205–221, December 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6075002/60750205.htm; http://science.springer.de/nmee/bibs/6075002/60750205.htm`.

LaPorte:1974:ESE

[LV74a] M. La Porte and J. Vignes. Étude statistique des erreurs dans l'arithmétique des ordinateurs; application au contrôle des Résultats d'algorithmes numériques. (French) [Statistical study of errors in computer arithmetic: Application to the control of the results of numerical algorithms]. *Numerische Mathematik*, 23(1):63–72, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LaPorte:1974:MND

[LV74b] M. La Porte and J. Vignes. Méthode numérique de Détection de la singularité d'une matrice. (French) [Numerical method of detection of matrix singularity]. *Numerische Mathematik*, 23(1):73–81, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LaPorte:1975:EIS

[LV75] M. La Porte and J. Vignes. Evaluation de l'incertitude sur la solution d'un système linéaire. (French) [Evaluation of the uncertainty in the solution of a linear system]. *Numerische Mathematik*, 24(1):39–47, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

LeTallec:1984:MNP

[LV84] Patrick Le Tallec and Marina Vidrascu. Une méthode numérique pour les problèmes d'équilibre de corps hyperélastiques compressibles en grandes déformations. (French) [A numerical method for solving equilibrium problems of compressible hyperelastic bodies in large deformations]. *Numerische Mathematik*, 43(2):199–224, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Li:1989:NSU

[LV89] Xiezhang Li and Richard S. Varga. A note on the SSOR and USSOR iterative methods applied to p-cyclic matrices. *Numerische Mathematik*, 56(2/3):109–121, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Leimkuhler:1997:OIL

[LV97] Benedict J. Leimkuhler and Erik S. Van Vleck. Orthosymplectic integration of linear Hamiltonian systems. *Numerische Mathematik*, 77(2):269–282, August 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

URL http://link.springer.de/link/service/journals/00211/bibs/7077002/70770269.htm; http://science.springer.de/nmee/bibs/7077002/70770269.htm.

Lai:1982:EBN

[LW82] Hang Chin Lai and Pou Yah Wu. Error bounds of Newton type process on Banach spaces. *Numerische Mathematik*, 39(2): 175–193, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Light:1999:SDI

[LW99] Will Light and Henry Wayne. Spaces of distributions, interpolation by translates of a basis function and error estimates. *Numerische Mathematik*, 81(3):415–450, January 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/9081003/90810415.htm; http://link.springer.de/link/service/journals/00211/papers/9081003/90810415.pdf.

Lyche:1972:CMM

[Lyc72] Tom Lyche. Chebyshevian multistep methods for ordinary differential equations. *Numerische Mathematik*, 19(1):65–75, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lynn:1963:SIM

[Lyn63] M. Stuart Lynn. Some inframax bounds for the spectral radii of splittings of H-matrices. *Numerische Mathematik*, 5(1): 152–174, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lyness:1968:CSI

[Lyn68] J. N. Lyness. The calculation of Stieltjes' integral. *Numerische Mathematik*, 12(4): 252–265, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lyness:1985:EME

[Lyn85] J. N. Lyness. The Euler Maclaurin expansion for the Cauchy principal value integral. *Numerische Mathematik*, 46(4): 611–622, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Lesaint:1980:CNW

[LZ80] P. Lesaint and M. Zlámal. Convergence of the nonconforming Wilson element for arbitrary quadrilateral meshes. *Numerische Mathematik*, 36(1):33–52, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Magolu:1992:MBA

[Mag92] Monga-Made Magolu. Modified block-approximate factorization

strategies. *Numerische Mathematik*, 61(1):91–110, February 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Maitre:1967:NCN

[Mai67] Jean-François Maitre. Norme composée et norme associée généralisée d'une matrice. (French) [Composed and associative generalized matrix norm]. *Numerische Mathematik*, 10(2): 132–141, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Maitre:1968:CNA

[Maî68] Jean-François Maître. Sur une classe de normes et l'analyse a posteriori d'un système linéaire. (French) [On a class of norms and the A posteriori analysis of a linear system]. *Numerische Mathematik*, 12(2):106–110, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Makridakis:1992:MFE

[Mak92] Ch. G. Makridakis. On mixed finite element methods for linear elastodynamics. *Numerische Mathematik*, 61(2): 235–260, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Malyshev:1999:FND

[Mal99] Alexander N. Malyshev. A formula for the 2-norm distance from a matrix to the set of matrices with multiple eigenvalues. *Numerische Mathematik*, 83(3):443–454, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830443.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830443.pdf`.

Mangasarian:1970:CSM

[Man70] O. L. Mangasarian. A convergent splitting of matrices. *Numerische Mathematik*, 15(4): 351–353, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mansfield:1972:VCC

[Man72] Lois Mansfield. On the variational characterization and convergence of bivariate splines. *Numerische Mathematik*, 20(2): 99–114, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mansfield:1974:HOC

[Man74] Lois Mansfield. Higher order compatible triangular finite elements. *Numerische Mathematik*, 22(2):89–97, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Manteuffel:1977:TIN

[Man77] Thomas A. Manteuffel. The Tchebychev iteration for non-

symmetric linear systems. *Numerische Mathematik*, 28(3): 307–327, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mannshardt:1978:OSM

[Man78a] Reinhold Mannshardt. One-step methods of any order for ordinary differential equations with discontinuous right-hand sides. *Numerische Mathematik*, 31(2): 131–152, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Manteuffel:1978:APE

[Man78b] Thomas A. Manteuffel. Adaptive procedure for estimating parameters for the nonsymmetric Tchebychev iteration. *Numerische Mathematik*, 31(2): 183–208, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mansfield:1981:FEM

[Man81a] Lois Mansfield. Finite element methods for nonlinear shell analysis. *Numerische Mathematik*, 37(1):121–131, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mansfield:1981:MSF

[Man81b] Lois Mansfield. On the multigrid solution of finite element equations with isoparametric elements. *Numerische Mathematik*, 37(3):423–432, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mansfield:1983:AFE

[Man83] Lois Mansfield. Analysis of finite element methods for the nonlinear dynamic analysis of shells. *Numerische Mathematik*, 42(2): 213–235, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mansfield:1984:FES

[Man84] Lois Mansfield. On finite element subspaces over quadrilateral and hexahedral meshes for incompressible viscous flow problems. *Numerische Mathematik*, 45(2):165–172, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mandel:1985:MIM

[Man85] Jan Mandel. On multilevel iterative methods for integral equations of the second kind and related problems. *Numerische Mathematik*, 46(1): 147–157, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mandel:1990:BDS

[Man90] Jan Mandel. On block diagonal and Schur complement preconditioning. *Numerische Mathematik*, 58(1):79–93, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marcus:1962:ICC

[Mar62] Marvin Marcus. An inequality connecting the P-condition number and the determinant. *Numerische Mathematik*, 4:350–353, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marsal:1965:VSE

[Mar65] Dietrich Marsal. Eine Verallgemeinerung der Summenformel von Euler und ihre Anwendung auf ausgewählte Probleme der numerischen Integration. (German) [A generalization of Euler's summation formula and its use for selected problems of numerical integration]. *Numerische Mathematik*, 7(2):147–154, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marek:1969:RSC

[Mar69] Ivo Marek. On the row sum criterion and the convergence of some iterative processes. *Numerische Mathematik*, 13(3):207–216, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marsaglia:1970:RCR

[Mar70a] George Marsaglia. Regularities in congruential random number generators. *Numerische Mathematik*, 16(1):8–10, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marsal:1970:ELI

[Mar70b] D. Marsal. Eingabelung der Lösungen von Integralgleichungen. (German) [Bifurcation of solutions of integral equations]. *Numerische Mathematik*, 15(4):348–350, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Martensen:1970:RGQ

[Mar70c] Erich Martensen. Zur Restglieddartstellung der Gregoryschen Quadraturformel ungerader Ordnung. (German) [On the representation of the remainder of the Gregory quadrature formula of an odd series]. *Numerische Mathematik*, 15(3):229–233, July 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Martensen:1973:DER

[Mar73] Erich Martensen. Darstellung und Entwicklung des Restgliedes der Gregoryschen Quadraturformel mit Hilfe von Spline-Funktionen. (German) [Representation and development of the remainder term of Gregory's quadrature formula using spline functions]. *Numerische Mathematik*, 21(1):70–80, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marcowitz:1975:FAS

[Mar75] U. Marcowitz. Fehlerabschätzung bei Anfangswertaufgaben für Systeme von

gewönlichen Differentialgleichungen mit Anwendungen auf das REENTRY-Problem. (German) [Error estimation in initial value problems for systems of ordinary differential equations with an application to the REENTRY problem]. *Numerische Mathematik*, 24(3):249–275, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marciniak:1984:ECA

[Mar84] Andrzej Marciniak. Energy conserving, arbitrary order numerical solutions of the N-body problem. *Numerische Mathematik*, 45(2):207–218, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marini:1987:EAB

[Mar87] Luisa Donatella Marini. Estimates from above and from below for the homogenized coefficients. *Numerische Mathematik*, 50(5):533–545, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marti:1990:SPC

[Mar90] Jürg T. Marti. Small potential corrections for the discrete Eigenvalues of the Sturm–Liouville problem. *Numerische Mathematik*, 57(1): 51–62, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Masmoudi:1987:NSE

[Mas87] M. Masmoudi. Numerical solution for exterior problems. *Numerische Mathematik*, 51(1): 87–101, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Matthys:1976:ALM

[Mat76] J. Matthys. A-stable linear multistep methods for Volterra integro-differential equations. *Numerische Mathematik*, 27(1): 85–94, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mattheij:1980:CDD

[Mat80] R. M. M. Mattheij. Characterizations of dominant and dominated solutions of linear recursions. *Numerische Mathematik*, 35(4):421–442, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Matos:1990:AMB

[Mat90] Ana C. Matos. Acceleration methods based on convergence tests. *Numerische Mathematik*, 58(3):329–340, October 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mathias:1992:EFD

[Mat92] Roy Mathias. Evaluating the Fréchet derivative of the matrix exponential. *Numerische Mathematik*, 63(2):213–226, November 1992. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Mathew:1993:SAIa

[Mat93a] Tarek P. Mathew. Schwarz alternating and iterative refinement methods for mixed formulations of elliptic problems. I. algorithms and numerical results. *Numerische Mathematik*, 65(4): 445–468, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mathew:1993:SAIb

[Mat93b] Tarek P. Mathew. Schwarz alternating and iterative refinement methods for mixed formulations of elliptic problems. II. convergence theory. *Numerische Mathematik*, 65(4):469–492, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mathias:1996:FAE

[Mat96] Roy Mathias. Fast accurate eigenvalue methods for graded positive definite matrices. *Numerische Mathematik*, 74(1): 85–103, July 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074001/60740085.htm`; `http://science.springer.de/nmee/bibs/6074001/60740085.htm`.

Mavrides:1977:OUN

[Mav77] Lazaros P. Mavrides. Optimisation under nonnegativity constraints. *Numerische Mathematik*, 28(3):287–293, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Maybee:1965:SST

[May65] J. S. Maybee. Some structural theorems for partial difference operators. *Numerische Mathematik*, 7(1):66–72, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mayer:1985:CPI

[May85] Günter Mayer. On the convergence of powers of interval matrices. II. *Numerische Mathematik*, 46(1):69–83, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mayer:1986:TSR

[May86] Günter Mayer. On a theorem of Stein–Rosenberg type in interval analysis. *Numerische Mathematik*, 50(1):17–26, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

McArthur:1990:SMM

[MBL90] Kelly M. McArthur, Kenneth L. Bowers, and John Lund. The Sinc method in multiple space dimensions: model problems. *Numerische Mathematik*, 56(8): 789–816, February 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Barth:1967:CES

[MBW67] R. S. Martin, W. Barth, and J. H. Wilkinson. Calculation of the eigenvalues of a symmetric tridiagonal matrix by the method of bisection. *Numerische Mathematik*, 9(5):386–393, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 249–256].

Modi:1984:AGO

[MC84] J. J. Modi and M. R. B. Clarke. An alternative Givens ordering. *Numerische Mathematik*, 43(1): 83–90, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Monegato:1988:EIL

[MC88a] G. Monegato and V. Colombo. Erratum: "Product integration for the linear transport equation in slab geometry" [Numer. Math. **52** (1988), no. 2, 219–240 and MR 88k:65133]. *Numerische Mathematik*, 53(6):739, September 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [MC88b].

Monegato:1988:PIL

[MC88b] G. Monegato and V. Colombo. Product integration for the linear transport equation in slab geometry. *Numerische Mathematik*, 52(2):219–240, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [MC88a].

McAllister:1968:PBD

[McA68] G. T. McAllister. A priori bounds on difference quotients of solutions to some linear uniformly elliptic difference equations. *Numerische Mathematik*, 11(1):13–37, January 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

McCormick:1975:IPS

[McC75] Steve F. McCormick. An iterative procedure for the solution of constrained nonlinear equations with application to optimization problems. *Numerische Mathematik*, 23(5):371–385, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

McLachlan:1994:SIH

[McL94] Robert McLachlan. Symplectic integration of Hamiltonian wave equations. *Numerische Mathematik*, 66(4):465–492, January 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meinguet:1977:OAE

[MD77] Jean Meinguet and Jean Descloux. An operator-theoretical approach to error estimation. *Numerische Mathematik*, 27(3): 307–326, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Medley:1971:NPJ

[Med71] Helen I. Medley. A note on a paper of Johnston and Smith's concerning best isolated Gerschgorin disks. *Numerische Mathematik*, 16(5): 435–441, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Medley:1973:NGF

[Med73] H. I. Medley. A note on G-generating families and isolated Gerschgorin disks. *Numerische Mathematik*, 21(2):93–95, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mehndiratta:1967:SSD

[Meh67] S. L. Mehndiratta. Symmetry and self-duality in nonlinear programming. *Numerische Mathematik*, 10(2): 103–109, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meinardus:1963:UVU

[Mei63] Günter Meinardus. Über eine Verallgemeinerung einer Ungleichung von L. V. Kantorowitsch. (German) [On a generalization of an inequation of L. V. Kantorowitsch]. *Numerische Mathematik*, 5(1):14–23, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meinguet:1966:MER

[Mei66] J. Meinguet. Methods for estimating the remainder in linear rules of approximation. Application to the Romberg algorithm. *Numerische Mathematik*, 8(4):345–366, June 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meinguet:1967:OAE

[Mei67] J. Meinguet. Optimal approximation and error bounds in seminormed spaces. *Numerische Mathematik*, 10(4): 370–388, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meinguet:1986:DKW

[Mei86] Jean Meinguet. On the Davis-Kahan-Weinberger solution of the norm-preserving dilation problem. *Numerische Mathematik*, 49(2/3):331–341, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meini:1997:NCR

[Mei97] Beatrice Meini. New convergence results on functional iteration techniques for the numerical solution of $M/G/1$ type Markov chains. *Numerische Mathematik*, 78(1):39–58, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.`

de/link/service/journals/00211/bibs/7078001/70780039.htm; http://science.springer.de/nmee/bibs/7078001/70780039.htm.

Melkes:1972:RPB

[Mel72] František Melkes. Reduced piecewise bivariate Hermite interpolations. *Numerische Mathematik*, 19(4):326–340, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Melman:1995:NSS

[Mel95] A. Melman. Numerical solution of a secular equation. *Numerische Mathematik*, 69(4): 483–493, February 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5069004/50690483.htm; http://science.springer.de/nmee/bibs/5069004/50690483.htm.

Melenk:1999:OAS

[Mel99] J. M. Melenk. Operator adapted spectral element methods I: harmonic and generalized harmonic polynomials. *Numerische Mathematik*, 84(1):35–69, November 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9084001/90840035.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084001/90840035.pdf.

Menke:1974:BNK

[Men74] Klaus Menke. Bestimmung von Näherungen für die konforme Abbildung mit Hilfe von stationären Punksystemen. (German) [Determination of the best approximation for conformal mapping with help of stationary point system]. *Numerische Mathematik*, 22(2): 111–117, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Menke:1988:PSE

[Men88] Klaus Menke. Point systems with extremal properties and conformal mapping. *Numerische Mathematik*, 54(2): 125–143, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Merzrath:1967:DSP

[Mer67] Ernst Merzrath. Direct solution of partial difference equations. *Numerische Mathematik*, 9(5):431–436, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mertins:1991:KRR

[Mer91] Ulrich Mertins. Zur Konvergenz des Rayleigh–Ritz-Verfahrens bei Eigenwertaufgaben. (German) [On the convergence of the Rayleigh–Ritz method for eigenvalue problems]. *Numerische Mathematik*, 59(7):667–682, October 1991. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Mertins:1992:AFF

[Mer92] U. Mertins. Asymptotische Fehlerschranken für Rayleigh–Ritz-Approximationen selbstadjungierter Eigenwertaufgaben. (German) [Asymptotic error estimates for Rayleigh–Ritz approximations of selfadjoint eigenvalue problems]. *Numerische Mathematik*, 63(2): 227–241, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Messaoudi:1995:SIF

[Mes95] A. Messaoudi. On the stability of the incomplete LU-factorizations and characterizations of H-matrices. *Numerische Mathematik*, 69(3):321–331, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069003/50690321.htm; http://science.springer.de/nmee/bibs/5069003/50690321.htm`.

Metropolis:1965:AUA

[Met65a] N. Metropolis. Algorithms in unnormalized arithmetic. I: Recurrence relations. *Numerische Mathematik*, 7(2):104–112, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Met65b].

Metropolis:1965:BAU

[Met65b] N. Metropolis. Berichtigung: Algorithms in unnormalized arithmetic. I: Recurrence relations. *Numerische Mathematik*, 7(4):354, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Met65a].

Meyer:1970:FIP

[Mey70] G. H. Meyer. On a free interface problem for linear ordinary differential equations and the one-phase Stefan problem. *Numerische Mathematik*, 16(3): 248–267, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer:1975:SAS

[Mey75] G. G. L. Meyer. A systematic approach to the synthesis of algorithms. *Numerische Mathematik*, 24(4):277–289, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer:1978:MLP

[Mey78] Gunter H. Meyer. The method of lines for Poisson's equation with nonlinear or free boundary conditions. *Numerische Mathematik*, 29(3):329–344, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer-Spasche:1979:NAM

[Mey79] Rita Meyer-Spasche. A note on the approximation of mildly

nonlinear Dirichlet problems by finite differences. *Numerische Mathematik*, 33(3): 303–313, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyn:1983:SUN

[Mey83] Klaus-Hermann Meyn. Solution of underdetermined nonlinear equations by stationary iteration methods. *Numerische Mathematik*, 42(2): 161–172, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer:1984:FBP

[Mey84a] Gunter H. Meyer. Free boundary problems with nonlinear source terms. *Numerische Mathematik*, 43(3):463–483, April 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer:1984:MNV

[Mey84b] Peter Wilhelm Meyer. Das modifizierte Newton-Verfahren in verallgemeinerten Banach-Räumen. (German) [The modified Newton method in generalized Banach spaces]. *Numerische Mathematik*, 43(1):91–104, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mitchell:1964:IFA

[MF64] A. Mitchell and G. Fairweather. Improved forms of the alternating direction methods of Douglas, Peaceman, and Rachford for solving parabolic and elliptic equations. *Numerische Mathematik*, 6(1):285–292, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Molchanov:1985:FEM

[MG85] I. N. Molchanov and Ē. F. Galba. On finite element methods for the Neumann problem. *Numerische Mathematik*, 46(4): 587–598, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mas-Gallic:1987:PMF

[MGR87] S. Mas-Gallic and P. A. Raviart. A particle method for first-order symmetric systems. *Numerische Mathematik*, 51(3): 323–352, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morita:1972:CAG

[MH72] Tohru Morita and Tsuyoshi Horiguchi. Convergence of the arithmetic-geometric mean procedure for the complex variables and the calculation of the complete elliptic integrals with complex modulus. *Numerische Mathematik*, 20(5): 425–430, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-`

599X&volume=20&issue=5&spage=425.

Murota:1982:PTR

[MI82] Kazuo Murota and Masao Iri. Parameter tuning and repeated application of the IMT-type transformation in numerical quadrature. *Numerische Mathematik*, 38(3):347–363, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Midy:1975:ICG

[Mid75] P. Midy. An improved calculation of the general elliptic integral of the second kind in the neighbourhood of $x = 0$. *Numerische Mathematik*, 25(1): 99–101, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miel:1979:UEA

[Mie79] George J. Miel. Unified error analysis for Newton-type methods. *Numerische Mathematik*, 33(4):391–396, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mignotte:1976:NMB

[Mig76] Maurice Mignotte. Note sur la méthode Bernoulli. (French) [A note on Bernoulli's method]. *Numerische Mathematik*, 26(3): 325–326, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miklosko:1970:APC

[Mik70] Jozef Mikloško. Asymptotic properties and the convergence of numerical quadratures. *Numerische Mathematik*, 15(3): 234–249, July 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miller:1965:ASF

[Mil65a] G. F. Miller. Algorithms for special functions. II. *Numerische Mathematik*, 7(2):194–196, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miller:1965:NAS

[Mil65b] Keith Miller. Numerical analogs to the Schwarz alternating procedure. *Numerische Mathematik*, 7(2):91–103, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miller:1967:PBO

[Mil67] John J. H. Miller. On power-bounded operators and operators satisfying a resolvent condition. *Numerische Mathematik*, 10(5):389–396, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miller:1972:SFN

[Mil72] Webb Miller. On the stability of finite numerical procedures. *Numerische Mathematik*, 19(5): 425–432, October 1972. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Miller:1977:RAS

[Mil77] Webb Miller. Roundoff analysis and sparse data. *Numerische Mathematik*, 29(1):37–43, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Milaszewicz:1980:GSR

[Mil80] J. P. Milaszewicz. A generalization of the Stein–Rosenberg theorem to Banach spaces. *Numerische Mathematik*, 34(4): 403–409, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Milaszewicz:1981:FPL

[Mil81] J. P. Milaszewicz. On fixed point linear equations. *Numerische Mathematik*, 38(1):53–59, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Milner:1985:PHF

[Mil85] Fabio A. Milner. A primal hybrid finite element method for quasilinear second order elliptic problems. *Numerische Mathematik*, 47(1):107–122, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miranker:1971:DSB

[Mir71] W. L. Miranker. Difference schemes with best possible truncation error. *Numerische Mathematik*, 17(2):124–142, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Missirlis:1984:CTE

[Mis84] Nikolaos M. Missirlis. Convergence theory of extrapolated iterative methods for a certain class of non-symmetric linear systems. *Numerische Mathematik*, 45(3):447–458, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mishev:1999:FVE

[Mis99] Ilya D. Mishev. Finite volume element methods for non-definite problems. *Numerische Mathematik*, 83(1):161–175, July 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083001/90830161.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083001/90830161.pdf`.

Mittermayer:1973:IMG

[Mit73] E. Mittermayer. Eine Iterationsmethode zur mehrdimensionalen gleichmäßigen Approximation bei gegebener Näherung. (German) [An iterative method for the more dimensional uniform approximation by given nearness]. *Numerische Mathematik*, 21(4):298–302, August 1973. CODEN NUMMA7. ISSN

0029-599X (print), 0945-3245 (electronic).

Mittelmann:1978:ASN

[Mit78] Hans-Detlef Mittelmann. On the approximate solution of nonlinear variational inequalities. *Numerische Mathematik*, 29(4): 451–462, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mittelmann:1980:ESN

[Mit80] Hans-Detlef D. Mittelmann. On the efficient solution of nonlinear finite element equations. I. *Numerische Mathematik*, 35(3): 277–291, October 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mittelmann:1981:ESN

[Mit81] Hans Detlef Mittelmann. On the efficient solution of nonlinear finite element equations. II. bound-constrained problems. *Numerische Mathematik*, 36(4): 375–387, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miyoshi:1976:MFE

[Miy76] Tetsuhiko Miyoshi. A mixed finite element method for the solution of the von Karman equations. *Numerische Mathematik*, 26(3):255–269, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Magnus:1960:ZHF

[MK60] Wilhelm Magnus and Leon Kotin. The zeros of the Hankel function as a function of its order. *Numerische Mathematik*, 2(1):228–244, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mokhtar-Kharroubi:1980:CTM

[MK80] H. Mokhtar-Kharroubi. Sur la convergence théorique de la méthode du gradient réduit généralisé. (French) [On the theoretical convergence of the reduced generalized gradient method]. *Numerische Mathematik*, 34(1):73–85, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Monegato:1990:NRG

[ML90] G. Monegato and P. Lepora. On the numerical resolution of the generalized airfoil equation with Possion kernel. *Numerische Mathematik*, 56(8): 775–787, February 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Monegato:1998:EEF

[ML98] G. Monegato and J. N. Lyness. The Euler–Maclaurin expansion and finite-part integrals. *Numerische Mathematik*, 81(2):273–291, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (elec-

tronic). URL http://link.springer.de/link/service/journals/00211/bibs/8081002/80810273.htm; http://link.springer.de/link/service/journals/00211/papers/8081002/80810273.pdf.

Menzel:1967:AUA

[MM67] M. Menzel and N. Metropolis. Algorithms in unnormalized arithmetic II. unrestricted polynomial evaluation. *Numerische Mathematik*, 10(5): 451–462, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Micchelli:1974:AOA

[MM74] C. A. Micchelli and W. L. Miranker. Asymptotically optimal approximation in fractional Sobolev spaces and the numerical solution of differential equations. *Numerische Mathematik*, 22(2):75–87, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morton:1992:OEE

[MMS92] K. W. Morton, T. Murdoch, and E. Süli. Optimal error estimation for Petrov–Galerkin methods in two dimensions. *Numerische Mathematik*, 61(3): 359–372, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Manas:1968:FAV

[MN68] Miroslav Maňas and Josef Nedoma. Finding all vertices of a convex polyhedron. *Numerische Mathematik*, 12(3):226–229, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miller:1985:NCT

[MN85] Valerie A. Miller and Michael Neumann. A note on comparison theorems for nonnegative matrices. *Numerische Mathematik*, 47(3):427–434, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Makela:1974:CCC

[MNS74] Matti Mäkelä, Olavi Nevanlinna, and Aarne H. Sipilä. On the concepts of convergence, consistency, and stability in connection with some numerical methods. *Numerische Mathematik*, 22(4):261–274, August 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marshall:1964:ITE

[MO64] A. W. Marshall and I. Olkin. Inclusion theorems for eigenvalues from probability inequalities. *Numerische Mathematik*, 6(1):98–102, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marshall:1968:SMA

[MO68] Albert W. Marshall and Ingram Olkin. Scaling of matrices to achieve specified row and column sums. *Numerische Mathematik*, 12(1):83–90, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Majda:1978:SAC

[MO78] Andrew Majda and Stanley Osher. A systematic approach for correcting nonlinear instabilities — the Lax–Wendroff scheme for scalar conservation laws. *Numerische Mathematik*, 30(4):429–452, December 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Moret:1991:QNM

[MO91] Igor Moret and Pierpaolo Omari. A quasi-Newton method for solving fixed point problems in Hilbert spaces. *Numerische Mathematik*, 59(2): 159–177, May 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mock:1974:SNT

[Moc74] M. S. Mock. Solution of a nonlinear two point boundary value problem. *Numerische Mathematik*, 23(1):37–46, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mock:1975:GPE

[Moc75] M. S. Mock. A global a posteriori error estimate for quasilinear elliptic problems. *Numerische Mathematik*, 24(1):53–61, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mock:1976:EFE

[Moc76] M. S. Mock. Explicit finite element schemes for first order symmetric hyperbolic systems. *Numerische Mathematik*, 26(4): 367–378, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Moller:1976:KMK

[Möl76] H. M. Möller. Kubaturformeln mit minimaler Knotenzahl. (German) [Minimum-point cubature formulas]. *Numerische Mathematik*, 25(2): 185–200, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Monegato:1984:CPF

[Mon84] Giovanni Monegato. Convergence of product formulas for the numerical evaluation of certain two-dimensional Cauchy principal value integrals. *Numerische Mathematik*, 43(2): 161–173, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Monegato:1987:WCQ

[Mon87] Giovanni Monegato. On the weights of certain quadratures

for the numerical evaluation of Cauchy principal value integrals and their derivatives. *Numerische Mathematik*, 50(3): 273–281, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Monk:1992:FEM

[Mon92] Peter Monk. A finite element method for approximating the time-harmonic Maxwell equations. *Numerische Mathematik*, 63(2):243–261, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Moore:1968:ANO

[Moo68] Robert H. Moore. Approximations to nonlinear operator equations and Newton's method. *Numerische Mathematik*, 12(1):23–34, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Moore:1988:DCG

[Moo88] Gerald Moore. Defect correction from a Galerkin viewpoint. *Numerische Mathematik*, 52(5): 565–582, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morimoto:1962:SWE

[Mor62] Hirofumi Morimoto. Stability in the wave equation coupled with heat flow. *Numerische Mathematik*, 4:136–145, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morris:1972:ITS

[Mor72] Wm. L. Morris. Inclusion theorems for a section of a matrix. *Numerische Mathematik*, 18(5): 457–464, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morel:1974:PIV

[Mor74] Paul Morel. Sur le problème inverse des valeurs propres. (French) [On the inverse eigenvalue problem]. *Numerische Mathematik*, 23(1):83–94, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morita:1978:CCE

[Mor78] Tohru Morita. Calculation of the complete elliptic integrals with complex modulus. *Numerische Mathematik*, 29(2): 233–236, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mori:1980:ARS

[Mor80] Masatake Mori. Analytic representations suitable for numerical computation of some special functions. *Numerische Mathematik*, 35(2):163–174, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morley:1989:FMF

[Mor89] Mary E. Morley. A family of mixed finite elements for linear elasticity. *Numerische Mathematik*, 55(6):633–666, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Moret:1994:AGT

[Mor94] Igor Moret. The approximation of generalized turning points by Krylov subspace methods. *Numerische Mathematik*, 68(3):341–353, September 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068003/40680341.htm; http://science.springer.de/nmee/bibs/4068003/40680341.htm`.

Morita:1999:CEI

[Mor99] T. Morita. Calculation of the elliptic integrals of the first and second kinds with complex modulus. *Numerische Mathematik*, 82(4):677–688, June 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082004/90820677.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082004/90820677.pdf`.

Modi:1985:EIJ

[MP85] J. J. Modi and J. D. Pryce. Efficient implementation of Jacobi's diagonalization method on the DAP. *Numerische Mathematik*, 46(3):443–454, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Miesbach:1992:SPF

[MP92] S. Miesbach and H. J. Pesch. Symplectic phase flow approximation for the numerical integration of canonical systems. *Numerische Mathematik*, 61(4): 501–521, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marini:1995:MFE

[MP95a] Donatella Marini and Paola Pietra. Mixed finite element approximation of a degenerate elliptic problem. *Numerische Mathematik*, 71(2): 225–236, August 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071002/50710225.htm; http://science.springer.de/nmee/bibs/5071002/50710225.htm`.

Marletta:1995:LSL

[MP95b] Marco Marletta and John D. Pryce. LCNO Sturm–Liouville problems: computational difficulties and examples. *Numerische Mathematik*, 69(3): 303–320, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (elec-

tronic). URL http://link.springer.de/link/service/journals/00211/bibs/5069003/50690303.htm; http://science.springer.de/nmee/bibs/5069003/50690303.htm.

Maitre:1996:CND

[MP96a] Jean-François Maitre and Olivier Pourquier. Condition number and diagonal preconditioning: comparison of the p-version and the spectral element methods. *Numerische Mathematik*, 74(1): 69–84, July 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074001/60740069.htm; http://science.springer.de/nmee/bibs/6074001/60740069.htm.

McLean:1996:BEC

[MP96b] W. McLean and S. B. Prößdorf. Boundary element collocation methods using splines with multiple knots. *Numerische Mathematik*, 74(4):419–451, October 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074004/60740419.htm; http://science.springer.de/nmee/bibs/6074004/60740419.htm.

Mortreux:1999:TMF

[MP99] P. Mortreux and M. Prévost. On totally monotonic families of sequences. *Numerische Mathematik*, 84(1):71–96, November 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9084001/90840071.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084001/90840071.pdf.

Markowich:1999:NAQ

[MPP99] Peter A. Markowich, Paola Pietra, and Carsten Pohl. Numerical approximation of quadratic observables of Schrödinger-type equations in the semi-classical limit. *Numerische Mathematik*, 81(4):595–630, February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810595.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810595.pdf.

Martin:1965:SDPb

[MPW65] R. S. Martin, G. Peters, and J. H. Wilkinson. Symmetric decomposition of a positive definite matrix. *Numerische Mathematik*, 7(5):362–383, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 9–30].

Martin:1966:IRS

[MPW66] R. S. Martin, G. Peters, and

J. H. Wilkinson. Iterative refinement of the solution of a positive definite system of equations. *Numerische Mathematik*, 8(3):203–216, May 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 31–44].

Martin:1970:ARH

[MPW70] R. S. Martin, G. Peters, and J. H. Wilkinson. The QR algorithm for real Hessenberg matrices. *Numerische Mathematik*, 14(3):219–231, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 359–371].

Maday:1981:LCS

[MQ81] Yvon Maday and Alfio Quarteroni. Legendre and Chebyshev spectral approximations of Burgers' equation. *Numerische Mathematik*, 37(3): 321–332, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marini:1989:RPD

[MQ89] L. D. Marini and A. Quarteroni. A relaxation procedure for domain decomposition methods using finite elements. *Numerische Mathematik*, 55(5): 575–598, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Motta:1990:PAS

[MRMW90] Santo Motta, Giovanni Russo, Hardy Moock, and Joachim Wick. Point approximation of a space-homogeneous transport equation. *Numerische Mathematik*, 56(8):763–774, February 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mejia:1995:PCC

[MRS95] Diego Mejía, Stephan Ruscheweyh, and Luis C. Salinas. Polynomials on the Cauchy circle. *Numerische Mathematik*, 69(4): 471–481, February 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069004/50690471.htm; http://science.springer.de/nmee/bibs/5069004/50690471.htm`.

Martin:1968:HTS

[MRW68] R. S. Martin, C. Reinsch, and J. H. Wilkinson. Householder's tridiagonalization of a symmetric matrix. *Numerische Mathematik*, 11(3):181–195, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 212–226].

Martin:1970:ABS

[MRW70] R. S. Martin, C. Reinsch, and J. H. Wilkinson. The QR algorithm for band symmetric matrices. *Numerische Mathematik*, 16(2):85–92, November

1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See also [WR71, pp. 266–272].

Micchelli:1976:ORS

[MRW76] C. A. Micchelli, T. J. Rivlin, and S. Winograd. The optimal recovery of smooth functions. *Numerische Mathematik*, 26(2):191–200, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

McNamee:1967:CFS

[MS67] J. McNamee and F. Stenger. Construction of fully symmetric numerical integration formulas. *Numerische Mathematik*, 10(4): 327–344, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer-Spasche:1972:CMS

[MS72] Rita Meyer-Spasche. A constructive method of solving the Lyapunov equation for complex matrices. *Numerische Mathematik*, 19(5):433–438, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer-Spasche:1973:MSS

[MS73] R. Meyer-Spasche. A method of solving the stability-problem for complex matrices. *Numerische Mathematik*, 20(5):364–371, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Menzel:1978:LPN

[MS78] Reinhard Menzel and Hubert Schwetlick. Zur Lösung parameterabhängiger nichtlinearer Gleichungen mit singulären Jacobi-Matrizen. (German) [On solving nonlinear equations depending on a real parameter in case of singular Jacobians]. *Numerische Mathematik*, 30(1):65–79, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Menzel:1985:PSL

[MS85] Reinhard Menzel and Hubert Schwetlick. Parametrization via secant length and application to path following. *Numerische Mathematik*, 47(3): 401–412, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marek:1990:CTW

[MS90] Ivo Marek and Daniel B. Szyld. Comparison theorems for weak splittings of bounded operators. *Numerische Mathematik*, 58(4): 387–397, November 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mills:1992:LCL

[MS92] T. M. Mills and S. J. Smith. The Lebesgue constant for Lagrange interpolation on equidistant nodes. *Numerische Mathematik*, 61(1):111–115, February 1992. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Marek:1994:LCE

[MS94] Ivo Marek and Daniel B. Szyld. Local convergence of the (exact and inexact) iterative aggregation method for linear systems and Markov operators. *Numerische Mathematik*, 69(1):61–82, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069001/40690061.htm; http://science.springer.de/nmee/bibs/4069001/40690061.htm`.

Moller:1995:MPE

[MS95a] H. Michael Möller and Hans J. Stetter. Multivariate polynomial equations with multiple zeros solved by matrix eigenproblems. *Numerische Mathematik*, 70(3): 311–329, May 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070003/50700311.htm; http://science.springer.de/nmee/bibs/5070003/50700311.htm`.

Morton:1995:EGM

[MS95b] K. W. Morton and E. Süli. Evolution-Galerkin methods and their supraconvergence. *Numerische Mathematik*, 71(3): 331–355, September 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071003/50710331.htm; http://science.springer.de/nmee/bibs/5071003/50710331.htm`.

Manteuffel:1996:HIM

[MS96] Thomas A. Manteuffel and Gerhard Starke. On hybrid iterative methods for nonsymmetric systems of linear equations. *Numerische Mathematik*, 73(4): 489–506, June 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073004/60730489.htm; http://science.springer.de/nmee/bibs/6073004/60730489.htm`.

McDonald:1998:BLF

[MS98] J. J. McDonald and H. Schneider. Block LU factorizations of M-matrices. *Numerische Mathematik*, 80(1): 109–130, July 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080001/80800109.htm; http://link.springer.de/link/service/journals/00211/papers/8080001/80800109.pdf; http://link.springer.de/link/service/journals/00211/papers/8080001/80800109.ps.gz`.

Mulansky:1999:CII

[MS99] Bernd Mulansky and Jochen W. Schmidt. Convex interval interpolation using a three-term staircase algorithm. *Numerische Mathematik*, 82(2):313–337, April 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082002/90820313.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082002/90820313.pdf`.

Meyer-Spasche:1991:DEF

[MSF91] Rita Meyer-Spasche and Bengt Fornberg. Discretization errors at free boundaries of the Grad-Schlüter-Shafranov equation. *Numerische Mathematik*, 59(7):683–710, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Metropolis:1967:SSN

[MSS67] N. Metropolis, M. L. Stein, and P. R. Stein. Stable states of a non-linear transformation. *Numerische Mathematik*, 10(1): 1–19, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Moss:1988:NEA

[MSW88] William F. Moss, Philip W. Smith, and Joseph D. Ward. Nonlinear eigenvalue approximation. *Numerische Mathematik*, 52(4):365–375, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morgan:1991:CSS

[MSW91] Alexander P. Morgan, Andrew J. Sommese, and Charles W. Wampler. Computing singular solutions to non-linear analytic systems. *Numerische Mathematik*, 58(7):669–684, February 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Morgan:1992:PSM

[MSW92] Alexander P. Morgan, Andrew J. Sommese, and Charles W. Wampler. A power series method for computing singular solutions to nonlinear analytic systems. *Numerische Mathematik*, 63(3):391–409, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mastin:1978:TTR

[MT78] C. Wayne Mastin and Joe F. Thompson. Transformation of three-dimensional regions onto rectangular regions by elliptic systems. *Numerische Mathematik*, 29(4):397–407, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

More:1989:ABC

[MT89] Jorge J. Moré and Gerardo Toraldo. Algorithms for bound constrained quadratic

programming problems. *Numerische Mathematik*, 55(4): 377–400, July 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marion:1990:NGM

[MT90] M. Marion and R. Temam. Nonlinear Galerkin methods: The finite elements case. *Numerische Mathematik*, 57(3): 205–226, May 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mandel:1996:CSM

[MT96] Jan Mandel and Radek Tezaur. Convergence of a substructuring method with Lagrange multipliers. *Numerische Mathematik*, 73 (4):473–487, June 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073004/60730473.htm; http://science.springer.de/nmee/bibs/6073004/60730473.htm`.

Mueller:1966:HMC

[Mue66] Dennis J. Mueller. Householder's method for complex matrices and eigensystems of Hermitian matrices. *Numerische Mathematik*, 8(1):72–92, March 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Muhlbach:1978:GNA

[Müh78] G. Mühlbach. The general Neville–Aitken-algorithm and some applications. *Numerische Mathematik*, 31(1):97–110, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Muhlbach:1979:GRR

[Müh79] G. Mühlbach. The general recurrence relation for divided differences and the general Newton-interpolation-algorithm with applications to trigonometric interpolation. *Numerische Mathematik*, 32(4): 393–408, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Muhlbach:1981:AAH

[Müh81] G. Mühlbach. An algorithmic approach to Hermite–Birkhoff interpolation. *Numerische Mathematik*, 37(3): 339–347, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Muhlbach:1985:TCM

[Müh85] G. Mühlbach. Two composition methods for solving certain systems of linear equations. *Numerische Mathematik*, 46(3): 339–349, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mueller:1968:ELA

[Mül68] Heinrich N. Müller. Zur Eindeutigkeit bei der linearen Approximation im allgemeinen sowie Tschebyscheffschen Fall. (German) [On the uniqueness of

the linear approximation in general as well as Chebyshev cases]. *Numerische Mathematik*, 11(2): 144–150, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Multhei:1979:SBDa

[Mül79a] H. N. Mülthei. Splineapproximationen von beliebigem Defekt zur numerischen Lösung gewöhnlicher Differentialgleichungen. I. (German) [Spline approximations of arbitrary defect for the numerical solution of ordinary differential equations. I]. *Numerische Mathematik*, 32 (2):147–157, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Multhei:1979:SBDb

[Mül79b] Heinrich N. Mülthei. Splineapproximationen von beliebigem Defekt zur numerischen Lösung gewöhnlicher Differentialgleichungen. II. (German) [Spline approximations of arbitrary defect for the numerical solution of ordinary differential equations]. *Numerische Mathematik*, 32(3): 343–358, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Multhei:1980:SBD

[Mül80] Heinrich N. Mülthei. Splineapproximationen von beliebigem Defekt zur numerischen Lösung gewöhnlicher Differentialgleichungen. III. (German) [Spline approximations of arbitrary defect for the numerical solution of ordinary differential equations. III]. *Numerische Mathematik*, 34(2):143–154, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Muller:1982:DME

[Mül82a] Rolf E. Müller. Discretization of multiparameter eigenvalue problems. *Numerische Mathematik*, 40(3):319–328, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Multhei:1982:MKN

[Mül82b] H. N. Mülthei. Maximale Konvergenzordnung bei der numerischen Lösung von Anfangswertproblemen mit Splines. (German) [Maximal order of convergence in the numerical solution of initial value problems with splines]. *Numerische Mathematik*, 39(3):449–463, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Medley:1968:SIGa

[MV68a] Helen I. Medley and Richard S. Varga. On smallest isolated Gerschgorin disks for eigenvalues. II. *Numerische Mathematik*, 11 (4):320–323, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Medley:1968:SIGb

[MV68b] Helen I. Medley and Richard S. Varga. On smallest isolated Gerschgorin disks for eigenvalues. III. *Numerische Mathematik*, 11 (5):361–369, June 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Marek:1969:NBS

[MV69] Ivo Marek and Richard S. Varga. Nested bounds for the spectral radius. *Numerische Mathematik*, 14(1):49–70, December 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Meyer:1980:SNI

[MV80] D. Meyer and K. Veselić. On some new inclusion theorems for the eigenvalues of partitioned matrices. *Numerische Mathematik*, 34(4):431–437, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mattheij:1976:EEM

[MvdS76] R. M. M. Mattheij and A. van der Sluis. Error estimates for Miller's algorithm. *Numerische Mathematik*, 26(1):61–78, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Mooney:1979:DCP

[MVW79] J. W. Mooney, H. Voss, and B. Werner. The dependence of critical parameter bounds on the monotonicity of a Newton sequence. *Numerische Mathematik*, 33(3):291–301, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Maehly:1960:TAKa

[MW60a] H. Maehly and Ch. Witzgall. Tschebyscheff-Approximationen in kleinen Intervallen. I. (German) [Chebyshev approximations in small intervals. I]. *Numerische Mathematik*, 2(1):142–150, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Maehly:1960:TAKb

[MW60b] H. Maehly and Ch. Witzgall. Tschebyscheff-Approximationen in kleinen Intervallen. II: Stetigkeitssätze für gebrochen rationale Approximationen. (German) [Chebyshev approximations in small intervals. II. stability conditions for broken rational approximations]. *Numerische Mathematik*, 2(1):293–307, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Martin:1965:SDPa

[MW65] R. S. Martin and J. H. Wilkinson. Symmetric decomposition of positive definite band matrices. *Numerische Mathematik*, 7 (5):355–361, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 50–56].

Martin:1967:SSU

[MW67] R. S. Martin and J. H. Wilkinson. Solution of symmetric and unsymmetric band equations and the calculation of eigenvectors of band matrices. *Numerische Mathematik*, 9(4): 279–301, February 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 70–92].

Martin:1968:IA

[MW68a] R. S. Martin and J. H. Wilkinson. The implicit QL algorithm. *Numerische Mathematik*, 12(5): 377–383, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 241–248], where A. A. Dubrulle is listed as the lead author.

Martin:1968:RSE

[MW68b] R. S. Martin and J. H. Wilkinson. Reduction of the symmetric eigenproblem $Ax = \lambda Bx$ and related problems to standard form. *Numerische Mathematik*, 11(2):99–110, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 303–314].

Martin:1968:MAC

[MW68c] Roger S. Martin and J. H. Wilkinson. The modified LR algorithm for complex Hessenberg matrices. *Numerische Mathematik*, 12(5):369–376, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 396–403].

Martin:1968:SRG

[MW68d] Roger S. Martin and J. H. Wilkinson. Similarity reduction of a general matrix to Hessenberg form. *Numerische Mathematik*, 12(5):349–368, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 339–358].

Maitre:1999:TEB

[MW99] E. Maitre and P. Witomski. Transport equation with boundary conditions for free surface localization. *Numerische Mathematik*, 84(2):275–303, December 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084002/90840275.htm`; `http://link.springer-ny.com/link/service/journals/00211/papers/9084002/90840275.pdf`.

Midy:1979:EMQ

[MY79] P. Midy and Y. Yakovlev. An extrapolation method for the quadrature of functions with singularities in the vicinity of the interval of integration. *Numerische Mathematik*, 32(2): 183–196, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nabben:1992:CMW

[Nab92] Reinhard Nabben. On a class of matrices which arise in the numerical solution of Euler equations. *Numerische Mathematik*, 63(3):411–431, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nagler:1963:PST

[Nag63] H. Nagler. On a property of simplex tableaux in the transportation problem. *Numerische Mathematik*, 4:398–402, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nakao:1985:EEG

[Nak85] Mitsuhiro T. Nakao. Error estimates of a Galerkin method for some nonlinear Sobolev equations in one space dimension. *Numerische Mathematik*, 47(1): 139–157, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1969:EGE

[Nat69a] Frank Natterer. Einschließungen für die großen Eigenwerte gewönlicher Differentialgleichungen zweiter und vierter Ordnung. (German) [Bounds for the large eigenvalues of second- and fourth-order ordinary differential equations]. *Numerische Mathematik*, 13(1): 78–93, March 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1969:NBS

[Nat69b] Frank Natterer. Numerische Behandlung singulärer Sturm–Liouville-Probleme. (German) [Numerical treatment of singular Sturm–Liouville problems]. *Numerische Mathematik*, 13(5): 434–447, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1970:SEG

[Nat70] Frank Natterer. Schranken für die Eigenwerte gewöhnlicher Differentialgleichungen durch Spline-Approximation. (German) [Bounds for the eigenvalue of ordinary differential equations by spline approximation]. *Numerische Mathematik*, 14(4): 346–354, March 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1971:SNG

[Nat71] Frank Natterer. Schranken für die Norm der Greenschen Funktion gewöhnlicher Differentialoperatoren. (German) [Bounds for the norm of the Green's function of ordinary differential operators]. *Numerische Mathematik*, 17(5):402–408, October 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1975:DSR

[Nat75a] Frank Natterer. Das Differenzenverfahren für singuläre Rand-Eigenwertaufgaben gewönlicher

Differentialgleichungen. (German) [The difference method for singular boundary/eigenvalues of ordinary differential equations]. *Numerische Mathematik*, 23(5):387–409, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1975:PKF

[Nat75b] Frank Natterer. Uber die punktweise Konvergenz Finiter Elemente. (German) [On the pointwise convergence of finite elements]. *Numerische Mathematik*, 25(1):67–77, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1977:RSG

[Nat77] Frank Natterer. Regularisierung schlecht gestellter Probleme durch Projectionsverfahren. (German) [Regularization of ill-posed problems by projection methods]. *Numerische Mathematik*, 28(3): 329–341, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1978:NIR

[Nat78] Frank Natterer. Numerical inversion of the Radon transform. *Numerische Mathematik*, 30(1): 81–91, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1979:IAR

[Nat79] Frank Natterer. On the inversion of the attenuated Radon transform. *Numerische Mathematik*, 32(4):431–438, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1985:FRT

[Nat85] Frank Natterer. Fourier reconstruction in tomography. *Numerische Mathematik*, 47(3): 343–353, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Naiman:1997:NCG

[NBE97] Aaron E. Naiman, Ivo M. Babuška, and Howard C. Elman. A note on conjugate gradient convergence. *Numerische Mathematik*, 76(2): 209–230, April 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076002/70760209.htm; http://science.springer.de/nmee/bibs/7076002/70760209.htm`.

Nashed:1993:CNL

[NC93] M. Z. Nashed and X. Chen. Convergence of Newton-like methods for singular operator equations using outer inverses. *Numerische Mathematik*, 66(2): 235–257, November 1993. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Nedelec:1980:MFE

[Néd80] J.-C. Nédélec. Mixed finite elements in $\mathbf{r}^3$. *Numerische Mathematik*, 35(3):315–341, October 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nedelec:1982:EFM

[Néd82] J.-C. Nédélec. Éléments finis mixtes incompressibles pour l'équation de Stokes dans $\mathbf{r}^3$. (French) [Incompressible mixed finite elements for the Stokes equation in $\mathbf{r}^3$]. *Numerische Mathematik*, 39(1):97–112, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nedelec:1986:NFM

[Néd86] J.-C. Nédélec. A new family of mixed finite elements in $\mathbf{r}^3$. *Numerische Mathematik*, 50(1): 57–81, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

NegronMarrero:1990:NMD

[Neg90] Pablo V. Negrón Marrero. A numerical method for detecting singular minimizers of multidimensional problems in nonlinear elasticity. *Numerische Mathematik*, 58(2):135–144, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nemeth:1965:CEF

[Ném65] G. Németh. Chebyshev expansions for Fresnel integrals. *Numerische Mathematik*, 7(4):310–312, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Neubuser:1960:UUE

[Neu60] J. Neubüser. Untersuchungen des Untergruppenverbandes endlicher Gruppen auf einer programmgesteuerten elektronischen Dualmaschine. (German) [Investigation of subroup units of finite groups with a programmable electronic dual machine]. *Numerische Mathematik*, 2(1):280–292, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Neubuser:1961:BUE

[Neu61] J. Neubüser. Bestimmung der Untergruppenverbände endlicher p-Gruppen auf einer programmgesteuerten elektronischen Dualmaschine. (German) [Determination of subgroups of finite p-groups on a program-controlled electronic Dual machine]. *Numerische Mathematik*, 3(1):271–278, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=271`.

Neubauer:1963:EUM

[Neu63] Gerhard Neubauer. Eine empirische Untersuchung zur Mertensschen Funktion. (German) [An empirical investigation of the Merten function]. *Numerische Mathematik*, 5(1): 1–13, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nevanlinna:1977:BGE

[Nev77] Olavi Nevanlinna. On the behaviour of global errors at infinity in the numerical integration of stable initial value problems. *Numerische Mathematik*, 28(4):445–454, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nevanlinna:1990:LAP

[Nev90a] Olavi Nevanlinna. Linear acceleration of Picard–Lindelöf iteration. *Numerische Mathematik*, 57(2):147–156, April 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nevanlinna:1990:PBP

[Nev90b] Olavi Nevanlinna. Power bounded prolongations and Picard–Lindelöf iteration. *Numerische Mathematik*, 58(5): 479–501, December 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nichols:1969:GCO

[NF69] Nancy K. Nichols and L. Fox. Generalised consistent ordering and the optimum successive overrelaxation factor. *Numerische Mathematik*, 13(5): 425–433, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nickel:1966:NBW

[Nic66a] Karl Nickel. Die numerische Berechnung der Wurzeln eines Polynoms. (German) [The numerical computation of polynomial roots]. *Numerische Mathematik*, 9(1):80–98, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nickel:1966:UNF

[Nic66b] Karl Nickel. Über die Notwendigkeit einer Fehlerschranken-Arithmetik für Rechenautomaten. (German) [On the need for interval arithmetic on computers]. *Numerische Mathematik*, 9(1):69–79, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nicolaides:1974:GAS

[Nic74] R. A. Nicolaides. On a geometrical aspect of SOR and the theory of consistent ordering for positive definite matrices. *Numerische Mathematik*, 23(2):99–104, April 1974. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Nicolaides:1975:LCC

[Nic75] R. A. Nicolaides. On the local convergence of certain two step iterative procedures. *Numerische Mathematik*, 24(2):95–101, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nielson:1973:BSF

[Nie73a] Gregory M. Nielson. Bivariate spline functions and the approximation of linear functionals. *Numerische Mathematik*, 21 (2):138–160, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niethammer:1973:NVA

[Nie73b] Wilhelm Niethammer. Ein numerisches Verfahren zur analytischen Fortsetzung. (German) [A numerical method for analytical continuation]. *Numerische Mathematik*, 21(1):81–92, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niethammer:1980:NAE

[Nie80] Wilhelm Niethammer. Numerical application of Euler's series transformation and its generalizations. *Numerische Mathematik*, 34(3):271–283, September 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niederreiter:1985:STP

[Nie85] Harald Niederreiter. The serial test for pseudo-random numbers generated by the linear congruential method. *Numerische Mathematik*, 46(1): 51–68, March 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niethammer:1989:SMP

[Nie89] Wilhelm Niethammer. The SOR method on parallel computers. *Numerische Mathematik*, 56(2/3):247–254, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nievergelt:1991:ASA

[Nie91] Yves Nievergelt. Aitken's and Steffensen's accelerations in several variables. *Numerische Mathematik*, 59(3): 295–310, June 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nievergelt:1995:BHE

[Nie95] Yves Nievergelt. Bisection hardly ever converges linearly. *Numerische Mathematik*, 70(1): 111–118, March 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070001/50700111.htm; http://science.springer.de/nmee/bibs/5070001/50700111.htm`.

Niijima:1984:UCD

[Nii84] Koichi Niijima. A uniformly convergent difference scheme for a semilinear singular perturbation problem. *Numerische Mathematik*, 43(2): 175–198, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niijima:1985:DSE

[Nii85] Koichi Niijima. On a difference scheme of exponential type for a nonlinear singular perturbation problem. *Numerische Mathematik*, 46(4):521–539, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niijima:1990:PEE

[Nii90] Koichi Niijima. Pointwise error estimates for a streamline diffusion finite element scheme. *Numerische Mathematik*, 56(7): 707–719, January 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nikolov:1992:MSQ

[Nik92] Geno Nikolov. On the monotonicity of sequences of quadrature formulae. *Numerische Mathematik*, 62(4):557–565, September 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ninham:1966:GFD

[Nin66] B. W. Ninham. Generalised functions and divergent integrals. *Numerische Mathematik*, 8(5):444–457, August 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nitsche:1962:ATA

[Nit62] Johannes C. C. Nitsche. Über die Abhängigkeit der Tschebyscheffschen Approximierenden einer differenzierbaren Funktion vom Intervall. (German) [On the relation of Chebyshev approximations for a differentiable interval function]. *Numerische Mathematik*, 4:262–276, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nitsche:1968:KQO

[Nit68] Joachim A. Nitsche. Ein Kriterium für die Quasi-Optimalität des Titzschen Verfahrens. (German) [A criterion for the quasi-optimality of Titzche methods]. *Numerische Mathematik*, 11(4): 346–348, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nitsche:1969:ISF

[Nit69a] J. Nitsche. Interpolation in Sobolevschen Funktionenräumen. (German) [Interpolation in Sobolev function spaces]. *Numerische Mathematik*, 13(4): 334–343, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nitsche:1969:VRS

[Nit69b] Joachim A. Nitsche. Verfahren von Ritz und Spline-

Interpolation bei Sturm–Liouville-Randwertproblemen. (German) [Ritz methods and spline interpolation of Sturm–Liouville boundary value problems]. *Numerische Mathematik*, 13(3): 260–265, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nitsche:1970:KNB

[Nit70] J. Nitsche. Zur Konvergenz von Näherungsverfahren bezüglich verschiedener Normen. (German) [On the convergence of approximation processes with respect to various norms]. *Numerische Mathematik*, 15(3): 224–228, July 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nitsche:1976:ERB

[Nit76] J. A. Nitsche. Der Einfluß von Randsingularitäten beim Ritzschen Verfahren. (German) [Solution effects of the Ritz method]. *Numerische Mathematik*, 25(3):263–278, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Jin:1999:PPC

[nJyH99] Qi nian Jin and Zong yi Hou. On an a posteriori parameter choice strategy for Tikhonov regularization of nonlinear ill-posed problems. *Numerische Mathematik*, 83(1):139–159, July 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083001/90830139.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083001/90830139.pdf`.

Negron-Marrero:1989:NCC

[NMC89] Pablo V. Negrón-Marrero and Carlos Carbonera. The numerical computation of compressed states of nonlinearly elastic anisotropic plates. *Numerische Mathematik*, 56(1):93–107, September 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nelson:1987:GPM

[NN87] Stuart Nelson and Michael Neumann. Generalizations of the projection method with applications to SOR theory for Hermitian positive semidefinite linear systems. *Numerische Mathematik*, 51(2):123–141, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nataf:1997:CRS

[NN97] F. Nataf and F. Nier. Convergence rate of some domain decomposition methods for overlapping and nonoverlapping subdomains. *Numerische Mathematik*, 75(3):357–377, January 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075003/70750357.`

htm; http://science.springer.de/nmee/bibs/7075003/70750357.htm.

Noltemeier:1968:A

[NO68] H. Noltemeier and M. Ost. Zum Auswahlproblem. (German) [On the selection problem]. *Numerische Mathematik*, 12(5): 431–434, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nochetto:1988:SEE

[Noc88] Ricardo H. Nochetto. Sharp L^∞-error estimates for semilinear elliptic problems with free boundaries. *Numerische Mathematik*, 54(3):243–255, December 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nochetto:1989:PAF

[Noc89] Ricardo H. Nochetto. Pointwise accuracy of a finite element method for nonlinear variational inequalities. *Numerische Mathematik*, 54(6):601–618, March 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Noda:1971:NCM

[Nod71] Takashi Noda. Note on the computation of the maximal eigenvalue of a non-negative irreducible matrix. *Numerische Mathematik*, 17(5):382–386, October 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Norsett:1975:PRA

[Nør75] Syvert P. Nørsett. C-polynomials for rational approximation to the exponential function. *Numerische Mathematik*, 25(1): 39–56, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Notaris:1990:ENG

[Not90] Sotirios E. Notaris. The error norm of Gaussian quadrature formulae for weight functions of Bernstein–Szegő type. *Numerische Mathematik*, 57(3): 271–283, May 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Notaris:1993:EBG

[Not93a] Sotirios E. Notaris. Error bounds for Gauss–Kronrod quadrature formulae of analytic functions. *Numerische Mathematik*, 64(3):371–380, March 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Notaris:1993:ENG

[Not93b] Sotirios E. Notaris. The error norm of Gauss–Lobatto quadrature formulae for weight functions of Bernstein–Szegő type. *Numerische Mathematik*, 64(3): 381–393, March 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Notay:1993:CRC

[Not93c] Yvan Notay. On the convergence rate of the conjugate gradients in presence of rounding

errors. *Numerische Mathematik*, 65(3):301–317, July 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Notay:1998:UAI

[Not98] Y. Notay. Using approximate inverses in algebraic multilevel methods. *Numerische Mathematik*, 80(3):397–417, September 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080003/80800397.htm; http://link.springer.de/link/service/journals/00211/papers/8080003/80800397.pdf; http://link.springer.de/link/service/journals/00211/papers/8080003/80800397.ps.gz`.

Novak:1986:APE

[Nov86] Erich Novak. The average a posteriori error of numerical methods. *Numerische Mathematik*, 50(2):245–252, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Novak:1988:SPQ

[Nov88] Erich Novak. Stochastic properties of quadrature formulas. *Numerische Mathematik*, 53(5): 609–620, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Neumann:1978:CNM

[NP78] M. Neumann and R. J. Plemmons. Convergent nonnegative matrices and iterative methods for consistent linear systems. *Numerische Mathematik*, 31(3): 265–279, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Neckermann:1968:UAD

[NR68] L. Neckermann and P. O. Runck. Über Approximationseigenschaften differenzierter Lagrangescher Interpolationspolynome mit Jacobischen Abszissen. (German) [On approximate eigenvalues of differentiated Lagrangian interpolation polynomials with Jacobian abscissas]. *Numerische Mathematik*, 12(3):159–169, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Novo:1992:SRO

[NR92] Sylvia Novo and Jesús Rojo. Some remarks on an ODE-solver of Kirchgraber. *Numerische Mathematik*, 61(2): 261–264, March 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nurnberger:1995:BSI

[NR95] G. Nürnberger and Th. Riessinger. Bivariate spline interpolation at grid points. *Numerische Mathematik*, 71(1):91–119, July 1995. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5071001/50710091.htm; http://science.springer.de/nmee/bibs/5071001/50710091.htm.

Novak:1996:HDI

[NR96] Erich Novak and Klaus Ritter. High-dimensional integration of smooth functions over cubes. *Numerische Mathematik*, 75(1): 79–97, November 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6075001/60750079.htm; http://science.springer.de/nmee/bibs/6075001/60750079.htm.

Nirschl:1964:BFV

[NS64] N. Nirschl and H. Schneider. The Bauer fields of values of a matrix. *Numerische Mathematik*, 6(1):355–365, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Neittaanmaki:1981:FEA

[NS81] P. Neittaanmäki and J. Saranen. On finite element approximation of the gradient for solution of Poisson equation. *Numerische Mathematik*, 37(3): 333–337, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[NS83a] **Nurnberger:1983:ABS**

Günther Nürnberger and Manfred Sommer. Alternation for best spline approximations. *Numerische Mathematik*, 41(2): 207–221, June 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[NS83b] **Nurnberger:1983:RTA**

Günther Nürnberger and Manfred Sommer. A Remez type algorithm for spline functions. *Numerische Mathematik*, 41(1): 117–146, April 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[NS91] **Niezgodka:1991:CNA**

Marek Niezgódka and Jürgen Sprekels. Convergent numerical approximations of the thermomechanical phase transitions in shape memory alloys. *Numerische Mathematik*, 58(7): 759–778, February 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

[NS95a] **Najib:1995:DAS**

K. Najib and D. Sandri. On a decoupled algorithm for solving a finite element problem for the approximation of viscoelastic fluid flow. *Numerische Mathematik*, 72(2):223–238, December 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/

00211/bibs/5072002/50720223.htm; http://science.springer.de/nmee/bibs/5072002/50720223.htm.

Nipp:1995:IMG

[NS95b] K. Nipp and D. Stoffer. Invariant manifolds and global error estimates of numerical integration schemes applied to stiff systems of singular perturbation type. I. RK-methods. *Numerische Mathematik*, 70(2): 245–257, April 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5070002/50700245.htm; http://science.springer.de/nmee/bibs/5070002/50700245.htm.

Nipp:1996:IMG

[NS96] K. Nipp and D. Stoffer. Invariant manifolds and global error estimates of numerical integration schemes applied to stiff systems of singular perturbation type. II. linear multistep methods. *Numerische Mathematik*, 74(3):305–323, September 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074003/60740305.htm; http://science.springer.de/nmee/bibs/6074003/60740305.htm.

Nurnberger:1986:ASA

[NSS86] G. Nürnberger, M. Sommer, and H. Strauß. An algorithm for segment approximation. *Numerische Mathematik*, 48(4):463–477, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nurnberger:1983:IGS

[NSSS83] G. Nürnberger, L. L. Schumaker, M. Sommer, and H. Strauss. Interpolation by generalized splines. *Numerische Mathematik*, 42(2): 195–212, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nelson:1980:CTD

[NV80a] P. Nelson, Jr. and H. D. Victory, Jr. Convergence of two-dimensional Nyström discrete-ordinates in solving the linear transport equation. *Numerische Mathematik*, 34(4): 353–370, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Neumann:1980:SSU

[NV80b] Michael Neumann and Richard S. Varga. On the sharpness of some upper bounds for the spectral radii of S.O.R. iteration matrices. *Numerische Mathematik*, 35(1):69–79, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niethammer:1983:ASI

[NV83] W. Niethammer and R. S. Varga. The analysis of k-step iterative methods for linear systems from summability theory. *Numerische Mathematik*, 41(2): 177–206, June 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Nochetto:1996:CEE

[NV96] Ricardo H. Nochetto and Claudio Verdi. Combined effect of explicit time-stepping and quadrature for curvature driven flows. *Numerische Mathematik*, 74(1): 105–136, July 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074001/60740105.htm; http://science.springer.de/nmee/bibs/6074001/60740105.htm`.

Neunzert:1973:TAV

[NW73] H. Neunzert and J. Wick. Die Theorie der asymptotischen Verteilung und die numerische Lösung von Integrodifferentialgleichungen. (German) [The theory of asymptotic distribution and the numerical solution of integrodifferential equations]. *Numerische Mathematik*, 21(3):234–243, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Natterer:1974:EML

[NW74] Frank Natterer and Bodo Werner. Eine Erweiterung des Maximumsprinzips für den Laplaceschen Operator. (German) [An extension of the maximum principle for the Laplace operator]. *Numerische Mathematik*, 22(2):149–155, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Noor:1976:EBF

[NW76] M. A. Noor and J. R. Whiteman. Error bounds for finite element solutions of mildly nonlinear elliptic boundary value problems. *Numerische Mathematik*, 26(1):107–116, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Norsett:1979:OCR

[NW79] Syvert P. Nørsett and Arne Wolfbrandt. Order conditions for Rosenbrock type methods. *Numerische Mathematik*, 32(1): 1–15, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Norsett:1981:PCR

[NW81] S. P. Nørsett and G. Wanner. Perturbed collocation and Runge–Kutta methods. *Numerische Mathematik*, 38(2): 193–208, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niethammer:1984:ALP

[NW84] W. Niethammer and H. Wietschorke. On the acceleration of limit periodic continued fractions. *Numerische Mathematik*, 44(1):129–137, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Niederdrenk:1983:GSS

[NY83] Klaus Niederdrenk and Harry Yserentant. Die gleichmäßige Stabilität singulär gestörter diskreter und kontinuierlicher Randwertprobleme. (German) [The uniform stability of singularly perturbed discrete and continuous boundary value problems]. *Numerische Mathematik*, 41(2):223–253, June 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Omodei:1975:SRP

[OA75] B. J. Omodei and R. S. Anderssen. Stability of the Rayleigh–Ritz procedure for nonlinear two-point boundary value problems. *Numerische Mathematik*, 24(1):27–38, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

OCinneide:1993:EPT

[O'C93] Colm Art O'Cinneide. Entry-wise perturbation theory and error analysis for Markov chains. *Numerische Mathematik*, 65(1): 109–120, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

OCinneide:1996:REB

[O'C96] Colm Art O'Cinneide. Relative-error bounds for the LU decomposition via the GTH algorithm. *Numerische Mathematik*, 73(4):507–519, June 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073004/60730507.htm; http://science.springer.de/nmee/bibs/6073004/60730507.htm`.

Olsen:1995:BSC

[OD95] Elwood T. Olsen and Jim Douglas, Jr. Bounds on spectral condition numbers of matrices arising in the p-version of the finite element method. *Numerische Mathematik*, 69(3):333–352, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069003/50690333.htm; http://science.springer.de/nmee/bibs/5069003/50690333.htm`.

Ogata:1989:MCM

[Oga89] Yosihiko Ogata. A Monte Carlo method for high-dimensional integration. *Numerische Mathematik*, 55(2):137–157, May 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oliver:1967:REP

[Oli67] J. Oliver. Relative error propagation in the recursive solution of linear recurrence relations. *Numerische Mathematik*, 9(4): 323–340, February 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oliver:1968:EOE

[Oli68a] J. Oliver. An extension of Olver's error estimation technique for linear recurrence relations. *Numerische Mathematik*, 12(5):459–467, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oliver:1968:NSL

[Oli68b] J. Oliver. The numerical solution of linear recurrence relations. *Numerische Mathematik*, 11(4):349–360, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oliver:1971:EEM

[Oli71] J. Oliver. The efficiency of extrapolation methods for numerical integration. *Numerische Mathematik*, 17(1):17–32, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oliveira:1980:CRC

[Oli80] F. Aleixo Oliveira. Collocation and residual correction. *Numerische Mathematik*, 36(1):27–31, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Opfer:1988:DCS

[OO88] Gerhard Opfer and Hans Joachim Oberle. The derivation of cubic splines with obstacles by methods of optimization and optimal control. *Numerische Mathematik*, 52(1):17–31, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oberle:1998:NSP

[OO98] H. J. Oberle and G. Opfer. Nonnegative splines, in particular of degree five. *Numerische Mathematik*, 79(3): 427–450, May 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079003/80790427.htm`; `http://science.springer.de/nmee/bibs/8079003/80790427.htm`.

Oettli:1964:CAS

[OP64] W. Oettli and W. Prager. Compatibility of approximate solution of linear equations with given error bounds for coefficients and right-hand sides. *Numerische Mathematik*, 6(1):405–409, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oberle:1981:NTD

[OP81] H. J. Oberle and H. J. Pesch. Numerical treatment of delay differential equations by

Hermite interpolation. *Numerische Mathematik*, 37(2): 235–255, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oliker:1988:NSE

[OP88] V. I. Oliker and L. D. Prussner. On the numerical solution of the equation $(\partial^2 z/\partial x^2)(\partial^2 z/\partial y^2) - ((\partial^2 z/\partial x \partial y))^2 = f$ and its discretizations. I. *Numerische Mathematik*, 54(3): 271–293, December 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oukit:1996:MFE

[OP96] A. Oukit and R. Pierre. Mixed finite element for the linear plate problem: The Hermann-Miyoshi model revisited. *Numerische Mathematik*, 74(4):453–477, October 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074004/60740453.htm; http://science.springer.de/nmee/bibs/6074004/60740453.htm`.

Opfer:1979:NEP

[Opf79] Gerhard Opfer. New extremal properties for constructing conformal mappings. *Numerische Mathematik*, 32(4): 423–429, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Opfer:1980:CMP

[Opf80] Gerhard Opfer. Conformal mappings onto prescribed regions via optimization techniques. *Numerische Mathematik*, 35(2): 189–200, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Opfer:1982:SCA

[Opf82] Gerhard Opfer. Solving complex approximation problems by semiinfinite-finite optimization techniques: a study of convergence. *Numerische Mathematik*, 39(3):411–420, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Omladic:1976:NTQ

[OPS76] M. Omladič, S. Pahor, and A. Suhadolc. On a new type of quadrature formulas. *Numerische Mathematik*, 25(4): 421–426, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

ORiordan:1984:SPF

[O'R84] Eugene O'Riordan. Singularly perturbed finite element methods. *Numerische Mathematik*, 44(3):425–434, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

OReilly:1987:USS

[O'R87] M. J. O'Reilly. A uniform scheme for the singularly per-

turbed Riccati equation. *Numerische Mathematik*, 50(4): 483–501, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ortega:1963:EAH

[Ort63] James M. Ortega. An error analysis of Householder's method for the symmetric eigenvalue problem. *Numerische Mathematik*, 5(1):211–225, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ortloff:1986:AVK

[Ort86] H. Ortloff. Asymptotisches Verhalten und Konvergenzbeschleunigung von Iterationsfolgen. (German) [Asymptotic behavior and acceleration of convergence of iteration sequences]. *Numerische Mathematik*, 49(5): 545–559, September 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Osada:1996:ATA

[Osa96] Naoki Osada. An acceleration theorem for the ρ-algorithm. *Numerische Mathematik*, 73(4): 521–531, June 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073004/60730521.htm; http://science.springer.de/nmee/bibs/6073004/60730521.htm`.

Osborne:1965:NNS

[Osb65] M. R. Osborne. A note on the numerical solution of a periodic parabolic problem. *Numerische Mathematik*, 7(2):155–158, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Osborne:1967:NSP

[Osb67] M. R. Osborne. The numerical solution of a periodic parabolic problem subject to a nonlinear boundary condition. *Numerische Mathematik*, 10(1): 76–79, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Osborne:1968:NSP

[Osb68] M. R. Osborne. The numerical solution of a periodic parabolic problem subject to a nonlinear boundary condition. II. *Numerische Mathematik*, 12(4):280–287, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Osborn:1969:NPT

[Osb69] John E. Osborn. A note on a perturbation theorem for the matrix eigenvalue problem. *Numerische Mathematik*, 13(2): 152–153, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ortega:1990:NSC

[OSS90] T. Ortega and J. M. Sanz-Serna. Nonlinear stability and conver-

gence of finite-difference methods for the "good" Boussinesq equation. *Numerische Mathematik*, 58(2):215–229, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Oswald:1992:HBM

[Osw92] P. Oswald. On a hierarchical basis multilevel method with nonconforming p1 elements. *Numerische Mathematik*, 62(2): 189–212, July 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Osborne:1969:EBA

[OW69] M. R. Osborne and G. A. Watson. On estimating best approximations of functions defined by differential equations. *Numerische Mathematik*, 13(3): 199–206, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Owens:1977:ABA

[Owe77] R. W. Owens. An algorithm for best approximate solutions of Ax=b with a smooth strictly convex norm. *Numerische Mathematik*, 29(1):83–91, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Paardekooper:1971:EAS

[Paa71] M. H. C. Paardekooper. An eigenvalue algorithm for skew-symmetric matrices. *Numerische Mathematik*, 17(3): 189–202, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Paget:1981:NEH

[Pag81] D. F. Paget. The numerical evaluation of Hadamard finite-part integrals. *Numerische Mathematik*, 36(4):447–453, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pallaschke:1976:ODI

[Pal76] Diethard Pallaschke. Optimale Differentiations- und Integrationsformeln in $C_0[a, b]$. (German) [Optimal differentiation and integration formulae in $C_0(a, b)$]. *Numerische Mathematik*, 26(2):201–210, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pallaschke:1977:KOD

[Pal77] Diethard Pallaschke. Konvergenz optimaler Differentiationsformeln. (German) [Convergence of optimal differentiation formulas]. *Numerische Mathematik*, 27(4):421–426, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Palencia:1999:BEM

[Pal99] C. Palencia. Backward Euler method for abstract time-dependent parabolic equations with variable domains. *Numerische Mathematik*, 82(3): 471–490, May 1999. CODEN NUMMA7. ISSN 0029-599X

(print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082003/90820471.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082003/90820471.pdf.

Pao:1985:MIM

[Pao85] C. V. Pao. Monotone iterative methods for finite difference system of reaction-diffusion equations. *Numerische Mathematik*, 46(4):571–586, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pao:1987:NSS

[Pao87] C. V. Pao. Numerical solutions for some coupled systems of nonlinear boundary value problems. *Numerische Mathematik*, 51(4): 381–394, August 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pao:1995:BMI

[Pao95] C. V. Pao. Block monotone iterative methods for numerical solutions of nonlinear elliptic equations. *Numerische Mathematik*, 72(2):239–262, December 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5072002/50720239.htm; http://science.springer.de/nmee/bibs/5072002/50720239.htm.

Pao:1998:AMI

[Pao98] C. V. Pao. Accelerated monotone iterative methods for finite difference equations of reaction-diffusion. *Numerische Mathematik*, 79(2): 261–281, April 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079002/80790261.htm; http://science.springer.de/nmee/bibs/8079002/80790261.htm.

Parter:1959:SLI

[Par59] Seymour V. Parter. On "two-line" iterative methods for the Laplace and biharmonic difference equations. *Numerische Mathematik*, 1(1):240–252, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=240.

Parter:1961:SLI

[Par61] Seymour V. Parter. "multi-line" iterative methods for elliptic difference equations and fundamental frequencies. *Numerische Mathematik*, 3(1):305–319, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://www.

springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=305.

Parter:1962:ONS

[Par62a] Seymour V. Parter. An observation on the numerical solution of difference equations and a theorem of Szegő. *Numerische Mathematik*, 4:293–295, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Parter:1962:SCP

[Par62b] Seymour V. Parter. Stability, convergence, and pseudo-stability of finite-difference equations for an over-determined problem. *Numerische Mathematik*, 4:277–292, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Parlett:1965:CA

[Par65a] Beresford Parlett. Convergence of the QR algorithm. *Numerische Mathematik*, 7(2):187–193, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Parter:1965:MNE

[Par65b] Seymour V. Parter. Mildly nonlinear elliptic partial differential equations and their numerical solution. I. *Numerische Mathematik*, 7(2):113–128, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Parlett:1967:CCQ

[Par67] Beresford Parlett. Correction to convergence of the QR algorithm. *Numerische Mathematik*, 10(2):163–164, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Parlett:1973:PGM

[Par73] B. N. Parlett. Présentation géométrique des méthodes de calcul des valeurs propres. (French) [Geometric presentation of methods for calculation of eigenvalues]. *Numerische Mathematik*, 21(3): 223–233, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Parter:1988:EMM

[Par88] Seymour V. Parter. Estimates for multigrid methods based on red-black Gauss–Seidel smoothings. *Numerische Mathematik*, 52(6):701–723, June 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Patterson:1976:HPM

[Pat76] T. N. L. Patterson. On high precision methods for the evaluation of Fourier integrals with finite and infinite limits. *Numerische Mathematik*, 27(1):41–52, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Patterson:1993:MOQ

[Pat93] T. N. L. Patterson. Modified optimal quadrature extensions. *Numerische Mathematik*, 64(4): 511–520, April 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Paulik:1977:EOQ

[Pau77] Augustin Paulik. Zur existenz optimaler Quadraturformeln mit freien Knoten bei Integration analytischer Funktionen. (German) [On the existence of optimal integration formulas with free nodes for analytic functions]. *Numerische Mathematik*, 27(4):395–405, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Paumier:1981:MNPa

[Pau81a] Jean-Claude Paumier. Une méthode numérique pour le calcul des points de retournement. application à un problème aux limites non-linéaire. I. étude théorique et expérimentation de la méthode. (French) [A numerical method for the calculation of turning points. application to a problem at nonlinear limits. I. theoretical and experimental study of the method]. *Numerische Mathematik*, 37(3): 433–444, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Paumier:1981:MNPb

[Pau81b] Jean-Claude Paumier. Une méthode numérique pour le calcul des points de retournement. application à un problème aux limites non-linéaire. II. analyse numérique d'un problème aux limites non-linéaire. (French) [A numerical method for the calculation of turning points. application to a problem at non-linear limits. II. numerical analysis of a problem at nonlinear limits.]. *Numerische Mathematik*, 37(3): 445–452, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pavarino:1994:ASM

[Pav94a] Luca F. Pavarino. Additive Schwarz methods for the p-version finite element method. *Numerische Mathematik*, 66(4): 493–515, January 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pavarino:1994:SML

[Pav94b] Luca F. Pavarino. Schwarz methods with local refinement for the p-version finite element method. *Numerische Mathematik*, 69(2):185–211, December 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069002/40690185.htm; http://science.springer.de/nmee/bibs/4069002/40690185.htm`.

Pissanetzky:1981:NEO

[PB81] S. Pissanetzky and F. G. Basombrío. On the numerical er-

rors in one-step algorithms for time dependent problems. *Numerische Mathematik*, 38(1):31–37, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Peisker:1987:CGM

[PB87] P. Peisker and D. Braess. A conjugate gradient method and a multigrid algorithm for Morley's finite element approximation of the biharmonic equation. *Numerische Mathematik*, 50(5):567–586, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Puschmann:1983:CPR

[PC83] Heinrich Puschmann and Joaquín Cortés. The coordinex problem and its relation to the conjecture of Wilkinson. *Numerische Mathematik*, 42(3):291–297, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Petkovic:1995:WFZ

[PCT95] Miodrag S. Petković, Carsten Carstensen, and Miroslav Trajković. Weierstrass formula and zero-finding methods. *Numerische Mathematik*, 69(3):353–372, January 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069003/50690353.htm`; `http://science.springer.de/nmee/bibs/5069003/50690353.htm`.

Pehlivanov:1996:LSM

[PCV96] A. I. Pehlivanov, G. F. Carey, and P. S. Vassilevski. Least-squares mixed finite element methods for non-selfadjoint elliptic problems: I. error estimates. *Numerische Mathematik*, 72(4):501–522, February 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6072004/60720501.htm`; `http://science.springer.de/nmee/bibs/6072004/60720501.htm`.

Paget:1972:ANE

[PE72] D. F. Paget and David Elliott. An algorithm for the numerical evaluation of certain Cauchy principal value integrals. *Numerische Mathematik*, 19(5):373–385, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Park:1997:SAF

[PE97] Haesun Park and Lars Eldén. Stability analysis and fast algorithms for triangularization of Toeplitz matrices. *Numerische Mathematik*, 76(3):383–402, May 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076003/70760383.htm`; `http://science.springer.`

de/nmee/bibs/7076003/70760383.htm.

Pearcy:1962:CAD

[Pea62] C. Pearcy. On convergence of alternating direction procedures. *Numerische Mathematik*, 4:172–176, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pecka:1974:EWQ

[Pec74] F. Pecka. On equally weighted quadratures. *Numerische Mathematik*, 23(1):19–22, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pedregal:1996:NAN

[Ped96] Pablo Pedregal. On the numerical analysis of non-convex variational problems. *Numerische Mathematik*, 74(3):325–336, September 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074003/60740325.htm; http://science.springer.de/nmee/bibs/6074003/60740325.htm.

Peherstorfer:1988:GQF

[Peh88] Franz Peherstorfer. On Gauss quadrature formulas with equal weights. *Numerische Mathematik*, 52(3):317–327, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Peherstorfer:1990:GTQ

[Peh90] Franz Peherstorfer. Gauss-Tchebycheff quadrature formulas. *Numerische Mathematik*, 58 (3):273–286, October 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Peherstorfer:1995:ORP

[Peh95] Franz Peherstorfer. Orthogonality of residual polynomials used in minimax polynomial preconditioning. *Numerische Mathematik*, 71(3):357–363, September 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5071003/50710357.htm; http://science.springer.de/nmee/bibs/5071003/50710357.htm.

Peisker:1985:MAB

[Pei85] Petra Peisker. A multilevel algorithm for the biharmonic problem. *Numerische Mathematik*, 46(4):623–634, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Peisker:1991:MMR

[Pei91] Petra Peisker. A multigrid method for Reissner–Mindlin plates. *Numerische Mathematik*, 59(5):511–528, August 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pena:1998:PSL

[Peñ98] J. M. Peña. Pivoting strategies leading to diagonal dominance by rows. *Numerische Mathematik*, 81(2):293–304, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8081002/80810293.htm; http://link.springer.de/link/service/journals/00211/papers/8081002/80810293.pdf.

Pereyra:1966:IAS

[Per66] Victor Pereyra. On improving an approximate solution of a functional equation by deferred corrections. *Numerische Mathematik*, 8(4):376–391, June 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pereyra:1967:IDC

[Per67] Victor Pereyra. Iterated deferred corrections for nonlinear operator equations. *Numerische Mathematik*, 10(4):316–323, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pereyra:1968:IDC

[Per68] Victor Pereyra. Iterated deferred corrections for nonlinear boundary value problems. *Numerische Mathematik*, 11(2):111–125, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Perugia:1999:MFM

[Per99] I. Perugia. A mixed formulation for 3D magnetostatic problems: theoretical analysis and face-edge finite element approximation. *Numerische Mathematik*, 84(2):305–326, December 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9084002/90840305.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084002/90840305.pdf.

Petry:1970:EEF

[Pet70] W. Petry. Existenz und Eindeutigkeit für Lösungen nichtlinearer Randwertprobleme. (German) [Existence and uniqueness for solutions of nonlinear boundary value problems]. *Numerische Mathematik*, 14(5):476–494, April 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=14&issue=5&spage=476.

Petras:1993:ARC

[Pet93] Knut Petras. Asymptotics for the remainder of a class of positive quadratures for integrands with an interior singularity. *Numerische Mathematik*,

65(1):121–133, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pflaum:1998:MAS

[Pfl98] Christoph Pflaum. A multilevel algorithm for the solution of second order elliptic differential equations on sparse grids. *Numerische Mathematik*, 79(1): 141–155, March 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079001/80790141.htm; http://science.springer.de/nmee/bibs/8079001/80790141.htm`.

Pierce:1990:ORC

[PHP90] Daniel J. Pierce, Apostolos Hadjidimos, and Robert J. Plemmons. Optimality relationships for p-cyclic SOR. *Numerische Mathematik*, 56(7): 635–643, January 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pichat:1972:CSA

[Pic72] M. Pichat. Correction d'une somme en arithmétique à virgule flottante. (French) [Correction of a sum in floating-point arithmetic]. *Numerische Mathematik*, 19(5):400–406, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pietrzykowski:1970:PMC

[Pie70] Tomasz Pietrzykowski. The potential method for conditional maxima in the locally compact metric spaces. *Numerische Mathematik*, 14(4): 325–329, March 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pietrzykowski:1972:GPM

[Pie72] Tomasz Pietrzykowski. A generalization of the potential method for conditional maxima on the Banach, reflexive spaces. *Numerische Mathematik*, 18(4): 367–372, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pinkus:1975:AMN

[Pin75] Allan Pinkus. Asymptotic minimum norm quadrature formulae. *Numerische Mathematik*, 24 (2):163–175, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pironneau:1982:TDA

[Pir82] O. Pironneau. On the transport-diffusion algorithm and its applications to the Navier–Stokes equations. *Numerische Mathematik*, 38(3):309–332, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pittnauer:1973:NPK

[Pit73] E. Pittnauer. Numerische Polynomapproximation mit Knoten-

polynomen. (German) [Numerical polynomial approximation by knot polynomials]. *Numerische Mathematik*, 21(3): 256–263, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pittnauer:1975:AAG

[Pit75] E. Pittnauer. Eine Aussage über Alternanten. (German) [A proposition on alternants]. *Numerische Mathematik*, 23(5): 427–432, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pitkaranta:1979:BSF

[Pit79] Juhani Pitkäranta. Boundary subspaces for the finite element method with Lagrange multipliers. *Numerische Mathematik*, 33(3):273–289, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pitkaranta:1988:ASL

[Pit88] Juhani Pitkäranta. Analysis of some low-order finite element schemes for Mindlin–Reissner and Kirchhoff plates. *Numerische Mathematik*, 53(1/2): 237–254, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pitkaranta:1992:PML

[Pit92] Juhani Pitkäranta. The problem of membrane locking in finite element analysis of cylindrical shells. *Numerische Mathematik*, 61(4):523–542, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Patry:1964:BF

[PK64] J. Patry and J. Keller. Zur Berechnung des Fehlerintegrals. (German) [Toward the computation of error integrals]. *Numerische Mathematik*, 6(1):89–97, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pattabhiraman:1969:SPP

[PL69] M. V. Pattabhiraman and P. Lancaster. Spectral properties of a polynomial operator. *Numerische Mathematik*, 13(3): 247–259, July 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Plato:1996:DPI

[Pla96] Robert Plato. On the discrepancy principle for iterative and parametric methods to solve linear ill-posed equations. *Numerische Mathematik*, 75(1):99–120, November 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6075001/60750099.htm; http://science.springer.de/nmee/bibs/6075001/60750099.htm`.

Pehlivanov:1992:SAA

[PLCC92] A. I. Pehlivanov, R. D. Lazarov, G. F. Carey, and S. S. Chow. Su-

perconvergence analysis of approximate boundary-flux calculations. *Numerische Mathematik*, 63(4):483–501, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Plemmons:1976:RSD

[Ple76] R. J. Plemmons. Regular splittings and the discrete Neumann problem. *Numerische Mathematik*, 25(2):153–161, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Polya:1968:GME

[Pól68] George Pólya. Graeffe's method for eigenvalues. *Numerische Mathematik*, 11(4):315–319, May 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pomentale:1968:DRL

[Pom68] Tomaso Pomentale. On discrete rational least squares approximation. *Numerische Mathematik*, 12(1):40–46, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pomentale:1971:CIM

[Pom71] Tomaso Pomentale. A class of iterative methods for holomorphic functions. *Numerische Mathematik*, 18(3):193–203, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ponstein:1966:SCE

[Pon66] J. Ponstein. Splitting certain eigenvalue/eigenvector problems. *Numerische Mathematik*, 8(5):412–421, August 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Porsching:1966:DST

[Por66] T. A. Porsching. Diagonal similarity transformations which isolate Gerschgorin disks. *Numerische Mathematik*, 8(5):437–443, August 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Porsching:1978:EEM

[Por78] T. A. Porsching. Error estimates for MAC-like approximations to the linear Navier–Stokes equations. *Numerische Mathematik*, 29(3):291–306, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Potempa:1978:MRQ

[Pot78] H. Potempa. Modifizierte Restgliedabschätzungen für Quadraturformeln. (German) [Modified estimates for quadrature errors]. *Numerische Mathematik*, 30(1): 39–50, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Potra:1982:EAS

[Pot82] Florian A. Potra. An error analysis for the secant method. *Numerische Mathematik*, 38(3):

427–445, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pothen:1989:SNB

[Pot89] Alex Pothen. Sparse null basis computations in structural optimization. *Numerische Mathematik*, 55(5):501–519, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Powell:1994:UCT

[Pow94] M. J. D. Powell. The uniform convergence of thin plate spline interpolation in two dimensions. *Numerische Mathematik*, 68(1): 107–128, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068001/40680107.htm; http://science.springer.de/nmee/bibs/4068001/40680107.htm`.

Potra:1980:SEB

[PP80] Florian-A. Potra and Vlastimil Pták. Sharp error bounds for Newton's process. *Numerische Mathematik*, 34(1):63–72, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Potra:1981:GRF

[PP81] Florian A. Potra and Vlastimil Pták. A generalization of regula falsi. *Numerische Mathematik*, 36(3):333–346, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Papamichael:1997:ACM

[PPSS97] N. Papamichael, I. E. Pritsker, E. B. Saff, and N. S. Stylianopoulos. Approximation of conformal mappings of annular regions. *Numerische Mathematik*, 76(4): 489–513, June 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076004/70760489.htm; http://science.springer.de/nmee/bibs/7076004/70760489.htm`.

Perrin:1969:HON

[PPV69] F. M. Perrin, H. S. Price, and R. S. Varga. On higher-order numerical methods for nonlinear two-point boundary value problems. *Numerische Mathematik*, 13(2):180–198, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Potra:1998:SMS

[PQS98] Florian A. Potra, Liqun Qi, and Defeng Sun. Secant methods for semismooth equations. *Numerische Mathematik*, 80(2): 305–324, August 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080002/80800305.htm; http://link.springer.de/link/service/journals/`

00211/papers/8080002/80800305.pdf; http://link.springer.de/link/service/journals/00211/papers/8080002/80800305.ps.gz.

Parlett:1969:BMC

[PR69] B. N. Parlett and C. Reinsch. Balancing a matrix for calculation of eigenvalues and eigenvectors. *Numerische Mathematik*, 13(4):293–304, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 315–326].

Prossdorf:1986:SGM

[PR86] S. Prössdorf and A. Rathsfeld. On spline Galerkin methods for singular integral equations with piecewise continuous coefficients. *Numerische Mathematik*, 48(1):99–118, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pierre:1993:NST

[PR93] Michel Pierre and Jean-R. R. Roche. Numerical simulation of tridimensional electromagnetic shaping of liquid metals. *Numerische Mathematik*, 65(2): 203–217, June 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pousin:1994:CSP

[PR94] J. Pousin and J. Rappaz. Consistency, stability, a priori and a posteriori errors for Petrov–Galerkin methods applied to nonlinear problems. *Numerische Mathematik*, 69(2):213–231, December 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4069002/40690213.htm; http://science.springer.de/nmee/bibs/4069002/40690213.htm.

Prenter:1971:PS

[Pre71] P. M. Prenter. Piecewise L-splines. *Numerische Mathematik*, 18(3):243–253, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Prossdorf:1991:SAP

[Prö91] S. Prössdorf. On the superapproximation property of Galerkin's method with finite elements. *Numerische Mathematik*, 59(7):711–722, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pruess:1975:HOA

[Pru75] S. Pruess. High order approximations to Sturm–Liouville eigenvalues. *Numerische Mathematik*, 24(3):241–247, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Perlis:1959:RAL

[PS59] A. J. Perlis and K. Samelson. Report on the algorithmic language ALGOL by

the ACM committee on programming languages and the GAMM committee on programming. *Numerische Mathematik*, 1:41–60, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Penkov:1966:HMA

[PS66] B. Penkov and Bl. Sendov. Hausdorffsche Metrik und Approximationen. (German) [Hausdorff metric and approximations]. *Numerische Mathematik*, 9(3):214–226, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pereyra:1975:MSD

[PS75] V. Pereyra and E. G. Sewell. Mesh selection for discrete solution of boundary problems in ordinary differential equations. *Numerische Mathematik*, 23(3): 261–268, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ponisch:1982:LUK

[PS82] Gerd Pönisch and Hubert Schwetlick. Ein lokal überlinear konvergentes Verfahren zur Bestimmung von Rückkehrpunkten implizit definierter Raumkurven. (German) [A locally superlinearly convergent method for computing turning points of implicitly defined space curves]. *Numerische Mathematik*, 38(3): 455–465, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Petkovic:1984:COA

[PS84] Miodrag Petković and Lidija Stefanović. On the convergence order of accelerated root iterations. *Numerische Mathematik*, 44(3):463–476, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Papamichael:1992:DDM

[PS92a] N. Papamichael and N. S. Stylianopoulos. A domain decomposition method for approximating the conformal modules of long quadrilaterals. *Numerische Mathematik*, 62(2): 213–234, July 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Prossdorf:1992:QMS

[PS92b] S. Prössdorf and I. H. Sloan. Quadrature method for singular integral equations on closed curves. *Numerische Mathematik*, 61(4):543–559, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Perthame:1996:PPF

[PS96a] Benoit Perthame and Chi-Wang Shu. On positivity preserving finite volume schemes for Euler equations. *Numerische Mathematik*, 73(1): 119–130, March 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

URL http://link.springer.de/link/service/journals/00211/bibs/6073001/60730119.htm; http://science.springer.de/nmee/bibs/6073001/60730119.htm.

Pitkaranta:1996:DPE

[PS96b] Juhani Pitkäranta and Manil Suri. Design principles and error analysis for reduced-shear plate-bending finite elements. *Numerische Mathematik*, 75(2): 223–266, December 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6075002/60750223.htm; http://science.springer.de/nmee/bibs/6075002/60750223.htm.

Palencia:1984:ELR

[PSS84] C. Palencia and J. M. Sanz-Serna. An extension of the Lax–Richtmyer theory. *Numerische Mathematik*, 44(2):279–283, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pitonyak:1990:IMV

[PSS90] A. Pitonyak, P. Shi, and M. Shillor. On an iterative method for variational inequalities. *Numerische Mathematik*, 58(3):231–242, October 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ptak:1976:RCN

[Ptá76] Vlastimil Pták. The rate of convergence of Newton's process. *Numerische Mathematik*, 25(3): 279–285, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pierce:1972:HOC

[PV72] J. G. Pierce and R. S. Varga. Higher order convergence results for the Rayleigh–Ritz method applied to eigenvalue problems. II. improved error bounds for eigenfunctions. *Numerische Mathematik*, 19(2): 155–169, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Plato:1990:RPM

[PV90] R. Plato and G. Vainikko. On the regularization of projection methods for solving ill-posed problems. *Numerische Mathematik*, 57(1):63–79, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Peters:1970:ERC

[PW70] G. Peters and J. H. Wilkinson. Eigenvectors of real and complex matrices by LR and QR triangularization. *Numerische Mathematik*, 16(3): 181–204, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 372–395].

Parlett:1984:EMS

[PW84] B. N. Parlett and W. D. Wu. Eigenvector matrices of symmetric tridiagonals. *Numerische Mathematik*, 44(1): 103–110, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Papamichael:1986:SCP

[PW86] N. Papamichael and M. K. Warby. Stability and convergence properties of Bergman kernel methods for numerical conformal mapping. *Numerische Mathematik*, 48(6): 639–669, June 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Paige:1993:AGT

[PW93] Christopher C. Paige and Mu Sheng Wei. Analysis of the generalized total least squares problem $AX \approx B$ when some columns of A are free of error. *Numerische Mathematik*, 65(2): 177–202, June 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pyle:1967:GIA

[Pyl67] L. Duane Pyle. A generalized inverse ϵ-algorithm for constructing intersection projection matrices, with applications. *Numerische Mathematik*, 10(1): 86–102, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Pytlak:2002:CGC

[Pyt02] R. Pytlak. Comments on "Global convergence of the method of shortest residuals" by Y. Dai and Y. Yuan. *Numerische Mathematik*, 91(2): 319–321, April 2002. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [hDxY99].

Pflaum:1999:EAC

[PZ99] C. Pflaum and A. Zhou. Error analysis of the combination technique. *Numerische Mathematik*, 84(2):327–350, December 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084002/90840327.htm`; `http://link.springer-ny.com/link/service/journals/00211/papers/9084002/90840327.pdf`.

Qiao:1988:HAF

[Qia88] San Zheng Qiao. Hybrid algorithm for fast Toeplitz orthogonalization. *Numerische Mathematik*, 53(3):351–366, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Quarteroni:1991:CVI

[QLV91] A. Quarteroni, G. Sacchi Landriani, and A. Valli. Coupling of viscous and inviscid Stokes equations via a domain decomposition method for finite elements. *Numerische Mathematik*,

59(8):831–859, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Qun:1991:FOE

[Qun91] Lin Qun. Fourth order eigenvalue approximation by extrapolation on domains with reentrant corners. *Numerische Mathematik*, 58(6):631–640, January 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Qiu:1999:NRM

[QYK99] Lin Qiu, Biao Yang, and Jiaoxun Kuang. The NGP-stability of Runge–Kutta methods for systems of neutral delay differential equations. *Numerische Mathematik*, 81(3): 451–459, January 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/9081003/90810451.htm; http://link.springer.de/link/service/journals/00211/papers/9081003/90810451.pdf`.

Rainey:1969:CST

[Rai69] John W. Rainey. On comparatively stable tridiagonalization methods. *Numerische Mathematik*, 13(4):316–322, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rakotch:1973:NSV

[Rak73] E. Rakotch. Numerical solution of Volterra integral equations. *Numerische Mathematik*, 20(4): 271–279, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ralston:1965:RCA

[Ral65] Anthony Ralston. Rational Chebyshev approximation by Remes' algorithms. *Numerische Mathematik*, 7(4):322–330, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rall:1966:CNP

[Ral66] L. B. Rall. Convergence of the Newton process to multiple solutions. *Numerische Mathematik*, 9(1):23–37, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rannacher:1979:NFE

[Ran79] Rolf Rannacher. Nonconforming finite element methods for eigenvalue problems in linear plate theory. *Numerische Mathematik*, 33(1):23–42, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rannacher:1984:FES

[Ran84] Rolf Rannacher. Finite element solution of diffusion problems with irregular data. *Numerische Mathematik*, 43(2):

309–327, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rappaz:1977:ASN

[Rap77] J. Rappaz. Approximation of the spectrum of a non-compact operator given by the magnetohydrodynamic stability of a plasma. *Numerische Mathematik*, 28(1):15–24, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rappaz:1984:ANN

[Rap84] Jacques Rappaz. Approximation of a nondifferentiable nonlinear problem related to MHD equilibria. *Numerische Mathematik*, 45(1):117–133, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rath:1982:FGR

[Rat82] Wolfgang Rath. Fast Givens rotations for orthogonal similarity transformations. *Numerische Mathematik*, 40(1):47–56, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rathsfeld:1993:QMD

[Rat93] A. Rathsfeld. On quadrature methods for the double layer potential equation over the boundary of a polyhedron. *Numerische Mathematik*, 66(1):67–95, October 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Raugel:1986:FDA

[Rau86] G. Raugel. Finite-dimensional approximation of bifurcation problems in presence of symmetries. *Numerische Mathematik*, 48(2):137–198, February 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Razelos:1969:AAS

[Raz69] P. Razelos. On the accuracy of the analog solution of heat conduction problems involving Newtonian cooling. *Numerische Mathematik*, 13(4):323–333, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Razzaghi:1979:CSM

[Raz79] M. Razzaghi. A computational solution for a matrix Riccati differential equation. *Numerische Mathematik*, 32(3): 271–279, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reinsch:1968:RTN

[RB68] C. Reinsch and F. L. Bauer. Rational QR transformation with Newton shift for symmetric tridiagonal matrices. *Numerische Mathematik*, 11(3): 264–272, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 257–272].

Remar:1982:AFS

[RBS82] Jaroslav Remar, John C. Bruch, Jr., and James M. Sloss. Axisymmetric free surface seepage. *Numerische Mathematik*, 40(2): 143–168, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Richtmyer:1962:CFE

[RDM62] R. D. Richtmyer, Marjorie Devaney, and N. Metropolis. Continued fraction expansions of algebraic numbers. *Numerische Mathematik*, 4:68–84, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Redheffer:1967:BUD

[Red67] R. M. Redheffer. Bemerkungen über Differentialungleichungen bei abzählbaren Ausnahmemengen. (German) [Remark on differential equations for countable sets]. *Numerische Mathematik*, 9(5):437–445, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reddien:1973:PMS

[Red73] G. W. Reddien. Projection methods and singular two point boundary value problems. *Numerische Mathematik*, 21(3): 193–205, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Redheffer:1977:FND

[Red77] Ray M. Redheffer. Fehlerabschätzung bei nichtlinearer Differentialgleichungen mit Hilfe linearer Differentialgleichungen. (German) [Error estimation in nonlinear problems by use of a family of linear differential inequalities]. *Numerische Mathematik*, 28(4):393–405, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reddy:1988:CMF

[Red88] B. D. Reddy. Convergence of mixed finite element approximations for the shallow arch problem. *Numerische Mathematik*, 53(6):687–699, September 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1965:FLD

[Rei65] Manfred Reimer. Eine Fehlerabschätzung für lineare Differenzenverfahren. (German) [An error bound for linear difference methods]. *Numerische Mathematik*, 7(4):277–285, August 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reinsch:1967:SSF

[Rei67] Christian H. Reinsch. Smoothing by spline functions. *Numerische Mathematik*, 10(3): 177–183, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1971:UWP

[Rei71a] Manfred Reimer. Untersuchungen über das Wachstrum von Potenzreihenabschnitten mit Anwendungen für das Hornerschema. (German) [Investigations of the growth of segments of polynomials with applications to Horner's scheme]. *Numerische Mathematik*, 17(2): 172–178, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reinsch:1971:SSF

[Rei71b] Christian H. Reinsch. Smoothing by spline functions. II. *Numerische Mathematik*, 16(5): 451–454, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1975:ESP

[Rei75] Manfred Reimer. Auswertungsverfahren für Polynome in mehreren Variablen. (German) [Evaluation schemes for polynomials in more than one variable]. *Numerische Mathematik*, 23(4): 321–336, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reinhart:1982:NAK

[Rei82] Laure Reinhart. On the numerical analysis of the von Kármán equations: mixed finite element approximation and continuation techniques. *Numerische Mathematik*, 39(3):371–404, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1984:BCO

[Rei84a] Manfred Reimer. Best constants occurring with the modulus of continuity in the error estimate for spline interpolants of odd degree on equidistant grids. *Numerische Mathematik*, 44(3): 407–415, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1984:EES

[Rei84b] Manfred Reimer. Error estimates for spline interpolants on equidistant grids. *Numerische Mathematik*, 44(3): 417–424, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1988:OIR

[Rei88] Manfred Reimer. Optimal interval refinement near singularities. *Numerische Mathematik*, 53(4): 411–422, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reichel:1989:OTM

[Rei89a] Lothar Reichel. The ordering of tridiagonal matrices in the cyclic reduction method for Poisson's equation. *Numerische Mathematik*, 56(2/3):215–227, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1989:CHS

[Rei89b] Manfred Reimer. Cardinal Hermite-spline-interpolation on the equidistant lattice. *Numerische Mathematik*, 56(4): 345–357, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reichel:1990:FSM

[Rei90] Lothar Reichel. Fast solution methods for Fredholm integral equations of the second kind. *Numerische Mathematik*, 57(8): 719–736, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reitich:1991:SST

[Rei91] Fernando Reitich. Singular solutions of a transmission problem in plane linear elasticity for wedge-shaped regions. *Numerische Mathematik*, 59(2): 179–216, May 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reich:1997:HOS

[Rei97] Sebastian Reich. On higher-order semi-explicit symplectic partitioned Runge–Kutta methods for constrained Hamiltonian systems. *Numerische Mathematik*, 76(2):231–247, April 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076002/70760231.htm; http://science.springer.de/nmee/bibs/7076002/70760231.htm`.

Rentrop:1979:TSM

[Ren79] P. Rentrop. A Taylor series method for the numerical solution of two-point boundary value problems. *Numerische Mathematik*, 31(4): 359–375, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rentrop:1980:ACE

[Ren80] P. Rentrop. An algorithm for the computation of the exponential spline. *Numerische Mathematik*, 35(1):81–93, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rentrop:1985:PRK

[Ren85] Peter Rentrop. Partitioned Runge–Kutta methods with stiffness detection and stepsize control. *Numerische Mathematik*, 47(4):545–564, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reusken:1988:CMFa

[Reu88a] Arnold Reusken. Convergence of the multigrid full approximation scheme for a class of elliptic mildly nonlinear boundary value problems. *Numerische Mathematik*, 52(3):251–277, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reusken:1988:CMFb

[Reu88b] Arnold Reusken. Convergence of the multilevel full approximation scheme including the V-cycle. *Numerische Mathematik*, 53(6):663–686, September 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reusken:1991:SOL

[Reu91] Arnold Reusken. Steplength optimization and linear multigrid methods. *Numerische Mathematik*, 58(8):819–838, March 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reusken:1995:FAR

[Reu95] Arnold Reusken. Fourier analysis of a robust multigrid method for convection-diffusion equations. *Numerische Mathematik*, 71(3):365–397, September 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071003/50710365.htm; http://science.springer.de/nmee/bibs/5071003/50710365.htm`.

Robinson:1994:OSC

[RF94] Mark P. Robinson and Graeme Fairweather. Orthogonal spline collocation methods for Schrödinger-type equations in one space variable. *Numerische Mathematik*, 68(3):355–375, September 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068003/40680355.htm; http://science.springer.de/nmee/bibs/4068003/40680355.htm`.

Reddy:1988:VPC

[RG88] B. D. Reddy and T. B. Griffin. Variational principles and convergence of finite element approximations of a holonomic elastic-plastic problem. *Numerische Mathematik*, 52(1):101–117, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rhee:1993:GCC

[RH93] Noah H. Rhee and Vjeran Hari. On the global and cubic convergence of a quasi-cyclic Jacobi method. *Numerische Mathematik*, 66(1):97–122, October 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rheinboldt:1988:CMS

[Rhe88] Werner C. Rheinboldt. On the computation of multi-dimensional solution manifolds of parameterized equations. *Numerische Mathematik*, 53(1/2):165–181, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rice:1965:CPR

[Ric65] John R. Rice. On the conditioning of polynomial and ratio-

nal forms. *Numerische Mathematik*, 7(5):426–435, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Richert:1974:HEP

[Ric74a] Walter R. Richert. On the handling of eigenvalue problems with the parameter of nonlinear form. *Numerische Mathematik*, 22(4):275–287, August 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Richert:1974:FET

[Ric74b] Walter R. Richert. Zur Fehlerabschätzung für Eigenwertaufgaben vom Typ $(\lambda^2 I - \lambda A - B)x = 0$. (German) [Error bounds construction for eigenvalue distances of the problem $(\lambda^2 I - \lambda A - B)x = 0$]. *Numerische Mathematik*, 22(3): 233–239, June 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Richter:1978:SPP

[Ric78] Gerard R. Richter. Superconvergence of piecewise polynomial Galerkin approximations, for Fredholm integral equations of the second kind. *Numerische Mathematik*, 31(1):63–70, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rieder:1991:WTS

[Rie91] Andreas Rieder. The wavelet transform on Sobolev spaces and its approximation properties. *Numerische Mathematik*, 58(8):875–894, March 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rieder:1997:WMM

[Rie97] Andreas Rieder. A wavelet multilevel method for ill-posed problems stabilized by Tikhonov regularization. *Numerische Mathematik*, 75(4):501–522, February 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075004/70750501.htm; http://science.springer.de/nmee/bibs/7075004/70750501.htm`.

Rissanen:1974:SLE

[Ris74] Jorma Rissanen. Solution of linear equations with Hankel and Toeplitz matrices. *Numerische Mathematik*, 22(5):361–366, October 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ritter:1980:RSC

[Rit80] Klaus Ritter. On the rate of superlinear convergence of a class of variable metric methods. *Numerische Mathematik*, 35(3): 293–313, October 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rivlin:1962:PBU

[Riv62] T. J. Rivlin. Polynomials of best uniform approximation to certain rational functions. *Numerische Mathematik*, 4:345–349, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Riess:1972:EEC

[RJ72] R. D. Riess and L. W. Johnson. Error estimates for Clenshaw–Curtis quadrature. *Numerische Mathematik*, 18(4):345–353, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reemtsen:1984:MNS

[RK84] R. Reemtsen and A. Kirsch. A method for the numerical solution of the one-dimensional inverse Stefan problem. *Numerische Mathematik*, 45(2):253–273, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rodrigue:1989:CCA

[RKL89] Garry Rodrigue, LiShan Kang, and Yu-Hui Liu. Convergence and comparison analysis of some numerical Schwarz methods. *Numerische Mathematik*, 56(2/3):123–138, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rudert:1966:UPL

[RL66] W. S. Rudert and H. G. Lill. Über Partitionen und ein lineares diophantisches Problem. (German) [On partitions and a linear Diophantine problem]. *Numerische Mathematik*, 8(5):407–411, August 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reemtsen:1981:ATN

[RL81] R. Reemtsen and C. J. Lozano. An approximation technique for the numerical solution of a Stefan problem. *Numerische Mathematik*, 38(1):141–154, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Robert:1972:NAA

[RM72] F. Robert and J. F. Maitre. Normes et algorithmes associés à une découpe de matrice (itération du principe de Gauss–Seidel). (French) [Norms and algorithms associated with a splitting of matrix (iteration of the Gauss–Seidel principle)]. *Numerische Mathematik*, 19(4):303–325, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ryoo:1998:NVS

[RN98] Cheon Seoung Ryoo and Mitsuhiro T. Nakao. Numerical verification of solutions for variational inequalities. *Numerische Mathematik*, 81(2):305–320, December 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.`

de/link/service/journals/00211/bibs/8081002/80810305.htm; http://link.springer.de/link/service/journals/00211/papers/8081002/80810305.pdf.

Rowland:1970:SBD

[RO70] John H. Rowland and James A. O'Donnell. Some bounds for the deviation and interpolation points in Chebyshev approximation. *Numerische Mathematik*, 16(1):16–21, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Roark:1971:ECI

[Roa71] A. L. Roark. On the eigenproblem for convolution integral equations. *Numerische Mathematik*, 17(1):54–61, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Robert:1966:RMP

[Rob66] F. Robert. Recherche d'une M-matrice parmi les minorantes d'un opérateur linéaire. (French) [Search for an M-matrix among the minorants of a linear operator]. *Numerische Mathematik*, 9(3):189–199, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Robert:1971:AEO

[Rob71] J. Robert. Approximations des espace d'Orlicz et applications. (French) [Approximations of Orlicz spaces and their applications]. *Numerische Mathematik*, 17(4):338–356, August 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Robinson:1972:ENM

[Rob72] Stephen M. Robinson. Extension of Newton's method to nonlinear functions with values in a cone. *Numerische Mathematik*, 19(4):341–347, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Robert:1976:ADT

[Rob76] François Robert. Autour du théorème de Stein–Rosenberg. (French) [More about the Stein–Rosenberg theorem]. *Numerische Mathematik*, 27(1): 133–141, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Roche:1988:RMD

[Roc88] Michel Roche. Rosenbrock methods for differential algebraic equations. *Numerische Mathematik*, 52(1):45–63, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rodrigue:1973:GMM

[Rod73] Garry Rodrigue. A gradient method for the matrix eigenvalue problem $Ax = \lambda Bx$. *Numerische Mathematik*, 22(1):1–16, February 1973. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rohde:1998:UFV

[Roh98] Christian Rohde. Upwind finite volume schemes for weakly coupled hyperbolic systems of conservation laws in 2D. *Numerische Mathematik*, 81(1):85–123, November 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081001/80810085.htm; http://link.springer.de/link/service/journals/00211/papers/8081001/80810085.pdf`.

Rokne:1972:NMU

[Rok72] Jon Rokne. Newton's method under mild differentiability conditions with error analysis. *Numerische Mathematik*, 18(5):401–412, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Roman:1985:CCR

[Rom85] J. Roman. Calculs de complexité relatifs à une méthode de dissection emboî tée. (French) [Relative complexity bounds for a nested dissection method]. *Numerische Mathematik*, 47(2):175–190, September 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rosen:1964:PPP

[Ros64] J. B. Rosen. Primal partition programming for block diagonal matrices. *Numerische Mathematik*, 6(1):250–260, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rose:1975:WAE

[Ros75] Milton E. Rose. Weak-element approximations to elliptic differential equations. *Numerische Mathematik*, 24(3):185–204, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rosier:1995:BDR

[Ros95] Michael Rosier. Biorthogonal decompositions of the Radon transform. *Numerische Mathematik*, 72(2):263–283, December 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072002/50720263.htm; http://science.springer.de/nmee/bibs/5072002/50720263.htm`.

Roubicek:1987:OCS

[Rou87] Tomáš Roubíček. Optimal control of a Stefan problem with state-space constraints. numerical approximation. *Numerische Mathematik*, 50(6):723–744, April 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rowland:1971:IIP

[Row71] John H. Rowland. Inequalities for the interpolation points in Chebyshev approximation by polynomials. *Numerische Mathematik*, 17(1):40–44, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Roose:1985:NCN

[RP85] Dirk Roose and Robert Piessens. Numerical computation of non-simple turning points and cusps. *Numerische Mathematik*, 46(2): 189–211, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rabier:1990:CMS

[RR90] Patrick J. Rabier and Werner C. Rheinboldt. On a computational method for the second fundamental tensor and its application to bifurcation problems. *Numerische Mathematik*, 57(6/7):681–694, July 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

Rentrop:1989:ARW

[RRS89] P. Rentrop, M. Roche, and G. Steinebach. The application of Rosenbrock-Wanner type methods with stepsize control in differential-algebraic equations. *Numerische Mathematik*, 55(5): 545–563, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rutishauser:1963:TMS

[RS63] H. Rutishauser and H. R. Schwarz. The LR transformation method for symmetric matrices. *Numerische Mathematik*, 5(1):273–289, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Roark:1965:PRW

[RS65] A. L. Roark and L. F. Shampine. On paper of roark and wing. *Numerische Mathematik*, 7(5): 394–395, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Roark:1968:EDI

[RS68] A. L. Roark and L. F. Shampine. On the eigenproblem for displacement integral equations. *Numerische Mathematik*, 12(3): 170–179, October 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rakotch:1970:EEN

[RS70] E. Rakotch and J. Steinberg. Error estimate for the numerical solution of Fredholm's integral equation. *Numerische Mathematik*, 15(4):320–328, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Russell:1972:CMB

[RS72] R. D. Russell and L. F. Shampine. A collocation method for boundary value problems. *Numerische Mathematik*, 19(1):1–28, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reddien:1976:CMS

[RS76] G. W. Reddien and L. L. Schumaker. On a collocation method for singular two point boundary value problems. *Numerische Mathematik*, 25(4): 427–432, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Reimer:1986:EAR

[RS86] Manfred Reimer and D. Siepmann. An elementary algebraic representation of polynomial spline interpolants for equidistant lattices and its condition. *Numerische Mathematik*, 49(1):55–65, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ruotsalainen:1988:CGM

[RS88] K. Ruotsalainen and J. Saranen. On the convergence of the Galerkin method for nonsmooth solutions of integral equations. *Numerische Mathematik*, 54(3): 295–302, December 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rahman:1990:CSC

[RS90] Qazi I. Rahman and Gerhard Schmeisser. Characterization of the speed of convergence of the trapezoidal rule. *Numerische Mathematik*, 57(2): 123–138, April 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Riemenschneider:1991:CHI

[RS91] Sherman Riemenschneider and Karl Scherer. Cardinal Hermite interpolation with box splines. II. *Numerische Mathematik*, 58 (6):591–602, January 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Riemenschneider:1995:GIL

[RS95] Sherman D. Riemenschneider and Zuowei Shen. General interpolation on the lattice $h\mathbf{z}^s$: compactly supported fundamental solutions. *Numerische Mathematik*, 70(3): 331–351, May 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070003/50700331.htm; http://science.springer.de/nmee/bibs/5070003/50700331.htm`.

Raviart:1996:HAM

[RS96] Pierre-Arnaud Raviart and Eric Sonnendrücker. A hierarchy of approximate models for the Maxwell equations. *Numerische Mathematik*, 73(3):

329–372, May 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6073003/60730329.htm; http://science.springer.de/nmee/bibs/6073003/60730329.htm.

Rappaz:1997:SPF

[RSSV97] J. Rappaz, J. Sanchez Hubert, E. Sanchez Palencia, and D. Vassiliev. On spectral pollution in the finite element approximation of thin elastic "membrane" shells. *Numerische Mathematik*, 75(4):473–500, February 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7075004/70750473.htm; http://science.springer.de/nmee/bibs/7075004/70750473.htm.

Reddy:1992:SML

[RT92] Satish C. Reddy and Lloyd N. Trefethen. Stability of the method of lines. *Numerische Mathematik*, 62(2):235–267, July 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ruas:1985:QVP

[Rua85] Vitoriano Ruas. Quasisolenoidal velocity-pressure finite element methods for the three-dimensional Stokes problem. *Numerische Mathematik*, 46(2): 237–253, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ruas:1988:QFE

[Rua88] Vitoriano Ruas. A quadratic finite element method for solving biharmonic problems in $\mathbf{r}^n$. *Numerische Mathematik*, 52(1): 33–43, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ruhe:1970:PMV

[Ruh70] Axel Ruhe. Properties of a matrix with a very ill-conditioned eigenproblem. *Numerische Mathematik*, 15(1):57–60, May 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rumpf:1996:VAO

[Rum96] M. Rumpf. A variational approach to optimal meshes. *Numerische Mathematik*, 72(4): 523–540, February 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6072004/60720523.htm; http://science.springer.de/nmee/bibs/6072004/60720523.htm.

Rund:1970:RCB

[Run70] Hanno Rund. The reduction of certain boundary problems to variational problems by means of transversality conditions. *Numerische Mathematik*, 15(1):49–56, May 1970. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Russell:1974:CSB

[Rus74] Robert D. Russell. Collocation for systems of boundary value problems. *Numerische Mathematik*, 23(2):119–133, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ruscheweyh:1984:GDM

[Rus84] Stephan Ruscheweyh. On a global descent method for polynomials. *Numerische Mathematik*, 45(2):227–240, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rutishauser:1960:BNI

[Rut60] Heinz Rutishauser. Bemerkungen zur numerischen Integration gewöhnlicher Differentialgleichungen n-ter Ordnung. (German) [Remark on the numerical integration of n-th order ordinary differential equations]. *Numerische Mathematik*, 2(1): 263–279, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rutishauser:1963:ARP

[Rut63a] H. Rutishauser. Ausdehnung des Rombergschen Prinzips. (German) [Extension of the Romberg principle]. *Numerische Mathematik*, 5(1):48–54, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rutishauser:1963:SSQ

[Rut63b] Heinz Rutishauser. Stabile Sonderfälle des Quotienten-Differenzen-Algorithmus. (German) [Stable special cases of the quotient-difference algorithm]. *Numerische Mathematik*, 5(1): 95–112, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rutishauser:1966:BEO

[Rut66a] H. Rutishauser. Bestimmung der Eigenwerte orthogonaler Matrizen. (German) [Determination of the Eigenvalues of Orthogonal Matrices]. *Numerische Mathematik*, 9(2):104–108, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rutishauser:1966:JMR

[Rut66b] H. Rutishauser. The Jacobi method for real symmetric matrices. *Numerische Mathematik*, 9(1):1–10, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 202–211].

Rutishauser:1969:CAF

[Rut69] Heinz Rutishauser. Computational aspects of F. L. Bauer's simultaneous iteration method. *Numerische Mathematik*, 13(1): 4–13, March 1969. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rutishauser:1970:SIM

[Rut70] H. Rutishauser. Simultaneous iteration method for symmetric matrices. *Numerische Mathematik*, 16(3):205–223, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 284–302].

Ramm:1990:CSI

[RvdS90] A. G. Ramm and A. van der Sluis. Calculating singular integrals as an ill-posed problem. *Numerische Mathematik*, 57(2): 139–145, April 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Roark:1965:MCE

[RW65] A. L. Roark and G. M. Wing. A method for computing the eigenvalues of certain integral equations. *Numerische Mathematik*, 7(2):159–170, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Robert:1985:EEI

[RW85a] R. Robert and P. Witomski. Sur une équation d'évolution intégro-différentielle singulière linéaire. (French) [A singular integro-differential evolution equation]. *Numerische Mathematik*, 46(4):493–498, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Rye:1985:RVR

[RW85b] Egil Rye and Haakon Waadeland. Reflections on value regions, limit regions and truncation errors for continued fractions. *Numerische Mathematik*, 47(2):191–215, September 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ruotsalainen:1988:BEM

[RW88] K. Ruotsalainen and W. Wendland. On the boundary element method for some nonlinear boundary value problems. *Numerische Mathematik*, 53(3): 299–314, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ryan:1967:SMC

[Rya67] Joseph T. Ryan. A sieve method for classifying composite numbers. *Numerische Mathematik*, 10(4):324–326, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sanchez:1984:EEM

[SA84] A. M. Sanchez and R. Arcangeli. Estimations des erreurs de meilleure approximation polynômiale et d'interpolation de Lagrange dans les espaces de Sobolev d'ordre non entier. (French) [Estimates of the best polynomial approximation errors and the Lagrange interpolation error in fractional-order Sobolev spaces]. *Numerische Mathematik*, 45(2):

301–321, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saad:1986:CNS

[Saa86] Youcef Saad. On the condition number of some Gram matrices arising from least squares approximation in the complex plane. *Numerische Mathematik*, 48(3):337–347, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sablonniere:1978:BTS

[Sab78] Paul Sablonnière. Bases de type Schauder de $C[0,1]$ et formules de quadrature associèes. (French) [Bases of Schauder type in $C[0,1]$ and associated quadrature formulas]. *Numerische Mathematik*, 30(2): 227–240, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sack:1972:FSR

[Sac72] R. A. Sack. A fully stable rational version of the QR algorithm for tridiagonal matrices. *Numerische Mathematik*, 18(5): 432–441, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sachs:1973:IMN

[Sac73] A. Sachs. Iterationsverfahren für monotone, nicht notwendig Lipschitz-beschränkte Operatoren im Hilbert-Raum. (German) [Iteration method for monotone not-necessarily Lipschitz-limited operators in Hilbert space]. *Numerische Mathematik*, 20(5):356–363, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

SacchiLandriani:1988:STA

[Sac88] Giovanni Sacchi Landriani. Spectral tau approximation of the two-dimensional Stokes problem. *Numerische Mathematik*, 52(6):683–699, June 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sadkane:1993:BAD

[Sad93a] Miloud Sadkane. Block-Arnoldi and Davidson methods for unsymmetric large eigenvalue problems. *Numerische Mathematik*, 64(2):195–211, February 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sadkane:1993:BAC

[Sad93b] Miloud Sadkane. A block Arnoldi-Chebyshev method for computing the leading eigenpairs of large sparse unsymmetric matrices. *Numerische Mathematik*, 64(2):181–193, February 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sahba:1985:SNI

[Sah85] M. Sahba. On the solution of nonlinear inequalities in

a finite number of iterations. *Numerische Mathematik*, 46(2): 229–236, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sakai:1997:ISP

[Sak97] Manabu Sakai. Inflections and singularity on parametric rational cubic curves. *Numerische Mathematik*, 76(3): 403–417, May 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076003/70760403.htm; http://science.springer.de/nmee/bibs/7076003/70760403.htm`.

Salzer:1960:OPN

[Sal60] Herbert E. Salzer. Optimal points for numerical differentiation. *Numerische Mathematik*, 2(1):214–227, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Salzer:1961:SEB

[Sal61] Herbert E. Salzer. Some extensions of Bairstow's method. *Numerische Mathematik*, 3:120–124, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Salzer:1963:EWF

[Sal63] Herbert E. Salzer. Equally-weighted formulas for numerical differentiation. *Numerische Mathematik*, 4:381–392, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Salzer:1964:DDF

[Sal64] H. E. Salzer. Divided differences for functions of two variables for irregularly spaces arguments. *Numerische Mathematik*, 6(1): 68–77, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Salzer:1971:FBE

[Sal71] Herbert E. Salzer. Formulas for best extrapolation. *Numerische Mathematik*, 18(2): 144–153, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Salkauskas:1975:WFC

[Sal75] K. Salkauskas. On weight functions for Chebyshev quadrature. *Numerische Mathematik*, 24(1): 13–18, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sanchez:1975:ISB

[Sán75] David A. Sánchez. An iteration scheme for boundary value/alternative problems. *Numerische Mathematik*, 23(3): 223–230, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saridakis:1986:AUS

[Sar86] Yiannis G. Saridakis. On the analysis of the unsymmetric successive overrelaxation method

when applied to p-cyclic matrices. *Numerische Mathematik*, 49(5):461–473, September 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saranen:1988:CED

[Sar88] J. Saranen. The convergence of even degree spline collocation solution for potential problems in smooth domains of the plane. *Numerische Mathematik*, 53(5): 499–512, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saranen:1989:EMS

[Sar89] Jukka Saranen. Extrapolation methods for spline collocation solutions of pseudodifferential equations on curves. *Numerische Mathematik*, 56(4): 385–407, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saridakis:1990:DDU

[Sar90] Yiannis G. Saridakis. Domains of divergence of the USSOR method applied on p-cyclic matrices. *Numerische Mathematik*, 57(4):405–412, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saridakis:1996:REC

[Sar96] Yiannis G. Saridakis. Regions of exact convergence of the USSOR method applied on generalized consistently ordered matrices. *Numerische Mathematik*, 74(2): 203–219, August 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074002/60740203.htm; http://science.springer.de/nmee/bibs/6074002/60740203.htm`.

Sarkis:1997:NCS

[Sar97] Marcus Sarkis. Nonstandard coarse spaces and Schwarz methods for elliptic problems with discontinuous coefficients using non-conforming elements. *Numerische Mathematik*, 77(3): 383–406, September 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077003/70770383.htm; http://science.springer.de/nmee/bibs/7077003/70770383.htm`.

Sauer:1963:DHA

[Sau63] Robert Sauer. Differenzenverfahren für hyperbolische Anfangswertprobleme bei mehr als zwei unabhängigen Veränderlichen mit Hilfe von Nebencharakteristiken. (German) [Difference method for hyperbolic initial value problems in more than two independent variables with the aid of secondary characteristics]. *Numerische Mathematik*, 5(1):55–67, December 1963. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sauer:1967:AWE

[Sau67] R. Sauer. Alwin Watther em. ord. Professor an der Technischen Hochschule Darmstadt. *Numerische Mathematik*, 9(4): 379, February 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sautter:1973:SLO

[Sau73] W. Sautter. Schwankungsbereiche linearer Optimierungsaufgaben. (German) [Perturbation analysis of linear programming problems]. *Numerische Mathematik*, 21(3):264–269, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sautter:1978:FGE

[Sau78] Werner Sautter. Fehleranalyse für die Gauß-Elimination zur Berechnung der Lösung minimaler Länge. (German) [Error Analysis of Gauss Elimination for the Best Least Squares Problem]. *Numerische Mathematik*, 30(2):165–184, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sautter:1984:KLA

[Sau84] Werner Sautter. Zur Kondition des linearen Ausgleichsproblems mit linearen Gleichungen als Nebenbedingungen. (German) [On the condition of the linear least squares problem with linear equations as side conditions]. *Numerische Mathematik*, 44(1):139–152, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sauer:1997:PIM

[Sau97] Thomas Sauer. Polynomial interpolation of minimal degree. *Numerische Mathematik*, 78(1): 59–85, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078001/70780059.htm; http://science.springer.de/nmee/bibs/7078001/70780059.htm`.

Savare:1993:SAA

[Sav93] Giuseppe Savaré. $A(\Theta)$-stable approximations of abstract Cauchy problems. *Numerische Mathematik*, 65(3): 319–335, July 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saworin:1982:EEN

[Saw82] A. N. Saworin. Über die Effektivität einiger nichtlinearer Verfahren bei der numerischen Behandlung steifer Differentialgleichungssysteme. (German) [On the efficiency of some nonlinear methods for the numerical solution of systems of stiff differential equations]. *Numerische Mathematik*, 40(2): 169–177, December 1982. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Stiefel:1969:SCM

[SB69] E. Stiefel and D. G. Bettis. Stabilization of Cowell's method. *Numerische Mathematik*, 13(2): 154–175, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shampine:1983:SEM

[SB83] Lawrence F. Shampine and Lorraine S. Baca. Smoothing the extrapolated midpoint rule. *Numerische Mathematik*, 41(2): 165–175, June 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shanahan:1990:TFE

[SB90] Robert M. Shanahan and John W. Barrett. Total flux estimates for a finite element approximation of the Dirichlet problem using the boundary penalty method. *Numerische Mathematik*, 57(4): 351–363, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Smarzewski:1984:QS

[SBH84] R. Smarzewski and A. Bujalska-Horbowicz. Quartic X-splines. *Numerische Mathematik*, 45(1): 135–148, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schopf:1960:KI

[Sch60] Andreas H. Schopf. On the Kantorovich inequality. *Numerische Mathematik*, 2(1):344–346, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=2&issue=1&spage=344`.

Schafke:1961:VBC

[Sch61a] Friedrich Wilhelm Schäfke. Ein Verfahren zur Berechnung des charakteristischen Exponenten der Mathieuschen Differentialgleichung. I. (German) [A method for calculation of characteristic exponents of the Mathiew differential equation. I]. *Numerische Mathematik*, 3: 30–38, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schonhage:1961:FIG

[Sch61b] A. Schönhage. Fehlerfortpflanzung bei Interpolation. (German) [Error transmission in interpolation]. *Numerische Mathematik*, 3:62–71, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schonhage:1961:KJV

[Sch61c] A. Schönhage. Zur Konvergenz des Jacobi–Verfahrens. (German) [On the convergence

of the Jacobi method]. *Numerische Mathematik*, 3(1):374–380, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=374`.

Schroder:1961:FRG

[Sch61d] Johann Schröder. Fehlerabschätzung mit Rechenanlagen bei gewönlichen Differentialgleichungen erster Ordnung. (German) [Computational error bounds for first-order ordinary differential equations]. *Numerische Mathematik*, 3:39–61, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schroder:1961:VFG

[Sch61e] Johann Schröder. Verbesserung einer Fehlerabschätzung für gewöhnliche Differentialgleichungen erster Ordnung. (German) [Improvement of error bounds for first-order ordinary differential equations]. *Numerische Mathematik*, 3:125–130, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schonhage:1963:OPD

[Sch63] A. Schönhage. Optimale Punkte für Differentiation und Integration. (German) [Optimal points for differentiation and integration]. *Numerische Mathematik*, 5(1):303–331, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1964:AMI

[Sch64a] Jochen W. Schmidt. Ausgangsvektoren für monotone Iterationen bei linearen Gleichungsystemen. (German) [Starting vectors for monotone iterations of linear equation systems]. *Numerische Mathematik*, 6(1):78–88, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schneider:1964:BND

[Sch64b] A. Schneider. Bemerkungen zur numerischen Differentiation. (German) [Remark on numerical differentiation]. *Numerische Mathematik*, 6(1):332–334, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schneider:1965:POI

[Sch65] Hans Schneider. Positive operators and an inertia theorem. *Numerische Mathematik*, 7(1):11–17, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1966:AEK

[Sch66a] Jochen W. Schmidt. Asymptotische Einschließung bei konvergenzbeschleunigenden Verfahren. (German) [Asymptotic bounds for convergence accelerating methods]. *Nu-*

merische Mathematik, 8(2):105–113, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schroder:1966:OUI

[Sch66b] Johann Schröder. Operator-Ungleichungen und ihre numerische Anwendung bei Randwertaufgaben. (German) [Operator inequalities and their numerical use in boundary value problems]. *Numerische Mathematik*, 9(2):149–162, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schafke:1968:ZGL

[Sch68a] F. W. Schäfke. Zum Zeilensummenkriterium. (german) [On the line sum criterion]. *Numerische Mathematik*, 12(5):448–453, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1968:AEK

[Sch68b] Jochen W. Schmidt. Asymptotische Einschließung bei konvergenzbeschleunigenden Verfahren. II. (German) [Asymptotic enclosure with convergence acceleration method. II]. *Numerische Mathematik*, 11(1):53–56, January 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schwarz:1968:TSB

[Sch68c] H. R. Schwarz. Tridiagonalization of a symmetric band matrix. *Numerische Mathematik*, 12(4):231–241, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 273–283].

Schaefer:1970:ANE

[Sch70a] Helmut H. Schaefer. Eine Abschätzung der nichttrivialen Eigenwerte stochastischer Matrizen. (German) [An approximation of nontrivial eigenvalues of stochastic matrices]. *Numerische Mathematik*, 15(3):219–223, July 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schafke:1970:AEI

[Sch70b] F. W. Schäfke. Zum Anwendungsbereich einiger Iterationsverfahren. (German) [On the application of an iteration scheme]. *Numerische Mathematik*, 15(2):109–121, June 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schonhage:1970:MRI

[Sch70c] Arnold Schönhage. Mehrdimensionale Romberg-Integration. (German) [Multidimensional Romberg integration]. *Numerische Mathematik*, 14(3):299–304, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schroder:1970:PIP

[Sch70d] Johann Schröder. Proving inverse-positivity of linear operators by reduction. *Numerische Mathematik*, 15(2): 100–108, June 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schafer:1971:KAL

[Sch71a] Eugen Schäfer. Ein Konstruktionsverfahren bei allgemeiner linearer Approximation. (German) [A construction method for general linear approximation]. *Numerische Mathematik*, 18(2):113–126, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schryer:1971:NMC

[Sch71b] N. L. Schryer. Newton's method for convex nonlinear elliptic boundary value problems. *Numerische Mathematik*, 17(4): 284–300, August 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmeisser:1972:OQS

[Sch72a] Gerhard Schmeisser. Optimale Quadraturformeln mit semidefiniten Kernen. (German) [Optimal quadrature formulas with semidefinite kernels]. *Numerische Mathematik*, 20(1):32–53, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schryer:1972:SMN

[Sch72b] N. L. Schryer. Solution of monotone nonlinear elliptic boundary value problems. *Numerische Mathematik*, 18(4):336–344, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schaback:1973:KAE

[Sch73a] Robert Schaback. Konstruktion und algebraische Eigenschaften von M-Spline-Interpolierenden. (German) [Construction and algebraic properties of M spline interpolation]. *Numerische Mathematik*, 21(2): 166–180, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schiop:1973:SRP

[Şch73b] Alexandru I. Şchiop. Stability of Ritz procedure for nonlinear two-point boundary value problem. *Numerische Mathematik*, 20(3):208–212, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schonhage:1973:UTG

[Sch73c] A. Schönhage. Unitäre Transformationen großer Matrizen. (German) [Unitary transformation of large matrices]. *Numerische Mathematik*, 20(5): 409–417, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schuller:1974:OCC

[Sch74a] Günther Schuller. On the order of convergence of certain quasi-Newton methods. *Numerische Mathematik*, 23(2): 181–192, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schwarz:1974:MCO

[Sch74b] H. R. Schwarz. The method of coordinate overrelaxation for $(A - \lambda B)x = 0$. *Numerische Mathematik*, 23(2): 135–151, April 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schiop:1975:SRP

[Şch75a] Alexandru I. Şchiop. On the stability of the Ritz procedure for nonlinear problems. *Numerische Mathematik*, 23(4):305–310, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schneider:1975:VRR

[Sch75b] Claus Schneider. Vereinfachte Rekursionen zur Richardson-Extrapolation in Spezialfällen. (German) [Simplified recursions for Richardson extrapolation in special cases]. *Numerische Mathematik*, 24(2): 177–184, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schroder:1975:ULB

[Sch75c] Johan Schröder. Upper and lower bounds for solutions of generalized two-point boundary value problems. *Numerische Mathematik*, 23(5):433–457, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schumacher:1975:IOS

[Sch75d] Konrad Schumacher. Iterative Optimierungsverfahren, die unter schwachen Voraussetzungen konvergien. (German) [Iterative optimisation, convergence under weak assumptions]. *Numerische Mathematik*, 24(5): 443–456, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Scheurle:1977:SPI

[Sch77a] Jürgen Scheurle. Ein selektives Projektions-Iterationsverfahren und Anwendungen auf Verzweigungsprobleme. (German) [A selective projection-iteration method and bifurcation]. *Numerische Mathematik*, 29(1): 11–35, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmeisser:1977:RRM

[Sch77b] Gerhard Schmeisser. A representation for the remainder of the Maclaurin quadrature formula. *Numerische Mathematik*, 27(3):355–358, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmid:1978:CFM

[Sch78a] Hans Joachim Schmid. On cubature formulae with a minimal number of knots. *Numerische Mathematik*, 31(3): 281–297, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1978:EIE

[Sch78b] Jochen W. Schmidt. Einschließung inverser Elemente durch Fixpunktverfahren. (German) [Enclosing of inverse elements by fixed-points methods]. *Numerische Mathematik*, 31(3): 313–320, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schultz:1978:AAN

[Sch78c] Reinhart Schultz. Ein Abstiegsverfahren für Approximationsaufgaben in normierten Räumen. (German) [A descent method for approximation problems in normed spaces]. *Numerische Mathematik*, 31(1): 77–95, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schafer:1979:FEN

[Sch79a] Eugen Schäfer. Fehlerabschätzungen für Eigenwertnäherungen nach der Ersatzkernmethode bei Integralgleichungen. (German) [Error estimates for eigenvalues of integral equations computed by approximate kernel methods]. *Numerische Mathematik*, 32(3):281–290, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schomberg:1979:MCI

[Sch79b] Hermann Schomberg. Monotonically convergent iterative methods for nonlinear systems of equations. *Numerische Mathematik*, 32(1):97–104, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schneider:1980:PAS

[Sch80a] Claus Schneider. Produktintegration mit nicht-äquidistanten Stützstellen. (German) [Product integration with non-equidistant knots]. *Numerische Mathematik*, 35(1):35–43, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schulzendorff:1980:RZB

[Sch80b] Bernd Schulzendorff. Reguläre Zerlegungen und Berechnung des Spektralradius nichtnegativer Matrizen. (German) [Regular splittings and computation of the spectral radius of nonnegative matrices]. *Numerische Mathematik*, 34(2): 201–216, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Scherer:1981:OGE

[Sch81a] Karl Scherer. On optimal global error bounds obtained by scaled local error estimates.

Numerische Mathematik, 36(2): 151–176, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schittkowski:1981:NPMa

[Sch81b] Klaus Schittkowski. The nonlinear programming method of Wilson, Han, and Powell with an augmented Lagrangian type line search function. I. convergence analysis. *Numerische Mathematik*, 38(1):83–114, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schittkowski:1981:NPMb

[Sch81c] Klaus Schittkowski. The nonlinear programming method of Wilson, Han, and Powell with an augmented Lagrangian type line search function. II. an efficient implementation with linear least squares subproblems. *Numerische Mathematik*, 38(1): 115–127, October 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schaback:1982:FFK

[Sch82] R. Schaback. Fehlerabschätzungen für Koeffizienten von Exponentialsummen und Polynomen. (German) [Error estimates for coefficients of exponential sums and polynomials]. *Numerische Mathematik*, 39(2):293–307, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmitt:1983:NBR

[Sch83] Bernhard Schmitt. Norm bounds for rational matrix functions. *Numerische Mathematik*, 42(3):379–389, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schroder:1984:NEB

[Sch84] Johann Schröder. Numerical error bounds for fourth order boundary value problems, simultaneous estimation of $u(x)$ and $u''(x)$. *Numerische Mathematik*, 44(2):233–245, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schaback:1985:CAG

[Sch85a] Robert Schaback. Convergence analysis of the general Gauss–Newton algorithm. *Numerische Mathematik*, 46(2): 281–309, May 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schippers:1985:MMB

[Sch85b] H. Schippers. Multigrid methods for boundary integral equations. *Numerische Mathematik*, 46(3):351–363, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Scholz:1986:NSO

[Sch86] Reinhard Scholz. Numerical solution of the obstacle problem by the penalty method. II.

time-dependent problems. *Numerische Mathematik*, 49(2/3): 255–268, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1987:SCS

[Sch87a] Günther Schmidt. Spline collocation for singular integro-differential equations over $(0, 1)$. *Numerische Mathematik*, 50(3): 337–352, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1987:TLC

[Sch87b] Jochen W. Schmidt. On tridiagonal linear complementarity problems. *Numerische Mathematik*, 51(1):11–21, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schneid:1987:CLI

[Sch87c] Josef Schneid. B-convergence of Lobatto iiic formulas. *Numerische Mathematik*, 51(2): 229–235, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schock:1987:SIM

[Sch87d] Eberhard Schock. Semi-iterative methods for the approximate solution of ill-posed problems. *Numerische Mathematik*, 50(3): 263–271, May 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schneider:1988:ARQ

[Sch88a] Claus Schneider. An analysis of Ralston's quadrature. *Numerische Mathematik*, 52(5): 597–603, May 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schock:1988:PRA

[Sch88b] Eberhard Schock. Pointwise rational approximation and iterative methods for ill-posed problems. *Numerische Mathematik*, 54(1):91–103, October 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schild:1990:GCD

[Sch90] K. H. Schild. Gaussian collocation via defect correction. *Numerische Mathematik*, 58(4): 369–386, November 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schneider:1991:SSC

[Sch91] R. Schneider. Stability of a spline collocation method for strongly elliptic multidimensional singular integral equations. *Numerische Mathematik*, 58(8):855–873, March 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Scherzer:1993:CRI

[Sch93] O. Scherzer. Convergence rates of iterated Tikhonov regularized solutions of nonlinear ill-posed

problems. *Numerische Mathematik*, 66(2):259–279, November 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schittkowski:1994:PES

[Sch94a] K. Schittkowski. Parameter estimation in systems of nonlinear equations. *Numerische Mathematik*, 68(1): 129–142, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068001/40680129.htm; http://science.springer.de/nmee/bibs/4068001/40680129.htm`.

Schmidt:1994:BED

[Sch94b] Günther Schmidt. Boundary element discretization of Poincaré–Steklov operators. *Numerische Mathematik*, 69(1):83–101, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069001/40690083.htm; http://science.springer.de/nmee/bibs/4069001/40690083.htm`.

Schmidt:1995:AVS

[Sch95a] Wolfgang M. Schmidt. Appendix to "Approximation of viscosity solutions of elliptic partial differential equations on minimal grids" by M. Kocan: Approximation to orthogonal bases in $\mathbf{R}^n$ by orthogonal bases with integer coordinates. *Numerische Mathematik*, 72(1):117–122, November 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072001/50720117.htm; http://science.springer.de/nmee/bibs/5072001/50720117.htm`.

Schneider:1995:CRM

[Sch95b] Stefan Schneider. Convergence results for multistep Runge–Kutta methods on stiff mechanical systems. *Numerische Mathematik*, 69(4):495–508, February 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069004/50690495.htm; http://science.springer.de/nmee/bibs/5069004/50690495.htm`.

Schwab:1996:PME

[Sch96] C. Schwab. A-posteriori modeling error estimation for hierarchic plate models. *Numerische Mathematik*, 74(2): 221–259, August 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074002/60740221.htm; http://science.springer.de/nmee/bibs/6074002/60740221.htm`.

Schropp:1997:NMP

[Sch97] J. Schropp. A note on minimization problems and multistep methods. *Numerische Mathematik*, 78(1):87–101, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078001/70780087.htm; http://science.springer.de/nmee/bibs/7078001/70780087.htm`.

Scherzer:1998:IML

[Sch98] Otmar Scherzer. An iterative multi level algorithm for solving nonlinear ill-posed problems. *Numerische Mathematik*, 80(4):579–600, October 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080004/80800579.htm; http://link.springer.de/link/service/journals/00211/papers/8080004/80800579.pdf`.

Schoberl:1999:MMP

[Sch99] Joachim Schöberl. Multigrid methods for a parameter dependent problem in primal variables. *Numerische Mathematik*, 84(1):97–119, November 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084001/90840097.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084001/90840097.pdf`.

Scott:1973:FEC

[Sco73] Ridgway Scott. Finite element convergence for singular data. *Numerische Mathematik*, 21(4):317–327, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1967:FPF

[SD67] Jochen W. Schmidt and Hartmut Dressel. Fehlerabschätzungen bei Polynomgleichungen mit dem Fixpunktsatz von Brouwer. (German) [Error estimates by polynomial equations with Brouwer's fixed point estimate]. *Numerische Mathematik*, 10(1):42–50, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sack:1972:AGQ

[SD72] R. A. Sack and A. F. Donovan. An algorithm for Gaussian quadrature given modified moments. *Numerische Mathematik*, 18(5):465–478, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1994:PAM

[SD94] Mechthild Stoer and Geir Dahl. A polyhedral approach to multicommodity survivable network design. *Numerische Mathematik*, 68(1):149–167, June 1994. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4068001/40680149.htm; http://science.springer.de/nmee/bibs/4068001/40680149.htm.

Saha:1991:SOT

[SDK91] S. Saha, Purna C. Das, and N. N. Kishore. A shape-optimization technique for the capillary surface problem. *Numerische Mathematik*, 58(7): 737–757, February 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Seewald:1982:QDA

[See82] Wolfgang Seewald. Quotienten-Differenzen-Algorithmus: Beweis der Regeln von Rutishauser. (German) [Quotient-difference algorithm: proof of Rutishauser's rule]. *Numerische Mathematik*, 40(1):93–98, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schafke:1962:VBC

[SEG62] Friedrich Wilhelm Schäfke, Rudolf Ebert, and Helmut Groh. Ein Verfahren zur Berechnung des charakteristischen Exponenten der Mathieuschen Differentialgleichung. II. (German) [A method for calculation of characteristic exponents of the Mathiew differential equation. II]. *Numerische Mathematik*, 4: 1–7, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Segeth:1999:PEE

[Seg99] K. Segeth. A posteriori error estimation with the finite element method of lines for a nonlinear parabolic equation in one space dimension. *Numerische Mathematik*, 83(3):455–475, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830455.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830455.pdf.

Seidman:1963:SCD

[Sei63] Thomas I. Seidman. On the stability of certain difference schemes. *Numerische Mathematik*, 5(1):201–210, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Seoane:1995:FDA

[Seo95] M. L. Seoane. Finite-dimensional approximation of two-parameter nonlinear problems. *Numerische Mathematik*, 70(3): 353–377, May 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5070003/50700353.htm; http://science.springer.

de/nmee/bibs/5070003/50700353.htm.

Seppala:1972:NTL

[Sep72] Veikko Seppälä. A note on the theory of limit processes for solving finite equations. *Numerische Mathematik*, 20(1):80–86, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Serra:1999:KTT

[Ser99a] Stefano Serra. A Korovkin-type theory for finite Toeplitz operators via matrix algebras. *Numerische Mathematik*, 82(1):117–142, March 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082001/90820117.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082001/90820117.pdf.

Serra:1999:RCT

[Ser99b] Stefano Serra. The rate of convergence of Toeplitz based PCG methods for second order nonlinear boundary value problems. *Numerische Mathematik*, 81(3):461–495, January 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/9081003/90810461.htm; http://link.springer.de/link/service/journals/00211/papers/9081003/90810461.pdf.

Seydel:1979:NCBb

[Sey79a] Rüdiger Seydel. Numerical computation of branch points in nonlinear equations. *Numerische Mathematik*, 33(3):339–352, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Seydel:1979:NCBa

[Sey79b] Rüdiger Seydel. Numerical computation of branch points in ordinary differential equations. *Numerische Mathematik*, 32(1):51–68, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Seydel:1983:BSB

[Sey83] R. Seydel. Branch switching in bifurcation problems for ordinary differential equations. *Numerische Mathematik*, 41(1):93–116, April 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Suzuki:1986:RBR

[SF86] Takashi Suzuki and Hiroshi Fujita. A remark on the L^∞ bounds of the Ritz operator associated with a finite element approximation. *Numerische Mathematik*, 49(5):529–544, September 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Simeon:1993:DIM

[SFR93] B. Simeon, C. Führer, and P. Rentrop. The Drazin inverse in multibody system dynamics. *Numerische Mathematik*, 64(4): 521–539, April 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schafke:1962:BEM

[SG62a] F. W. Schäfke and H. Groh. Zur Berechnung der Eigenwerte der Mathieuschen Differentialgleichung. (German) [Toward computation of eigenvalues of the Mathieu differential equation]. *Numerische Mathematik*, 4:64–67, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schafke:1962:BES

[SG62b] Friedrich Wilhelm Schäfke and Helmut Groh. Zur Berechnung der Eigenwerte der Sphäroiddifferentialgleichung. (German) [On the calculation of the eigenvalues of the spheroidal differential equation]. *Numerische Mathematik*, 4:310–312, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spedicato:1978:SCV

[SG78] E. Spedicato and J. Greenstadt. On some classes of variationally derived quasi-Newton methods for systems of nonlinear algebraic equations. *Numerische Mathematik*, 29(4): 363–380, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1995:ASM

[SH95] Jochen W. Schmidt and Walter Heß. An always successful method in univariate convex C^2 interpolation. *Numerische Mathematik*, 71(2): 237–252, August 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071002/50710237.htm; http://science.springer.de/nmee/bibs/5071002/50710237.htm`.

Shaw:1967:SMF

[Sha67] B. Shaw. Some multistep formulae for special high order ordinary differential equations. *Numerische Mathematik*, 9(4):367–378, February 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shampine:1968:EBV

[Sha68] L. F. Shampine. Error bounds and variational methods for nonlinear boundary value problems. *Numerische Mathematik*, 12(5):410–415, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shah:1970:TDP

[Sha70] Jayant M. Shah. Two-dimensional polynomial splines. *Numerische Mathematik*, 15(1):

1–14, May 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shapiro:1982:OSM

[Sha82] Alexander Shapiro. Optimally scaled matrices, necessary and sufficient conditions. *Numerische Mathematik*, 39(2): 239–245, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shampine:1984:ABE

[Sha84] L. F. Shampine. Asymptotic bounds on the errors of one-step methods. *Numerische Mathematik*, 45(2):201–206, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sherman:1977:CGA

[She77] B. F. Sherman. A counterexample to Greenberg's algorithm for solving linear inequalities. *Numerische Mathematik*, 27(4): 491–492, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shen:1992:EES

[She92] Jie Shen. On error estimates of some higher order projection and penalty-projection methods for Navier–Stokes equations. *Numerische Mathematik*, 62(1): 49–73, June 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shen:1994:RPE

[She94] Jie Shen. Remarks on the pressure error estimates for the projection methods. *Numerische Mathematik*, 67(4): 513–520, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067004/40670513.htm; http://science.springer.de/nmee/bibs/4067004/40670513.htm`.

Schmidt:1985:CAN

[SHH85] Jochen W. Schmidt, Wolfgang Hoyer, and Christian Haufe. Consistent approximations in Newton-type decomposition methods. *Numerische Mathematik*, 47(3): 413–425, November 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shieh:1978:CCG

[Shi78] A. S. L. Shieh. On the convergence of the conjugate gradient method for singular capacitance matrix equations from the Neumann problem of the Poisson equation. *Numerische Mathematik*, 29(3):307–327, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shieh:1979:FPS

[Shi79] A. S. L. Shieh. Fast Poisson solvers on general two-dimensional regions for the

Dirichlet problem. *Numerische Mathematik*, 31(4):405–429, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shirey:1982:MEQ

[Shi82] James E. Shirey. Minimization of extended quadratic functions. *Numerische Mathematik*, 39(2): 157–161, August 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shroff:1991:PAE

[Shr91] Gautam M. Shroff. A parallel algorithm for the eigenvalues and eigenvectors of a general complex matrix. *Numerische Mathematik*, 58(8):779–805, March 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sidi:1982:ASC

[Sid82] Avram Sidi. An algorithm for a special case of a generalization of the Richardson extrapolation process. *Numerische Mathematik*, 38(3):299–307, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sidi:1990:GRE

[Sid90] Avram Sidi. On a generalization of the Richardson extrapolation process. *Numerische Mathematik*, 57(4):365–377, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Siebert:1996:PEE

[Sie96] Kunibert G. Siebert. An a posteriori error estimator for anisotropic refinement. *Numerische Mathematik*, 73(3): 373–398, May 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6073003/60730373.htm; http://science.springer.de/nmee/bibs/6073003/60730373.htm`.

Sikkema:1959:GAB

[Sik59] P. C. Sikkema. Über den Grad der Approximation mit Bernstein–Polynomen. (German) [On the degree of approximation with Bernstein polynomials]. *Numerische Mathematik*, 1(1):221–239, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=221`.

Sikkema:1961:WEK

[Sik61] P. C. Sikkema. Der Wert einiger Konstanten in der Theorie der Approximation mit Bernstein-Polynomen.. (German) [The value of some constants in the approximation theory for Bernstein polynomials]. *Numerische Mathematik*, 3:107–116, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sikorski:1982:BO

[Sik82a] K. Sikorski. Bisection is optimal. *Numerische Mathematik*, 40(1):111–117, November 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sikorski:1982:OQA

[Sik82b] K. Sikorski. Optimal quadrature algorithms in H_p spaces. *Numerische Mathematik*, 39 (3):405–410, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `https://link.springer.com/article/10.1007/BF01407871`.

Sikorski:1984:OSN

[Sik84] K. Sikorski. Optimal solution of nonlinear equations satisfying a Lipschitz condition. *Numerische Mathematik*, 43(2): 225–240, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Simpson:1978:NIS

[Sim78] I. C. Simpson. Numerical integration over a semi-infinite interval, using the lognormal distribution. *Numerische Mathematik*, 31(1):71–76, March 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Simoncini:1998:MAA

[Sim98] V. Simoncini. A matrix analysis of Arnoldi and Lanczos methods. *Numerische Mathematik*, 81(1):125–141, November 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081001/80810125.htm; http://link.springer.de/link/service/journals/00211/papers/8081001/80810125.pdf`.

Shi:1997:NSP

[SJX97] Zhong-Ci Shi, Bin Jiang, and Weimin Xue. A new superconvergence property of Wilson nonconforming finite element. *Numerische Mathematik*, 78(2): 259–268, December 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078002/70780259.htm; http://science.springer.de/nmee/bibs/7078002/70780259.htm`.

Shimasaki:1973:NSI

[SK73] Masaaki Shimasaki and Takeshi Kiyono. Numerical solution of integral equations in Chebyshev series. *Numerische Mathematik*, 21(5):373–380, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sauter:1996:ENI

[SK96] S. A. Sauter and A. Krapp. On the effect of numerical integration in the Galerkin boundary element method. *Numerische*

Mathematik, 74(3):337–359, September 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/6074003/60740337.htm; http://science.springer.de/nmee/bibs/6074003/60740337.htm.

Skeel:1986:TWE

[Ske86] Robert D. Skeel. Thirteen ways to estimate global error. *Numerische Mathematik*, 48(1):1–20, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sapidis:1988:MCT

[SKL88] N. S. Sapidis, P. D. Kaklis, and T. A. Loukakis. A method for computing the tension parameters in convexity-preserving spline-in-tension interpolation. *Numerische Mathematik*, 54(2):179–192, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Skrzipek:1998:PEA

[Skr98] Michael-Ralf Skrzipek. Polynomial evaluation and associated polynomials. *Numerische Mathematik*, 79(4):601–613, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8079004/80790601.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790601.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790601.ps.gz.

Sakai:1986:SRS

[SL86] Manabu Sakai and M. C. López de Silanes. A simple rational spline and its application to monotonic interpolation to monotonic data. *Numerische Mathematik*, 50(2):171–182, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sloan:1976:EAC

[Slo76] Ian H. Sloan. Error analysis for a class of degenerate-kernel methods. *Numerische Mathematik*, 25(3):231–238, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sloboda:1980:GCG

[Slo80] Fridrich Sloboda. A generalized conjugate gradient algorithm for minimization. *Numerische Mathematik*, 35(2):223–230, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sloan:1981:AGQ

[Slo81] Ian H. Sloan. Analysis of general quadrature methods for integral equations of the second kind. *Numerische Mathematik*, 38(2):263–278, December 1981.

CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sloan:1988:QBA

[Slo88] Ian H. Sloan. A quadrature-based approach to improving the collocation method. *Numerische Mathematik*, 54(1):41–56, October 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Smith:1965:QMB

[Smi65] Francis J. Smith. Quadrature methods based on the Clenshaw–Curtis method of integration. *Numerische Mathematik*, 7(5):406–411, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Smith:1967:CNM

[Smi67] R. A. Smith. The condition numbers of the matrix eigenvalue problem. *Numerische Mathematik*, 10(3):232–240, October 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Smith:1991:DDA

[Smi91] Barry F. Smith. A domain decomposition algorithm for elliptic problems in three dimensions. *Numerische Mathematik*, 60(2):219–234, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Smoch:1990:AEM

[Smo90] Martin Smoch. Anmerkungen zu einem Mehrgitterverfahren für lineare Komplementaritätsprobleme. (German) [Remarks on a multigrid method for linear complementarity problems]. *Numerische Mathematik*, 57(1):80–83, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stynes:1986:FEM

[SO86] Martin Stynes and Eugene O'Riordan. A finite element method for a singularly perturbed boundary value problem. *Numerische Mathematik*, 50(1): 1–15, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stynes:1987:UCD

[SO87] Martin Stynes and Eugene O'Riordan. L^1 and L^∞ uniform convergence of a difference scheme for a semilinear singular perturbation problem. *Numerische Mathematik*, 50(5): 519–531, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stynes:1989:UCD

[SO89] Martin Stynes and Eugene O'Riordan. Uniformly convergent difference schemes for singularly perturbed parabolic diffusion-convection problems without turning points. *Numerische Mathematik*, 55(5):

521–544, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Socolovsky:1988:NAF

[Soc88] E. A. Socolovsky. On the numerical approximation of finite speed diffusion problems. *Numerische Mathematik*, 53(1/2): 97–105, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Soderlind:1986:BNO

[Söd86] Gustaf Söderlind. Bounds on nonlinear operators in finite-dimensional Banach spaces. *Numerische Mathematik*, 50(1):27–44, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sonar:1992:EPS

[Son92] T. Sonar. Entropy production in second-order three-point schemes. *Numerische Mathematik*, 62(3):371–390, August 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Song:1993:SCT

[Son93] Yongzhong Song. Some comparison theorems for nonnegative splittings of matrices. *Numerische Mathematik*, 65(2): 245–252, June 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Soukup:1969:MFR

[Sou69] Jiří Soukup. A method for finding the roots of a polynomial. *Numerische Mathematik*, 13(4): 349–353, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saint-Pierre:1972:CND

[SP72] Patrick Saint-Pierre. Sur la convergence numérique de différentes méthodes de décomposition pour une class de problèmes elliptiques. (French) [On the numerical convergence of different methods of decomposition for a class of elliptic problems]. *Numerische Mathematik*, 19(5): 439–449, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sweldens:1994:AEE

[SP94] Wim Sweldens and Robert Piessens. Asymptotic error expansion of wavelet approximations of smooth functions. II. *Numerische Mathematik*, 68(3): 377–401, September 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068003/40680377.htm`; `http://science.springer.de/nmee/bibs/4068003/40680377.htm`.

Spath:1986:OLS

[Spä86] H. Späth. Orthogonal least squares fitting with linear manifolds. *Numerische Mathematik*, 48(4):441–445, April 1986. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Spann:1993:BEM

[Spa93] W. Spann. On the boundary element method for the Signorini problem of the Laplacian. *Numerische Mathematik*, 65(3): 337–356, July 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spann:1994:EEA

[Spa94] W. Spann. Error estimates for the approximation of semicoercive variational inequalities. *Numerische Mathematik*, 69(1):103–116, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069001/40690103.htm; http://science.springer.de/nmee/bibs/4069001/40690103.htm`.

Spellucci:1971:DPA

[Spe71] P. Spellucci. Double precision approximations to the elementary functions using Jacobi-fractions. *Numerische Mathematik*, 18(2):127–143, April 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spence:1975:CNM

[Spe75] Alastair Spence. On the convergence of the Nyström method for the integral equation eigenvalue problem. *Numerische Mathematik*, 25(1): 57–66, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spence:1978:EBE

[Spe78] Alastair Spence. Error bounds and estimates for eigenvalues of integral equations. *Numerische Mathematik*, 29(2): 133–147, January 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spence:1979:EBE

[Spe79] Alastair Spence. Error bounds and estimates for eigenvalues of integral equations. II. *Numerische Mathematik*, 32(2): 139–146, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spijker:1966:CSS

[Spi66] M. N. Spijker. Convergence and stability of step-by-step methods for the numerical solution of initial-value problems. *Numerische Mathematik*, 8(2):161–177, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spijker:1971:SEE

[Spi71] M. N. Spijker. On the structure of error estimates for finite-difference methods. *Numerische Mathematik*, 18(1):73–100, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spijker:1976:PTE

[Spi76] M. N. Spijker. On the possibility of two-sided error bounds in the numerical solution of initial value problems. *Numerische Mathematik*, 26(3): 271–300, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spijker:1983:CNS

[Spi83] M. N. Spijker. Contractivity in the numerical solution of initial value problems. *Numerische Mathematik*, 42(3): 271–290, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spijker:1986:MBI

[Spi86] M. N. Spijker. Monotonicity and boundedness in implicit Runge–Kutta methods. *Numerische Mathematik*, 50(1):97–109, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sprekels:1976:EEE

[Spr76] Jürgen Sprekels. Existenz und erste Einschließung positiver Lösungen bei superlinearen Randwertaufgaben zweiter Ordnung. (German) [Existence and first bounds of positive solutions of superlinear second-order boundary value problems]. *Numerische Mathematik*, 26(4): 421–428, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sprekels:1980:EBS

[Spr80] Jürgen Sprekels. Exact bounds for the solution branches of nonlinear eigenvalue problems. *Numerische Mathematik*, 34(1): 29–40, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Squier:1969:OSM

[Squ69] D. P. Squier. One-step methods for ordinary differential equations. *Numerische Mathematik*, 13(2):176–179, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sreedharan:1969:SOL

[Sre69] V. P. Sreedharan. Solutions of overdetermined linear equations which minimize error in an abstract norm. *Numerische Mathematik*, 13(2):146–151, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sreedharan:1971:LSA

[Sre71] V. P. Sreedharan. Least squares algorithms for finding solutions of overdetermined linear equations which minimize error in an abstract norm. *Numerische Mathematik*, 17(5):387–401, October 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

SriRanga:1994:AQR

[Sri94] A. Sri Ranga. Another quadrature rule of highest algebraic degree of precision. *Numerische Mathematik*, 68(2): 283–294, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680283.htm; http://science.springer.de/nmee/bibs/4068002/40680283.htm`.

Schneider:1962:CTS

[SS62] Hans Schneider and W. Gilbert Strang. Comparison theorems for supremum norms. *Numerische Mathematik*, 4:15–20, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shah:1965:ACF

[SS65] S. M. Shah and P. Suryanarayana. Approximation of continuous functions by power series with polynomial coefficients. *Numerische Mathematik*, 7(5):420–425, October 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schaefke:1966:VBC

[SS66] Friedrich W. Schaefke and Dieter Schmidt. Ein Verfahren zur Berechnung des charakteristischen Exponenten der Mathieuschen Differentialgleichung. III. (German) [A method for computation of the characteristic exponent of Mathieu' differential equation. III]. *Numerische Mathematik*, 8(1):68–71, March 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saunders:1976:SNR

[SS76] B. David Saunders and Hans Schneider. A symmetric numerical range for matrices. *Numerische Mathematik*, 26(1):99–105, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sloan:1978:PCR

[SS78] Ian H. Sloan and W. E. Smith. Product-integration with the Clenshaw–Curtis and related points-convergence properties. *Numerische Mathematik*, 30(4): 415–428, December 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schittkowski:1979:FMS

[SS79] K. Schittkowski and J. Stoer. A factorization method for the solution of constrained linear least squares problems allowing subsequent data changes. *Numerische Mathematik*, 31(4): 431–463, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sloan:1980:PIC

[SS80] Ian H. Sloan and William E. Smith. Product integration with

the Clenshaw–Curtis points: implementation and error estimates. *Numerische Mathematik*, 34(4):387–401, December 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sanz-Serna:1984:CLM

[SS84] J. M. Sanz-Serna. Convergence of the Lambert-McLeod trajectory solver and of the CELF method. *Numerische Mathematik*, 45(2):173–182, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1988:CDB

[SS88] G. Schmidt and H. Strese. The convergence of a direct BEM for the plane mixed boundary value problem of the Laplacian. *Numerische Mathematik*, 54(2): 145–165, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1990:DAC

[SS90] Jochen W. Schmidt and Isa Scholz. A dual algorithm for convex-concave data smoothing by cubic C^2-splines. *Numerische Mathematik*, 57(4): 333–350, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sun:1995:AFO

[SS95] Guang Fu Sun and Martin Stynes. An almost fourth order uniformly convergent difference scheme for a semilinear singularly perturbed reaction-diffusion problem. *Numerische Mathematik*, 70(4): 487–500, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070004/50700487.htm; http://science.springer.de/nmee/bibs/5070004/50700487.htm`.

Stenberg:1996:MFE

[SS96] Rolf Stenberg and Manil Suri. Mixed *h-p* finite element methods for problems in elasticity and Stokes flow. *Numerische Mathematik*, 72(3):367–389, January 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6072003/60720367.htm; http://science.springer.de/nmee/bibs/6072003/60720367.htm`.

Sauter:1997:QGB

[SS97] Stefan A. Sauter and Christoph Schwab. Quadrature for *hp*-Galerkin BEM in $\mathbf{R}^3$. *Numerische Mathematik*, 78(2): 211–258, December 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078002/70780211.htm; http://science.springer.de/nmee/bibs/7078002/70780211.htm`.

Sonar:1998:DGN

[SS98] Thomas Sonar and Endre Süli. A dual graph-norm refinement indicator for finite volume approximations of the Euler equations. *Numerische Mathematik*, 78(4):619–658, February 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078004/70780619.htm; http://science.springer.de/nmee/bibs/7078004/70780619.htm`.

Szymczak:1988:MDS

[SSBB88] W. G. Szymczak, J. M. Solomon, A. E. Berger, and J. B. Bell. Multiple discrete solutions of the incompressible steady-state Navier–Stokes equations. *Numerische Mathematik*, 53(1/2):31–50, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sanz-Serna:1986:RSE

[SSS86] J. M. Sanz-Serna and M. N. Spijker. Regions of stability, equivalence theorems and the Courant-Friedrichs-Lewy condition. *Numerische Mathematik*, 49(2/3):319–329, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schotzau:1999:MHF

[SSS99] Dominik Schötzau, Christoph Schwab, and Rolf Stenberg. Mixed *hp*-FEM on anisotropic meshes II: Hanging nodes and tensor products of boundary layer meshes. *Numerische Mathematik*, 83(4):667–697, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830667.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830667.pdf`.

Saff:1976:EGC

[SSV76a] E. B. Saff, A. Schönhage, and R. S. Varga. Errata: "Geometric convergence to e^{-z} by rational functions with real poles". *Numerische Mathematik*, 26(2):226, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [SSV76b].

Saff:1976:GCRa

[SSV76b] E. B. Saff, A. Schönhage, and R. S. Varga. Geometric convergence to e^{-z} by rational functions with real poles. *Numerische Mathematik*, 25(3):307–322, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See errata [SSV76a].

Sanz-Serna:1987:COR

[SSVH87] J. M. Sanz-Serna, J. G. Verwer, and W. H. Hundsdorfer. Convergence and order reduction of Runge–Kutta schemes applied to evolutionary problems in partial differential equa-

tions. *Numerische Mathematik*, 50(4):405–418, July 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schroder:1973:RDB

[ST73] Johann Schröder and Ulrich Trottenberg. Reduktionsverfahren für DIfferenzengleichungen bie Randwertaufgaben. I. (German) [Reduction method for difference equations for boundary value problems. I]. *Numerische Mathematik*, 22(1): 37–68, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Steidl:1989:ITM

[ST89] Gabriele Steidl and Manfred Tasche. Index transforms for multidimensional DFTs and convolutions. *Numerische Mathematik*, 56(5):513–528, November 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sikorski:1990:ANO

[ST90] K. Sikorski and G. M. Trojan. Asymptotic near optimality of the bisection method. *Numerische Mathematik*, 57(5): 421–433, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schumaker:1991:FSD

[ST91] Larry L. Schumaker and Cornelis Traas. Fitting scattered data on spherelike surfaces using tensor products of trigonometric and polynomial splines. *Numerische Mathematik*, 60(1): 133–144, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stallmann:1970:NSI

[Sta70] Friedmann W. Stallmann. Numerical solution of integral equations. *Numerische Mathematik*, 15(4):297–305, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Starius:1977:CMD

[Sta77a] Gøran Starius. Composite mesh difference methods for elliptic boundary value problems. *Numerische Mathematik*, 28(2): 243–258, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Starius:1977:COC

[Sta77b] Göran Starius. Constructing orthogonal curvilinear meshes by solving initial value problems. *Numerische Mathematik*, 28(1): 25–48, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Starius:1980:CMD

[Sta80] Göran Starius. On composite mesh difference methods for hyperbolic differential equations. *Numerische Mathematik*, 35(3): 241–255, October 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stachurski:1981:SCS

[Sta81] Andrzej Stachurski. Superlinear convergence of symmetric Huang's class of methods. *Numerische Mathematik*, 38(2): 209–218, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Starke:1997:FVA

[Sta97] Gerhard Starke. Field-of-values analysis of preconditioned iterative methods for nonsymmetric elliptic problems. *Numerische Mathematik*, 78(1):103–117, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078001/70780103.htm; http://science.springer.de/nmee/bibs/7078001/70780103.htm`.

Stetter:1961:CCF

[Ste61] Hans J. Stetter. On the convergence of characteristic finite-difference methods of high accuracy for quasi-linear hyperbolic equations. *Numerische Mathematik*, 3(1):321–344, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=321`.

Stetter:1963:MBS

[Ste63] Hans J. Stetter. Maximum bounds for the solutions of initial value problems for partial difference equations. *Numerische Mathematik*, 5(1):399–424, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stetter:1965:AEE

[Ste65] Hans J. Stetter. Asymptotic expansions for the error of discretization algorithms for nonlinear functional equations. *Numerische Mathematik*, 7(1):18–31, February 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stenger:1966:BEG

[Ste66a] Frank Stenger. Bounds on the error of Gauss-type quadratures. *Numerische Mathematik*, 8(2): 150–160, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stenger:1966:EBE

[Ste66b] Frank Stenger. Error bounds for the evaluation of integrals by repeated Gauss-type formulae. *Numerische Mathematik*, 9(3): 200–213, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stetter:1966:NAF

[Ste66c] Hans J. Stetter. Numerical approximation of Fourier-transforms. *Numerische Mathematik*, 8(3):235–249, May 1966. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Stewart:1967:GTF

[Ste67] G. W. Stewart III. A generalization of a theorem of Fan on Gershgorin disks. *Numerische Mathematik*, 10:162, 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://zbmath.org/?q=an:0158.03504`. See original paper by Fan at `https://doi.org/10.1215/S0012-7094-58-02538-9`, `https://zbmath.org/?q`an:0081.25202=.

Stetter:1968:INM

[Ste68] Hans J. Stetter. Instability and non-monotonicity phenomena in discretizations to boundary value problems. *Numerische Mathematik*, 12(2):139–145, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1969:AOI

[Ste69a] G. W. Stewart. Accelerating the orthogonal iteration for the eigenvectors of a Hermitian matrix. *Numerische Mathematik*, 13(4):362–376, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1969:SIF

[Ste69b] G. W. Stewart. Some iterations for factoring a polynomial. *Numerische Mathematik*, 13(5): 458–470, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1970:SIF

[Ste70] G. W. Stewart. On Samelson's iteration for factoring polynomials. *Numerische Mathematik*, 15 (4):306–314, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1971:COA

[Ste71] G. W. Stewart. On a companion operator for analytic functions. *Numerische Mathematik*, 18(1): 26–43, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Steinberg:1972:NSV

[Ste72] J. Steinberg. Numerical solution of Volterra integral equation. *Numerische Mathematik*, 19(3):212–217, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1973:CDM

[Ste73a] G. W. Stewart. Conjugate direction methods for solving systems of linear equations. *Numerische Mathematik*, 21(4):285–297, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1973:SIF

[Ste73b] G. W. Stewart. Some iterations for factoring a polynomial. II: a generalization of the secant method. *Numerische Math-*

ematik, 22(1):33–36, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stenger:1975:CTD

[Ste75a] Frank Stenger. Computing the topological degree of a mapping in R^n. *Numerische Mathematik*, 25(1):23–38, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1975:CMC

[Ste75b] G. W. Stewart. The convergence of the method of conjugate gradients at isolated extreme points of the spectrum. *Numerische Mathematik*, 24(2): 85–93, April 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1976:ESP

[Ste76a] G. W. Stewart. The economical storage of plane rotations. *Numerische Mathematik*, 25(2): 137–138, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1976:SIC

[Ste76b] G. W. Stewart. Simultaneous iteration for computing invariant subspaces of non-Hermitian matrices. *Numerische Mathematik*, 25(2):123–136, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stenger:1978:OCM

[Ste78a] Frank Stenger. Optimal convergence of minimum norm approximations in H_p. *Numerische Mathematik*, 29(4): 345–362, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stetter:1978:DCP

[Ste78b] Hans J. Stetter. The defect correction principle and discretization methods. *Numerische Mathematik*, 29(4): 425–443, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1982:CDP

[Ste82] G. W. Stewart. Computing the CS decomposition of a partitioned orthonormal matrix. *Numerische Mathematik*, 40(3): 297–306, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1984:IPN

[Ste84] G. W. Stewart. On the invariance of perturbed null vectors under column scaling. *Numerische Mathematik*, 44(1): 61–65, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stenberg:1986:COM

[Ste86] Rolf Stenberg. On the construction of optimal mixed finite element methods for the

linear elasticity problem. *Numerische Mathematik*, 48(4): 447–462, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stenberg:1988:FMF

[Ste88] Rolf Stenberg. A family of mixed finite elements for the elasticity problem. *Numerische Mathematik*, 53(5):513–538, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stenberg:1990:SNF

[Ste90a] Rolf Stenberg. Some new families of finite elements for the Stokes equations. *Numerische Mathematik*, 56(8): 827–838, February 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1990:HAM

[Ste90b] David Stewart. A high accuracy method for solving ODEs with discontinuous right-hand side. *Numerische Mathematik*, 58(3): 299–328, October 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stevenson:1993:RMG

[Ste93a] Rob Stevenson. Robustness of multi-grid applied to anisotropic equations on convex domains and on domains with re-entrant corners. *Numerische Mathematik*, 66(3):373–398, December 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1993:PMC

[Ste93b] G. W. Stewart. On the perturbation of Markov chains with nearly transient states. *Numerische Mathematik*, 65(1): 135–141, May 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stevenson:1994:MIS

[Ste94a] Rob Stevenson. Modified ILU as a smoother. *Numerische Mathematik*, 68(2): 295–309, July 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068002/40680295.htm; http://science.springer.de/nmee/bibs/4068002/40680295.htm`.

Stewart:1994:CMI

[Ste94b] G. W. Stewart. On the convergence of multipoint iterations. *Numerische Mathematik*, 68(1): 143–147, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068001/40680143.htm; http://science.springer.de/nmee/bibs/4068001/40680143.htm`.

Stengle:1995:EAR

[Ste95] Gilbert Stengle. Error analysis of a randomized numeri-

cal method. *Numerische Mathematik*, 70(1):119–128, March 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5070001/50700119.htm; http://science.springer.de/nmee/bibs/5070001/50700119.htm.

Stevenson:1997:RHB

[Ste97] Rob Stevenson. A robust hierarchical basis preconditioner on general meshes. *Numerische Mathematik*, 78(2):269–303, December 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7078002/70780269.htm; http://science.springer.de/nmee/bibs/7078002/70780269.htm.

Stevenson:1998:STW

[Ste98] Rob Stevenson. Stable three-point wavelet bases on general meshes. *Numerische Mathematik*, 80(1):131–158, July 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/8080001/80800131.htm; http://link.springer.de/link/service/journals/00211/papers/8080001/80800131.pdf; http://link.springer.de/link/service/journals/00211/papers/8080001/80800131.ps.gz.

Stewart:1999:FAE

[Ste99] G. W. Stewart. Four algorithms for the efficient computation of truncated pivoted QR approximations to a sparse matrix. *Numerische Mathematik*, 83(2):313–323, August 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9083002/90830313.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083002/90830313.pdf.

Stiefel:1959:DLT

[Sti59] E. Stiefel. Über diskrete und lineare Tschebyscheff-Approximationen. (German) [On discrete and linear Chebyshev approximations]. *Numerische Mathematik*, 1:1–28, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stiefel:1960:NJE

[Sti60] E. Stiefel. Note on Jordan elimination, linear programming and Tchebyscheff approximation. *Numerische Mathematik*, 2(1):1–17, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Still:1988:CBE

[Sti88] Georg Still. Computable bounds for eigenvalues and eigenfunctions of elliptic differential oper-

ators. *Numerische Mathematik*, 54(2):201–223, November 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1961:ZAI

[Sto61] Josef Stoer. Über zwei Algorithmen zur Interpolation mit rationalen Funktionen. (German) [On two algorithms for interpolation with rational functions]. *Numerische Mathematik*, 3(1): 285–304, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=285`.

Stone:1962:BPR

[Sto62] Betty Jane Stone. Best possible ratios of certain matrix norms. *Numerische Mathematik*, 4:114–116, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1963:DNP

[Sto63] J. Stoer. Duality in nonlinear programming and the minimax theorem. *Numerische Mathematik*, 5(1):371–379, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1964:CLU

[Sto64a] J. Stoer. On the characterization of least upper bound norms in matrix space. *Numerische Mathematik*, 6(1):302–314, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1964:UDN

[Sto64b] J. Stoer. Über einen Dualitätssatz der nichtlinearen Programmierung. (German) [On a duality theorem of nonlinear programming]. *Numerische Mathematik*, 6(1):55–58, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoss:1967:VBC

[Sto67] Hanns-Jörg Stoss. Ein Verfahren zur Berechnung des charakteristischen Exponenten der Differentialgleichung $y'' + (\lambda + 2\lambda 1 cos\chi + 2\lambda 2 cos 2\chi)y = 0$. (German) [A procedure for the computation of the characteristic exponent of the differential equation $y'' + (\lambda + 2\lambda 1 cos\chi + 2\lambda 2 cos 2\chi)y = 0$]. *Numerische Mathematik*, 10(5): 423–436, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1968:LBM

[Sto68] Josef Stoer. Lower bounds of matrices. *Numerische Mathematik*, 12(2):146–158, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoss:1970:MED

[Sto70] Hanns-Jörg Stoß. Monotonie-Eigenschaften bei Differentialungleichungen über nichtkompaktem Grundbereich. (German) [Monotone eigenvalues of differential equations over non-compact fields]. *Numerische Mathematik*, 15(1):61–73, May 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1977:RBQ

[Sto77] J. Stoer. On the relation between quadratic termination and convergence properties of minimization algorithms. I. theory. *Numerische Mathematik*, 28(3):343–366, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stokes:1983:ESW

[Sto83] A. N. Stokes. Efficient stable ways to calculate continued fraction coefficients from some series. *Numerische Mathematik*, 42(2):237–245, November 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1984:CMG

[Sto84] Josef Stoer. The convergence of matrices generated by rank-2 methods from the restricted β-class of Broyden. *Numerische Mathematik*, 44(1):37–52, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoffer:1993:GLM

[Sto93] Daniel Stoffer. General linear methods: connection to one step methods and invariant curves. *Numerische Mathematik*, 64(3): 395–408, March 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoffer:1997:QBS

[Sto97] Daniel Stoffer. On the qualitative behaviour of symplectic integrators. Part I: Perturbed linear systems. *Numerische Mathematik*, 77(4):535–547, October 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077004/70770535.htm; http://science.springer.de/nmee/bibs/7077004/70770535.htm`.

Struble:1963:OPV

[Str63] George W. Struble. Orthogonal polynomials: Variable-signed weight functions. *Numerische Mathematik*, 5(1):88–94, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strang:1964:APD

[Str64] G. Strang. Accurate partial difference methods. II: Non-linear problems. *Numerische Mathematik*, 6(1):37–46, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stroud:1966:SAI

[Str66] A. H. Stroud. Some approximative integration formulas of degree 3 for an n-dimensional simplex. *Numerische Mathematik*, 9 (1):38–45, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stroud:1967:SFD

[Str67] A. H. Stroud. Some fifth degree integration formulas for symmetric regions II. *Numerische Mathematik*, 9(5):460–468, April 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stroud:1968:SSD

[Str68] A. H. Stroud. Some seventh degree integration formulas for the surface of an n-sphere. *Numerische Mathematik*, 11(3): 273–276, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strassen:1969:GEO

[Str69] Volker Strassen. Gaussian elimination is not optimal. *Numerische Mathematik*, 13(4): 354–356, August 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). The author shows that matrix multiplication can be done with fewer than $4.7 \times n^{\log_2 7} \approx 4.7 \times n^{2.807}$ arithmetic operations, and that Gaussian elimination and matrix inversion can be done with $O(n^{\log_2 7}$ arithmetic operations.

Strang:1972:AFE

[Str72] Gilbert Strang. Approximation in the finite element method. *Numerische Mathematik*, 19(1): 81–98, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strassen:1973:BEF

[Str73a] Volker Strassen. Die Berechnungskomplexität von elementarsymmetrischen Funktionen und von Interpolationskoeffizienten. (German) [The computational complexity of elementary symmetric functions and interpolation coefficients]. *Numerische Mathematik*, 20(3): 238–251, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strom:1973:MEB

[Str73b] Torsten Ström. Monotonicity and error bounds in schemes of Romberg type for the computation of $f^{(n)}(0)$ by central differences and extrapolation. *Numerische Mathematik*, 21(1):14–21, February 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schroder:1976:RDB

[STR76] Johann Schröder, Ulrich Trottenberg, and Heinz Reutersberg. Reduktionsverfahren für DIfferenzengleichungen bie Randwertaufgaben. II. (German) [Solving difference equations for boundary value problems by reduction methods. II]. *Numerische Mathematik*, 26(4):

429–459, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strauss:1982:UBO

[Str82] Hans Strauß. Unicity of best one-sided L_1-approximations. *Numerische Mathematik*, 40(2): 229–243, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strauss:1984:MQF

[Str84] H. Strauss. Monotonicity of quadrature formulae of Gauss type and comparison theorems for monosplines. *Numerische Mathematik*, 44(3): 337–347, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strack:1986:SAI

[Str86] Klaus-Günther G. Strack. Stability and accuracy for implicit semidiscretizations of hyperbolic problems. *Numerische Mathematik*, 48(2): 221–237, February 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stummel:1976:WSW

[Stu76] Friedrich Stummel. Weak stability and weak discrete convergence of continuous mappings. *Numerische Mathematik*, 26(3): 301–315, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stummel:1985:FEAa

[Stu85a] Friedrich Stummel. Forward error analysis of Gaussian elimination. I. error and residual estimates. *Numerische Mathematik*, 46(3):365–395, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stummel:1985:FEAb

[Stu85b] Friedrich Stummel. Forward error analysis of Gaussian elimination. II. stability theorems. *Numerische Mathematik*, 46(3): 397–415, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Studniarski:1989:ACO

[Stu89] Marcin Studniarski. An algorithm for calculating one subgradient of a convex function of two variables. *Numerische Mathematik*, 55(6):685–693, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stynes:1979:SST

[Sty79] Martin Stynes. A simplification of Stenger's topological degree formula. *Numerische Mathematik*, 33(2):147–155, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stynes:1981:CSR

[Sty81] Martin Stynes. On the construction of sufficient refinements for computation of topological degree. *Numerische Mathematik*, 37(3):453–462, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sakai:1989:CSE

[SU89] Manabu Sakai and Riaz A. Usmani. A class of simple exponential B-splines and their application to numerical solution to singular perturbation problems. *Numerische Mathematik*, 55(5): 493–500, August 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sugihara:1997:ODE

[Sug97] Masaaki Sugihara. Optimality of the double exponential formula — functional analysis approach. *Numerische Mathematik*, 75(3):379–395, January 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7075003/70750379.htm; http://science.springer.de/nmee/bibs/7075003/70750379.htm`.

Suli:1988:CNS

[Sül88] Endre Süli. Convergence and nonlinear stability of the Lagrange–Galerkin method for the Navier–Stokes equations. *Numerische Mathematik*, 53(4): 459–483, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sunouchi:1968:PTD

[Sun68] Haruo Sunouchi. Perturbation theory of difference schemes. *Numerische Mathematik*, 12(5): 454–458, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sun:1995:HOD

[Sun95] W. Sun. A high order direct method for solving Poisson's equation in a disc. *Numerische Mathematik*, 70(4): 501–506, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5070004/50700501.htm; http://science.springer.de/nmee/bibs/5070004/50700501.htm`.

Sun:1998:FAH

[Sun98] W. Sun. Fast algorithms for high-order spline collocation systems. *Numerische Mathematik*, 81(1):143–160, November 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8081001/80810143.htm; http://link.springer.de/link/service/journals/00211/papers/8081001/80810143.pdf`.

Suschowk:1964:DAG

[Sus64] D. Suschowk. Difference analogues of Green's identities for grids in R^n. *Numerische Mathematik*, 6(1):200–210, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schultz:1967:S

[SV67] M. H. Schultz and R. S. Varga. L-splines. *Numerische Mathematik*, 10(4):345–369, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schmidt:1970:LMN

[SV70] Jochen W. Schmidt and Klaus Vetters. Ableitsungfreie Verfahren für nichtlineare Optimierungsprobleme. (German) [Lossless method for nonlinear optimization problem]. *Numerische Mathematik*, 15(4): 263–282, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Saff:1975:ZPP

[SV75] E. B. Saff and R. S. Varga. On the zeros and poles of Padé approximants to e^z. *Numerische Mathematik*, 25(1):1–14, March 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [SV76a].

Saff:1976:EZP

[SV76a] E. B. Saff and R. S. Varga. Erratum: "On the zeros and poles of Padé approximants to e^z". *Numerische Mathematik*, 26(2):226, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [SV75].

Saff:1976:STC

[SV76b] E. B. Saff and R. S. Varga. On the sharpness of theorems concerning zero-free regions for certain sequences of polynomials. *Numerische Mathematik*, 26(4): 345–354, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [SV77].

Saff:1977:EST

[SV77] E. B. Saff and R. S. Varga. Erratum: "On the sharpness of theorems concerning zero-free regions for certain sequences of polynomials" (Numer. Math. **26** (1976), no. 4, 345–354). *Numerische Mathematik*, 28(1): 119, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [SV76b].

Saff:1978:ZPP

[SV78] E. B. Saff and R. S. Varga. On the zeros and poles of Padé approximants to e^z. III. *Numerische Mathematik*, 30(3): 241–266, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sprekels:1979:PIF

[SV79] Jürgen Sprekels and Heinrich Voss. Pointwise inclusions of fixed points by finite-dimensional iteration schemes. *Numerische Mathematik*, 32(4): 381–392, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

SacchiLandriani:1990:MSC

[SV90] G. Sacchi Landriani and H. Vandeven. A multidomain spectral collocation method for the Stokes problem. *Numerische Mathematik*, 58(4): 441–464, November 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Starke:1993:HAF

[SV93] Gerhard Starke and Richard S. Varga. A hybrid Arnoldi-Faber iterative method for nonsymmetric systems of linear equations. *Numerische Mathematik*, 64(2):213–240, February 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Svecoa:1970:BSC

[Šve70] H. Švecoá. On the Bauer's scaled condition number of matrices arising from approximate conformal mapping. *Numerische Mathematik*, 14(5): 495–507, April 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=14&issue=5&spage=495`.

Saff:1976:GCRb

[SVN76] E. B. Saff, R. S. Varga, and W.-C. Ni. Geometric convergence of rational approximations to e^{-z} in infinite sectors. *Numerische Mathematik*, 26(2): 211–225, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stoer:1962:TDM

[SW62] J. Stoer and C. Witzgall. Transformations by diagonal matrices in a normed space. *Numerische Mathematik*, 4:158–171, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Symm:1980:REB

[SW80] H. J. Symm and J. H. Wilkinson. Realistic error bounds for a simple eigenvalue and its associated eigenvector. *Numerische Mathematik*, 35(2): 113–126, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Strehmel:1984:PAR

[SW84] K. Strehmel and R. Weiner. Partitioned adaptive Runge–Kutta methods and their stability. *Numerische Mathematik*, 45(2): 283–300, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Spath:1987:OLA

[SW87] H. Späth and G. A. Watson. On orthogonal linear ℓ_1 approximation. *Numerische Mathematik*, 51(5):531–543, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Schwab:1992:NCS

[SW92] C. Schwab and W. L. Wendland. On numerical cubatures of singular surface integrals in boundary element methods. *Numerische Mathematik*, 62(3):343–369, August 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sivakumar:1993:LSF

[SW93] N. Sivakumar and J. D. Ward. On the least squares fit by radial functions to multidimensional scattered data. *Numerische Mathematik*, 65(2): 219–243, June 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Shaw:1996:DGM

[SW96] S. Shaw and J. R. Whiteman. Discontinuous Galerkin method with a posteriori $L_p(0, t_i)$ error estimate for second-kind Volterra problems. *Numerische Mathematik*, 74(3):361–383, September 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074003/60740361.htm; http://science.springer.de/nmee/bibs/6074003/60740361.htm`.

Sloan:1998:QME

[SW98] Ian H. Sloan and W. L. Wendland. Qualocation methods for elliptic boundary integral equations. *Numerische Mathematik*, 79(3):451–483, May 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079003/80790451.htm; http://science.springer.de/nmee/bibs/8079003/80790451.htm`.

Sloan:1999:SQM

[SW99a] Ian H. Sloan and Wolfgang L. Wendland. Spline qualocation methods for variable-coefficient elliptic equations on curves. *Numerische Mathematik*, 83 (3):497–533, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830497.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830497.pdf`.

Stoer:1999:API

[SW99b] Josef Stoer and Martin Wechs. On the analyticity properties of infeasible-interior-point paths for monotone linear complementarity problems. *Numerische Mathematik*, 81(4):631–645,

February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810631.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810631.pdf.

Strehmel:1991:ORR

[SWB91] Karl Strehmel, Rüdiger Weiner, and Mario Büttner. Order results for Rosenbrock type methods on classes of stiff equations. *Numerische Mathematik*, 59(7): 723–737, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sweet:1984:FTO

[Swe84] D. R. Sweet. Fast Toeplitz orthogonalization. *Numerische Mathematik*, 43(1):1–21, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Sweet:1991:FBT

[Swe91] D. R. Sweet. Fast block Toeplitz orthogonalization. *Numerische Mathematik*, 58(6): 613–629, January 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Symm:1966:IEM

[Sym66] George T. Symm. An integral equation method in conformal mapping. *Numerische Mathematik*, 9(3):250–258, December 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Symm:1967:NME

[Sym67] George T. Symm. Numerical mapping of exterior domains. *Numerische Mathematik*, 10(5): 437–445, November 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Symm:1969:CMD

[Sym69] George T. Symm. Conformal mapping of doubly-connected domains. *Numerische Mathematik*, 13(5):448–457, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Salzer:1961:SEBb

[SZ61] Herbert E. Salzer and R. Zurmühl. Some extensions of Bairstow's method. *Numerische Mathematik*, 3(1):320, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=320.

Stewart:1991:EGM

[SZ91a] G. W. Stewart and G. Zhang. Eigenvalues of graded matrices and the condition numbers of a multiple eigenvalue. *Numerische Mathematik*, 58(7):

703–712, February 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Stewart:1991:DMS

[SZ91b] G. W. Stewart and G. Zhang. On a direct method for the solution of nearly uncoupled Markov chains. *Numerische Mathematik*, 59(1):1–11, April 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tanabe:1971:PMS

[Tan71] Kunio Tanabe. Projection method for solving a singular system of linear equations and its applications. *Numerische Mathematik*, 17(3): 203–214, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tanabe:1974:CLS

[Tan74] Kunio Tanabe. Characterization of linear stationary iterative processes for solving a singular system of linear equations. *Numerische Mathematik*, 22(5): 349–359, October 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tang:1992:SNS

[Tan92] Tao Tang. Superconvergence of numerical solutions to weakly singular Volterra integro-differential equations. *Numerische Mathematik*, 61(3): 373–382, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tao:1984:ACD

[Tao84] Pham Dinh Tao. Algorithmes de calcul du maximum des formes quadratiques sur la boule unité de la norme du maximum. (French) [Some methods for computing the maximum of quadratic forms on the unit ball of the maximum norm]. *Numerische Mathematik*, 45(3): 377–401, December 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Taubert:1976:DST

[Tau76] K. Taubert. Differenzverfahren für Schwingungen mit trockener und zäher Reibung und für Regelungssysteme. (German) [A finite difference method in forced vibrations with combined viscous and Coulomb damping and in feedback control systems]. *Numerische Mathematik*, 26(4):379–395, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Taylor:1969:AFH

[Tay69a] G. D. Taylor. Approximation by functions having restricted ranges: Equality case. *Numerische Mathematik*, 14(1):71–78, December 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Taylor:1969:GSR

[Tay69b] P. J. Taylor. A generalisation of systematic relaxation methods for consistently ordered matrices. *Numerische Mathematik*, 13 (5):377–395, October 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tee:1964:ACM

[Tee64] G. J. Tee. An application of p-cyclic matrices, for solving periodic parabolic problems. *Numerische Mathematik*, 6(1):142–159, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Temme:1983:NCC

[Tem83] N. M. Temme. The numerical computation of the confluent hypergeometric function $U(a, b, z)$. *Numerische Mathematik*, 41(1):63–82, April 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Thatcher:1976:UIG

[Tha76] R. W. Thatcher. The use of infinite grid refinements at singularities in the solution of Laplace's equation. *Numerische Mathematik*, 25(2):163–178, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Thakur:1990:DAO

[Tha90] Lakshman S. Thakur. A direct algorithm for optimal quadratic splines. *Numerische Mathematik*, 57(4):313–332, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Thomee:1971:CNP

[Tho71] Vidar Thomée. Convergence near plane boundaries of some elliptic difference schemes. *Numerische Mathematik*, 17(1):45–53, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Thomas:1975:ASO

[Tho75] K. S. Thomas. On the approximate solution of operator equations. *Numerische Mathematik*, 23(3):231–239, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Thomann:1990:RSF

[Tho90] Jean Thomann. Resommation des series formelles. solutions d'équations différentielles linéaires ordinaires du second ordre dans le champ complexe au voisinage de singularités irrégulières. (French) [Resummation of formal power series. solutions of second-order linear complex ordinary differential equations near irregular singularities]. *Numerische Mathematik*, 58(5):503–535, December 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsuda:1967:MKP

[TIK67] Takao Tsuda, Kozo Ichida, and Takeshi Kiyono. Monte Carlo path-integral calculations for two-point boundary-value problems. *Numerische Mathematik*, 10(2):110–116, July 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Timlake:1965:EP

[Tim65] W. P. Timlake. An extension of the Σ^2 procedure. *Numerische Mathematik*, 7(3):261–268, June 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tissier:1972:IPV

[Tis72] Gilles Tissier. Interpolation à plusieurs variables sur la sphère. (French) [Interpolation with several variables on the sphere]. *Numerische Mathematik*, 19(2):136–145, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsuda:1964:AMC

[TK64] T. Tsuda and T. Kiyono. Application of the Monte Carlo method to systems of nonlinear algebraic equations. *Numerische Mathematik*, 6(1):59–67, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tobiska:1991:MSD

[TL91] Lutz Tobiska and Gert Lube. A modified streamline diffusion method for solving the stationary Navier–Stokes equation. *Numerische Mathematik*, 59(1): 13–29, April 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Takahasi:1973:QFO

[TM73] Hidetosi Takahasi and Masatake Mori. Quadrature formulas obtained by variable transformation. *Numerische Mathematik*, 21(3):206–219, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

terMaten:1986:CAH

[tMS86] E. Jan W. ter Maten and Gerard L. G. Sleijpen. A convergence analysis of hopscotch methods for fourth order parabolic equations. *Numerische Mathematik*, 49(2/3):275–290, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Todd:1965:SIG

[Tod65] John Todd. On smallest isolated Gerschgorin disks for eigenvalues. *Numerische Mathematik*, 7 (2):170–175, April 1965. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Todd:1988:MLM

[Tod88] John Todd. The many limits of mixed means. II. the Carlson sequences. *Numerische Mathematik*, 54(1):1–18, October 1988. CODEN NUMMA7.

ISSN 0029-599X (print), 0945-3245 (electronic).

Todd:1990:WMP

[Tod90] John Todd. The Weierstrass mean. I. the periods of $\wp(z|e_1, e_2, e_3)$. *Numerische Mathematik*, 57(8):737–746, August 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tomarelli:1984:RTO

[Tom84] Franco Tomarelli. Regularity theorems and optimal error estimates for linear parabolic Cauchy problems. *Numerische Mathematik*, 45(1):23–50, October 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tornig:1963:DRN

[Tör63] Willi Törnig. Über Differenzverfahren in Rechteckgittern zur numerischen Lösung quasilinearer hyperbolischer Differentialgleichungen. (German) [On the difference method in rectangular grid for the numerical solution of quasilinear hyperbolic differential equations]. *Numerische Mathematik*, 5(1):353–370, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Torelli:1991:SCG

[Tor91] Lucio Torelli. A sufficient condition for GPN-stability for delay differential equations. *Numerische Mathematik*, 59(3): 311–320, June 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Torrens:1997:EAP

[Tor97] Juan José Torrens. Sur l'erreur d'approximation par éléments finis en utilisant la méthode des plaquettes splines. (French) [On the finite element approximation error using the "plaquette splines" method]. *Numerische Mathematik*, 76(1): 69–85, March 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076001/70760069.htm; http://science.springer.de/nmee/bibs/7076001/70760069.htm`.

Tourin:1992:CTP

[Tou92] Agnès Tourin. A comparison theorem for a piecewise Lipschitz continuous Hamiltonian and application to shape-from-shading problems. *Numerische Mathematik*, 62(1):75–85, June 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

teRiele:1991:NLB

[tR91] H. J. J. te Riele. A new lower bound for the de Bruijn-Newman constant. *Numerische Mathematik*, 58(6): 661–667, January 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Treuenfels:1962:SLR

[Tre62] P. Treuenfels. Schranken für Lösungen von Randwertaufgaben. (German) [Bounds for solution of boundary value problems]. *Numerische Mathematik*, 4:21–23, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Trefethen:1981:RCA

[Tre81] Lloyd N. Trefethen. Rational Chebyshev approximation on the unit disk. *Numerische Mathematik*, 37(2):297–320, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Troch:1971:ISR

[Tro71] Inge Troch. Über die Stabilität der Ruhelage bei Differentialgleichungen mit quasihomogenen rechten Seiten. (German) [On the steady-state stability of differential equations with quasi-homogeneous right sides]. *Numerische Mathematik*, 18(3):204–212, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Trottenberg:1976:LLG

[Tro76] Ulrich Trottenberg. Lösung linearer gewönlicher Randwertaufgaben 4. Ordnung mit Hilfe von Aufspaltungen. (German) [Solving linear ordinary boundary value problems of the fourth order by means of splittings]. *Numerische Mathematik*, 25(3): 297–306, September 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Trojan:1986:OTS

[Tro86] G. M. Trojan. Optimal transformations for scalar sequences. *Numerische Mathematik*, 48(1): 21–32, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Trouve:1990:CME

[Tro90] P. Trouvé. Sur la convergence des méthodes d'éléments finis nonconformes pour des problèmes linéaires de coques minces. (French) [On the convergence of nonconformal finite-element methods for linear thin-shell problems]. *Numerische Mathematik*, 57(5): 481–524, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tourigny:1991:FEM

[TS91] Y. Tourigny and E. Süli. The finite element method with nodes moving along the characteristics for convection-diffusion equations. *Numerische Mathematik*, 59(4):399–412, July 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tong:1998:IMS

[TS98] Zhanye Tong and Ahmed Sameh. On an iterative method

for saddle point problems. *Numerische Mathematik*, 79(4): 643–646, June 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8079004/80790643.htm; http://link.springer.de/link/service/journals/00211/papers/8079004/80790643.pdf; http://link.springer.de/link/service/journals/00211/papers/8079004/80790643.ps.gz`.

Tsao:1977:NIE

[Tsa77] Nai-Kuan Tsao. Newton interpolation is efficient for approximation of linear functionals. *Numerische Mathematik*, 29 (1):115–122, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsao:1979:EAS

[Tsa79] Nai-Kuan Tsao. Error analysis of splitting algorithms for polynomials. *Numerische Mathematik*, 32(4):409–421, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsuda:1972:NDF

[Tsu72] Takao Tsuda. Numerical differentiation of functions of very many variables. *Numerische Mathematik*, 18(4):327–335, August 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsuda:1973:NIF

[Tsu73] Takao Tsuda. Numerical integration of functions of very many variables. *Numerische Mathematik*, 20(5):377–391, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsuda:1975:NIF

[Tsu75] Takao Tsuda. Nonlinear interpolation of functions of very many variables. *Numerische Mathematik*, 24(5):395–414, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsuchiya:1988:EPR

[Tsu88] Takuya Tsuchiya. Enlargement procedure for resolution of singularities at simple singular solutions of nonlinear equations. *Numerische Mathematik*, 52(4): 401–411, April 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tsuchiya:1999:AKT

[Tsu99] Takuya Tsuchiya. An application of the Kantorovich theorem to nonlinear finite element analysis. *Numerische Mathematik*, 84(1):121–141, November 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9084001/90840121.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084001/90840121.pdf`.

Thiran:1987:SCA

[TT87] J. P. Thiran and S. Thiry. Strict Chebyshev approximation for general systems of linear equations. *Numerische Mathematik*, 51(6):701–725, November 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Toh:1994:PPP

[TT94] Kim-Chuan Toh and Lloyd N. Trefethen. Pseudozeros of polynomials and pseudospectra of companion matrices. *Numerische Mathematik*, 68(3): 403–425, September 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068003/40680403.htm; http://science.springer.de/nmee/bibs/4068003/40680403.htm`.

Turkel:1978:EMD

[Tur78] Eli Turkel. Extrapolation methods for dynamic partial differential equations. *Numerische Mathematik*, 29(3): 269–285, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tuomela:1998:ADD

[TV98] Jukka Tuomela and Olivier Vacus. Algebraic derivation of discrete absorbing boundary conditions for the wave equation. *Numerische Mathematik*, 80(3):419–459, September 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080003/80800419.htm; http://link.springer.de/link/service/journals/00211/papers/8080003/80800419.pdf; http://link.springer.de/link/service/journals/00211/papers/8080003/80800419.ps.gz`.

Thomee:1968:EDE

[TW68] Vidar Thomée and Bertil Westergren. Elliptic difference equations and interior regularity. *Numerische Mathematik*, 11(3): 196–210, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Thron:1980:ACL

[TW80] W. J. Thron and H. Waadeland. Accelerating convergence of limit periodic continued fractions $K(a_n/1)$. *Numerische Mathematik*, 34(2): 155–170, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Thomee:1983:MNS

[TW83] Vidar Thomée and Lars B. Wahlbin. Maximum-norm stability and error estimates in Galerkin methods for parabolic equations in one space variable. *Numerische Mathematik*, 41(3): 345–371, July 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Tyrtyshnikov:1994:HBH

[Tyr94] Evgenij E. Tyrtyshnikov. How bad are Hankel matrices? *Numerische Mathematik*, 67(2): 261–269, March 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067002/40670261.htm; http://science.springer.de/nmee/bibs/4067002/40670261.htm`.

Uhlmann:1962:UFD

[Uhl62] W. Uhlmann. Über den Fehler bei Differenzenverfahren für die Poissonsche Differentialgleichung. (German) [On the bound of difference method for Poisson differential equation]. *Numerische Mathematik*, 4:226–237, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Uhlig:1992:CPW

[Uhl92] Frank Uhlig. Are the coefficients of a polynomial well-conditioned functions of its roots? *Numerische Mathematik*, 61(3): 383–393, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Uhlig:1997:ABT

[Uhl97] Frank Uhlig. The *DQR* algorithm, basic theory, convergence, and conditional stability. *Numerische Mathematik*, 76(4): 515–553, June 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076004/70760515.htm; http://science.springer.de/nmee/bibs/7076004/70760515.htm`.

Urabe:1967:NSM

[Ura67] Minoru Urabe. Numerical solution of multi-point boundary value problems in Chebyshev series. theory of the method. *Numerische Mathematik*, 9(4):341–366, February 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Urabe:1970:IOS

[Ura70] Minoru Urabe. An implicit one-step method of high-order accuracy for the numerical integration of ordinary differential equations. *Numerische Mathematik*, 15(2):151–164, June 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Utreras:1983:NSF

[Utr83] Florencio Utreras. Natural spline functions, their associated eigenvalue problem. *Numerische Mathematik*, 42(1): 107–117, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Utreras:1985:SND

[Utr85] Florencio I. Utreras. Smoothing noisy data under monotonicity constraint: existence, characterization and convergence rates.

Numerische Mathematik, 47(4): 611–625, December 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VanderCruyssen:1979:ROA

[Van79] P. Van der Cruyssen. A reformulation of Olver's algorithm for the numerical solution of second-order linear difference equations. *Numerische Mathematik*, 32(2):159–166, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VanderCruyssen:1981:CFA

[Van81] P. Van der Cruyssen. A continued fraction algorithm. *Numerische Mathematik*, 37(1): 149–156, May 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VandeVel:1982:HCM

[Van82] H. Van de Vel. The Haar condition and multiplicity of zeros. *Numerische Mathematik*, 39 (1):139–153, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VanLoan:1985:CGS

[Van85] Charles F. Van Loan. Computing the CS and the Generalized singular value decompositions. *Numerische Mathematik*, 46(4): 479–491, August 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VanIseghem:1994:CVS

[Van94] Jeannette Van Iseghem. Convergence of vectorial sequences. applications. *Numerische Mathematik*, 68(4):549–562, October 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068004/40680549.htm; http://science.springer.de/nmee/bibs/4068004/40680549.htm`.

Varga:1964:SIG

[Var64] R. S. Varga. On smallest isolated Gerschgorin disks for eigenvalues. *Numerische Mathematik*, 6(1):366–376, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vasilopoulos:1988:DHO

[Vas88] D. Vasilopoulos. On the determination of higher order terms of singular elastic stress fields near corners. *Numerische Mathematik*, 53(1/2):51–95, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VanBarel:1992:NFA

[VB92a] Marc Van Barel and Adhemar Bultheel. A new formal approach to the rational interpolation problem. *Numerische Mathematik*, 62(1):87–122, June 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VanBarel:1992:PAD

[VB92b] Marc Van Barel and Adhemar Bultheel. A parallel algorithm for discrete least squares rational approximation. *Numerische Mathematik*, 63(1):99–121, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Varga:1981:FM

[VC81] Richard S. Varga and Da Yong Cai. On the LU factorization of M-matrices. *Numerische Mathematik*, 38(2):179–192, December 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verlinden:1992:CFD

[VC92a] Pierre Verlinden and Ronald Cools. On cubature formulae of degree $4k + 1$ attaining Möller's lower bound for integrals with circular symmetry. *Numerische Mathematik*, 61(3): 395–407, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verschelde:1992:NRS

[VC92b] Jan Verschelde and Ronald Cools. Nonlinear reduction for solving deficient polynomial systems by continuation methods. *Numerische Mathematik*, 63(2): 263–282, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Varga:1994:AZP

[VC94] Richard S. Varga and Amos J. Carpenter. Asymptotics for the zeros and poles of normalized Padé approximants to e^z. *Numerische Mathematik*, 68(1): 169–185, June 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068001/40680169.htm; http://science.springer.de/nmee/bibs/4068001/40680169.htm`.

vanDooren:1973:NCF

[vD73] René van Dooren. Numerical computation of forced oscillations in coupled Duffing equations. *Numerische Mathematik*, 20(4):300–311, August 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VandenBerghe:1991:ACH

[VD91] G. Vanden Berghe and H. De Meyer. Accurate computation of higher Sturm–Liouville eigenvalues. *Numerische Mathematik*, 59(3):243–254, June 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vandeGriend:1986:AMR

[vdGK86] J. A. van de Griend and J. F. B. M. Kraaijevanger. Absolute monotonicity of rational functions occurring in the numerical solution of initial value problems. *Numerische Mathematik*,

49(4):413–424, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderHouwen:1972:ERF

[vdH72] P. J. van der Houwen. Explicit Runge–Kutta formulas with increased stability boundaries. *Numerische Mathematik*, 20(2):149–164, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderHouwen:1981:BDT

[vdHtR81] P. J. van der Houwen and H. J. J. te Riele. Backward differentiation type formulas for Volterra integral equations of the second kind. *Numerische Mathematik*, 37(2): 205–217, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderSluis:1969:CNE

[vdS69] A. van der Sluis. Condition numbers and equilibration of matrices. *Numerische Mathematik*, 14(1):14–23, December 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderSluis:1970:CEP

[vdS70a] A. van der Sluis. Condition, equilibration and pivoting in linear algebraic systems. *Numerische Mathematik*, 15(1): 74–86, May 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderSluis:1970:SSL

[vdS70b] A. van der Sluis. Stability of solutions of linear algebraic systems. *Numerische Mathematik*, 14(3):246–251, February 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderSluis:1970:URP

[vdS70c] A. van der Sluis. Upperbounds for roots of polynomials. *Numerische Mathematik*, 15 (3):250–262, July 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderSluis:1972:RTQ

[vdS72] A. van der Sluis. The remainder term in quadrature formulae. *Numerische Mathematik*, 19 (1):49–55, February 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderSluis:1975:SSL

[vdS75] A. van der Sluis. Stability of the solutions of linear least squares problems. *Numerische Mathematik*, 23(3):241–254, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanderSluis:1986:RCC

[vdSvdV86] A. van der Sluis and H. A. van der Vorst. The rate of convergence of conjugate gradients. *Numerische Mathematik*,

48(5):543–560, May 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veidinger:1960:NDB

[Vei60] L. Veidinger. On the numerical determination of the best approximations in the Chebyshev sense. *Numerische Mathematik*, 2(1):99–105, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verner:1969:OSI

[Ver69] J. H. Verner. The order of some implicit Runge–Kutta methods. *Numerische Mathematik*, 13(1): 14–23, March 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verwer:1977:GLM

[Ver77a] J. G. Verwer. On generalized linear multistep methods with zero-parasitic roots and an adaptive principal root. *Numerische Mathematik*, 27(2): 143–155, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verwer:1977:SPG

[Ver77b] J. G. Verwer. S-stability properties for generalized Runge–Kutta methods. *Numerische Mathematik*, 27(4):359–370, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verwer:1984:CLO

[Ver84] J. G. Verwer. Contractivity of locally one-dimensional splitting methods. *Numerische Mathematik*, 44(2):247–259, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verfurth:1987:FEA

[Ver87a] Rüdiger Verfürth. Finite element approximation of incompressible Navier–Stokes equations with slip boundary condition. *Numerische Mathematik*, 50(6):697–721, April 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verfurth:1987:MFE

[Ver87b] Rüdiger Verfürth. Mixed finite element approximation of the vector potential. *Numerische Mathematik*, 50(6): 685–695, April 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vermiglio:1988:NCE

[Ver88] R. Vermiglio. Natural continuous extensions of Runge–Kutta methods for Volterra integrodifferential equations. *Numerische Mathematik*, 53(4):439–458, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verfurth:1989:PEE

[Ver89] R. Verfürth. A posteriori error estimators for the Stokes equations. *Numerische Mathematik*,

55(3):309–325, June 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verfurth:1991:FEA

[Ver91a] R. Verfürth. Finite element approximation of incompressible Navier–Stokes equations with slip boundary condition. II. *Numerische Mathematik*, 59(6): 615–636, September 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verfurth:1991:PEE

[Ver91b] R. Verfürth. A posteriori error estimators for the Stokes equations. II. non-conforming discretizations. *Numerische Mathematik*, 60(2):235–249, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vermiglio:1992:SRK

[Ver92] R. Vermiglio. On the stability of Runge–Kutta methods for delay integral equations. *Numerische Mathematik*, 61(4): 561–577, May 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verfurth:1998:PEE

[Ver98a] R. Verfürth. A posteriori error estimators for convection-diffusion equations. *Numerische Mathematik*, 80(4):641–663, October 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080004/80800641.htm; http://link.springer.de/link/service/journals/00211/papers/8080004/80800641.pdf`.

Verfurth:1998:RPE

[Ver98b] R. Verfürth. Robust a posteriori error estimators for a singularly perturbed reaction-diffusion equation. *Numerische Mathematik*, 78(3):479–493, January 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078003/70780479.htm; http://science.springer.de/nmee/bibs/7078003/70780479.htm`.

Veselic:1976:CJM

[Ves76a] K. Veselić. A convergent Jacobi method for solving the eigenproblem of arbitrary real matrices. *Numerische Mathematik*, 25 (2):179–184, June 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veselic:1976:SCJ

[Ves76b] K. Veselić. Some convergent Jacobi-like procedures for diagonalising J-symmetric matrices. *Numerische Mathematik*, 27(1): 67–75, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veselic:1979:CJL

[Ves79a] K. Veselić. On a class of Jacobi-like procedures for diagonalizing arbitrary real matrices. *Numerische Mathematik*, 33 (2):157–172, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veselic:1979:NCE

[Ves79b] K. Veselić. On a new class of elementary matrices. *Numerische Mathematik*, 33(2): 173–180, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veselic:1993:JEA

[Ves93] K. Veselić. A Jacobi eigenreduction algorithm for definite matrix pairs. *Numerische Mathematik*, 64(2):241–269, February 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veselic:1999:NPS

[Ves99] K. Veselić. A note on the pivoted symmetric LR iteration. *Numerische Mathematik*, 83(4):699–702, October 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9083004/90830699.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9083004/90830699.pdf`.

vonFinckenstein:1970:PWM

[vF70] Karl Graf Finck von Finckenstein. Potenzbeschränktheit und Wertebereich einer Matrix. (German) [Potency limitation and ranges of a matrix]. *Numerische Mathematik*, 15(4): 329–332, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vonFinckenstein:1973:KDQ

[vFvH73] Karl Graf Finck von Finckenstein and Karl-Ulrich von Hagenow. Konvergenz eines Differenzenverfahrens für quasilineare parabolische Anfangs-Randwertprobleme in Zylindersymmetrie. (German) [Convergence of a difference method for quasilinear parabolic initial-boundary value problems in cylindrical symmetry]. *Numerische Mathematik*, 20(5): 372–376, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Golitschek:1972:CIP

[vG72] M. v. Golitschek. On the convergence of interpolating periodic spline functions of high degree. *Numerische Mathematik*, 19(2):146–154, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vonGolitschek:1980:ASM

[vG80] Manfred von Golitschek. An algorithm for scaling matrices

and computing the minimum cycle mean in a digraph. *Numerische Mathematik*, 35(1):45–55, March 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vonGolitschek:1982:OCD

[vG82] M. von Golitschek. Optimal cycles in double weighted graphs and approximation of bivariate functions by univariate ones. *Numerische Mathematik*, 39(1): 65–84, June 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vrscay:1988:EFP

[VG88] Edward R. Vrscay and William J. Gilbert. Extraneous fixed points, basin boundaries and chaotic dynamics for Schröder and König rational iteration functions. *Numerische Mathematik*, 52(1):1–16, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vonGolitschek:1984:ASP

[vGS84] M. von Golitschek and H. Schneider. Applications of shortest path algorithms to matrix scalings. *Numerische Mathematik*, 44(1):111–126, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veselic:1989:NOS

[VH89] K. Veselić and V. Hari. A note on a one-sided Jacobi algorithm. *Numerische Mathematik*, 56(6): 627–633, December 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verlinden:1993:EEC

[VH93] Pierre Verlinden and Ann Haegemans. An error expansion for cubature with an integrand with homogeneous boundary singularities. *Numerische Mathematik*, 65(3):383–406, July 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verwer:1990:CPR

[VHS90] J. G. Verwer, W. H. Hundsdorfer, and B. P. Sommeijer. Convergence properties of the Runge–Kutta–Chebyshev method. *Numerische Mathematik*, 57(2):157–178, April 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanIseghem:1984:PTA

[vI84] Jeannette van Iseghem. Padé-type approximations of $\exp(-z)$ whose denominators are $(1 + z/n)^n$. *Numerische Mathematik*, 43(2):283–292, March 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vrahatis:1986:RGM

[VI86] M. N. Vrahatis and K. I. Iordanidis. A rapid generalized method of bisection for solving systems of non-linear equations. *Numerische Mathematik*,

49(2/3):123–138, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vitek:1975:BCP

[Vit75] Yehoshua Vitek. A bound connected with primitive matrices. *Numerische Mathematik*, 23(3): 255–260, June 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kempen:1966:CCJ

[vK66a] H. P. M. van Kempen. On the convergence of the classical Jacobi method for real symmetric matrices with non-distinct eigenvalues. *Numerische Mathematik*, 9(1):11–18, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Kempen:1966:QCS

[vK66b] H. P. M. van Kempen. On the quadratic convergence of the special cyclic Jacobi method. *Numerische Mathematik*, 9(1): 19–22, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Varga:1973:MGS

[VL73] Richard S. Varga and Bernard W. Levinger. On minimal Gerschgorin sets for families of norms. *Numerische Mathematik*, 20(3):252–256, June 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VandeVelde:1992:ADD

[VL92] Eric F. Van de Velde and Jens Lorenz. Adaptive data distribution for concurrent continuation. *Numerische Mathematik*, 62(2):269–294, July 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Varga:1993:ADI

[VN93] Richard S. Varga and Reinhard Nabben. An algorithm for determining if the inverse of a strictly diagonally dominant Stieltjes matrix is strictly ultrametric. *Numerische Mathematik*, 65(4):493–501, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vogelius:1983:AVF

[Vog83a] Michael Vogelius. An analysis of the p-version of the finite element method for nearly incompressible materials. uniformly valid, optimal error estimates. *Numerische Mathematik*, 41(1):39–53, April 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vogelius:1983:RID

[Vog83b] Michael Vogelius. A right-inverse for the divergence operator in spaces of piecewise polynomials. application to the p-version of the finite element method. *Numerische Mathematik*, 41(1):19–37, April 1983.

CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Voigt:1974:LMA

[Voi74] A. Voigt. Line method approximations to the Cauchy problem for nonlinear parabolic differential equations. *Numerische Mathematik*, 23(1):23–36, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Voigt:1979:MLN

[Voi79] Alexander Voigt. The method of lines for nonlinear parabolic differential equations with mixed derivatives. *Numerische Mathematik*, 32(2):197–207, June 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Volk:1986:GSL

[Vol86] Wolfgang Volk. Globale Superkonvergenz bei der Lösung von linearen Randwertaufgaben. (German) [Global superconvergence in the solution of linear boundary value problems]. *Numerische Mathematik*, 48(6):617–625, June 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Voss:1975:PRN

[Vos75] H. Voss. Projectionsverfahren für Randwertaufgaben mit nichtlinearen Randbedingungen. (German) [Projection methods for boundary value problems with nonlinear boundary conditions]. *Numerische Mathematik*, 24(4):317–329, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vonPetersdorff:1990:CMM

[vPS90] T. von Petersdorff and E. P. Stephan. On the convergence of the multigrid method for a hypersingular integral equation of the first kind. *Numerische Mathematik*, 57(4):379–391, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vonPetersdorff:1996:WAF

[vPS96] Tobias von Petersdorff and Christoph Schwab. Wavelet approximations for first kind boundary integral equations on polygons. *Numerische Mathematik*, 74(4):479–516, October 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6074004/60740479.htm; http://science.springer.de/nmee/bibs/6074004/60740479.htm`.

vonSydow:1977:EEG

[vS77] Björn von Sydow. Error estimates for Gaussian quadrature formulae. *Numerische Mathematik*, 29(1):59–64, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vuik:1990:EEA

[Vui90] C. Vuik. An L^2-error estimate for an approximation of the solution of a parabolic variational inequality. *Numerische Mathematik*, 57(5):453–471, June 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanVeldhuizen:1976:RPC

[vV76] M. van Veldhuizen. A refinement process for collocation approximations. *Numerische Mathematik*, 26(4): 397–407, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanVeldhuizen:1977:NPP

[vV77] M. van Veldhuizen. A note on partial pivoting and Gaussian elimination. *Numerische Mathematik*, 29(1):1–10, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanVeldhuizen:1978:HOM

[vV78] M. van Veldhuizen. Higher order methods for a singularly perturbed problem. *Numerische Mathematik*, 30(3): 267–279, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanVeldhuizen:1983:SS

[vV83] M. van Veldhuizen. On D-stability and B-stability. *Numerische Mathematik*, 42(3): 349–357, December 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vanninathan:1984:ATP

[VV84] M. Vanninathan and G. D. Veerappa Gowda. Approximation of Tricomi problem with Neumann boundary condition. *Numerische Mathematik*, 44(3): 371–391, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verdi:1988:EES

[VV88] Claudio Verdi and Augusto Visintin. Error estimates for a semi-explicit numerical scheme for Stefan-type problems. *Numerische Mathematik*, 52(2): 165–185, January 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

VanHuffel:1989:ACB

[VV89] Sabine Van Huffel and Joos Vandewalle. Algebraic connections between the least squares and total least squares problems. *Numerische Mathematik*, 55(4):431–449, July 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Verdiere:1998:NTS

[VV98] S. Verdière and M. H. Vignal. Numerical and theoretical study of a Dual Mesh Method

using finite volume schemes for two phase flow problems in porous media. *Numerische Mathematik*, 80(4):601–639, October 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080004/80800601.htm; http://link.springer.de/link/service/journals/00211/papers/8080004/80800601.pdf`.

vonWelck:1977:SSA

[vW77a] U. von Welck. Ein stabiles Schichtenverfahren für allgemeine lineare Evolutionsgleichungen. (German) [A stable line method for general linear evolution equations]. *Numerische Mathematik*, 27(2): 171–178, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vonWelck:1977:SMP

[vW77b] U. von Welck. Stabile Merhschichtverfahren für parabolische Evolutionsgleichungen. (German) [Stable multi-line methods for evolution equations of parabolic type]. *Numerische Mathematik*, 29(1): 65–82, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Veselic:1979:QCJ

[VW79] K. Veselić and H. J. Wenzel. A quadratically convergent Jacobi-like method for real matrices with complex eigenvalues. *Numerische Mathematik*, 33(4): 425–435, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Vassilevski:1992:MIM

[VW92] Panayot S. Vassilevski and Junping Wang. Multilevel iterative methods for mixed finite element discretizations of elliptic problems. *Numerische Mathematik*, 63(4):503–520, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

vanWijngaarden:1969:RALa

[vWMPK69] A. van Wijngaarden, B. J. Mailloux, J. E. L. Peck, and C. H. A. Koster. Report on the algorithmic language ALGOL 68. *Numerische Mathematik*, 14(2):79–218, December 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.fh-jena.de/~kleine/history/languages/Algol68-Report.pdf; http://www.fh-jena.de/~kleine/history/languages/Algol68-RevisedReport.pdf`.

Vanmaele:1995:CEN

[VŽ95] Michèle Vanmaele and Alexander Ženíšek. The combined effect of numerical integration and approximation of the boundary in the finite element method for eigenvalue problems. *Numerische Mathematik*, 71(2):

253–273, August 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5071002/50710253.htm; http://science.springer.de/nmee/bibs/5071002/50710253.htm.

Weiss:1972:PIM

[WA72] R. Weiss and R. S. Anderssen. A product integration method for a class of singular first kind Volterra equations. *Numerische Mathematik*, 18(5):442–456, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wagenfuhrer:1976:VHK

[Wag76] E. Wagenführer. Ein Verfahren höherer Konvergenzordnung zur Berechnung des charakteristischen Exponenten der Mathieuschen Differentialgleichung. (German) [A method of high order convergence for calculating the characteristic exponent of Mathieu's differential equation]. *Numerische Mathematik*, 27(1):53–65, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wagenfuhrer:1980:DBC

[Wag80] E. Wagenführer. Die Determinantenmethode zur Berechnung des charakteristischen Exponenten der endlichen Hillschen Differentialgleichung. (German) [On the determinantal method for calculating the characteristic exponent of the finite Hill differential equation]. *Numerische Mathematik*, 35(4):405–420, November 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wagatha:1983:APO

[Wag83a] Ludwig Wagatha. Approximation of pseudodifferential operators in absorbing boundary conditions for hyperbolic equations. *Numerische Mathematik*, 42(1):51–64, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wagenfuhrer:1983:CEF

[Wag83b] Ekkehard Wagenführer. On calculating the eigenvalues of the finite Hill's differential equation. *Numerische Mathematik*, 41(2):255–279, June 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wagner:1997:TFFa

[Wag97a] Christian Wagner. Tangential frequency filtering decompositions for symmetric matrices. *Numerische Mathematik*, 78(1):119–142, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7078001/70780119.htm; http://science.springer.de/nmee/bibs/7078001/70780119.htm.

Wagner:1997:TFFb

[Wag97b] Christian Wagner. Tangential frequency filtering decompositions for unsymmetric matrices. *Numerische Mathematik*, 78(1):143–163, November 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078001/70780143.htm; http://science.springer.de/nmee/bibs/7078001/70780143.htm`.

Wahba:1975:SND

[Wah75a] Grace Wahba. Smoothing noisy data with spline functions. *Numerische Mathematik*, 24(5): 383–393, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wahlbin:1975:EEG

[Wah75b] Lars Wahlbin. Error estimates for a Galerkin method for a class of model equations for long waves. *Numerische Mathematik*, 23(4):289–303, August 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Walter:1967:BIL

[Wal67] Wolfgang Walter. Bemerkungen zu Iterationsverfahren bei linearen Gleichungssystemen. (German) [Remark on iteration method for linear equation systems]. *Numerische Mathematik*, 10(1):80–85, May 1967. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Walter:1968:LNP

[Wal68] Wolfgang Walter. Die Linienmethode bei nichtlinearen parabolischen Differentialgleichungen. (German) [The line method for nonlinear parabolic differential equations]. *Numerische Mathematik*, 12(4): 307–321, November 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Walz:1989:CIR

[Wal89] Guido Walz. A contour integral representation of linear extrapolation methods. *Numerische Mathematik*, 55(4): 477–480, July 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Walz:1991:AEA

[Wal91] Guido Walz. Asymptotic expansions and acceleration of convergence for higher order iteration processes. *Numerische Mathematik*, 59(5):529–540, August 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Waldron:1997:IEF

[Wal97] Shayne Waldron. Integral error formulae for the scale of mean value interpolations which includes Kergin and

Hakopian interpolation. *Numerische Mathematik*, 77(1): 105–122, July 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077001/70770105.htm; http://science.springer.de/nmee/bibs/7077001/70770105.htm`.

Waldron:1998:MTF

[Wal98] Shayne Waldron. Multipoint Taylor formulæ. *Numerische Mathematik*, 80(3):461–494, September 1998. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/8080003/80800461.htm; http://link.springer.de/link/service/journals/00211/papers/8080003/80800461.pdf; http://link.springer.de/link/service/journals/00211/papers/8080003/80800461.ps.gz`.

Wampler:1994:ESS

[Wam94] Charles W. Wampler. An efficient start system for multihomogeneous polynomial continuation. *Numerische Mathematik*, 66(4):517–523, January 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wang:1989:AEE

[Wan89] Junping Wang. Asymptotic expansions and L^∞-error estimates for mixed finite element methods for second order elliptic problems. *Numerische Mathematik*, 55(4):401–430, July 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Watt:1968:CCS

[Wat68] J. M. Watt. Consistency, convergence and stability of general discretizations of the initial value problem. *Numerische Mathematik*, 12(1):11–22, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1969:UZI

[WB69] H. Werner and Dietrich Braess. Über den Zusammenhang von Interpolation und diskreter T-Approximation mit rationalen Funktionen. (German) [On the coherence of interpolation and discrete T approximation with rational functions]. *Numerische Mathematik*, 13(2): 112–128, May 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weber:1979:NBV

[Web79] Helmut Weber. Numerische Behandlung von Verzweigungsproblemen bei gewöhnlichen Differentialgleichungen. (German) [Numerical treatment of bifurcation problems for ordinary differential equations]. *Numerische Mathematik*, 32(1): 17–29, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weber:1981:NCF

[Web81] H. Weber. Numerical computation of the Fourier transform using Laguerre functions and the fast Fourier transform. *Numerische Mathematik*, 36(2): 197–209, April 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weba:1991:IRF

[Web91] Michael Weba. Interpolation of random functions. *Numerische Mathematik*, 59(7):739–746, October 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weber:1994:MMP

[Web94] Hermann Weber. A multigrid method for a Petrov–Galerkin discretization of the Stokes equations. *Numerische Mathematik*, 66(4):525–541, January 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Chu:1986:GBF

[wEC86] King wah Eric Chu. Generalization of the Bauer–Fike Theorem. *Numerische Mathematik*, 49(6):685–691, November 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wegmann:1978:IKA

[Weg78] Rudolf Wegmann. Ein Iterationsverfahren zur konformen Abbildung. (German) [An iterative method in conformal mapping]. *Numerische Mathematik*, 30(4):453–466, December 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wegmann:1984:CPE

[Weg84] Rudolf Wegmann. Convergence proofs and error estimates for an iterative method for conformal mapping. *Numerische Mathematik*, 44(3):435–461, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wegmann:1989:CMM

[Weg89] Rudolf Wegmann. Conformal mapping by the method of alternating projections. *Numerische Mathematik*, 56(2/3): 291–307, October 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weisfeld:1959:OPS

[Wei59] M. Weisfeld. Orthogonal polynomials in several variables. *Numerische Mathematik*, 1:38–40, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weinstein:1963:SLT

[Wei63] Alexander Weinstein. On the Sturm–Liouville theory and the eigenvalues of intermediate problems. *Numerische Mathematik*, 5(1):238–245, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weinitschke:1964:UKI

[Wei64] H. J. Weinitschke. Über eine Klasse von Iterationsverfahren. (German) [On a class of iteration methods]. *Numerische Mathematik*, 6(1):395–404, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weisel:1980:NEQ

[Wei80] Jutta Weisel. Numerische Ermittlung quasikonformer Abbildungen mit finiten Elementen. (German) [Numerical determination of quasiconformal mappings by finite elements]. *Numerische Mathematik*, 35(2): 201–222, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wei:1992:ARB

[Wei92a] Mu Sheng Wei. Algebraic relations between the total least squares and least squares problems with more than one solution. *Numerische Mathematik*, 62(1):123–148, June 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Weideman:1992:EHR

[Wei92b] J. A. C. Weideman. The eigenvalues of Hermite and rational spectral differentiation matrices. *Numerische Mathematik*, 61(3): 409–432, April 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wei:1995:UBS

[Wei95] Musheng Wei. Upper bound and stability of scaled pseudoinverses. *Numerische Mathematik*, 72(2):285–293, December 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5072002/50720285.htm; http://science.springer.de/nmee/bibs/5072002/50720285.htm`.

Wendland:1968:BRI

[Wen68] Wolfgang Wendland. Die Behandlung von Randwertaufgaben im R_3 mit Hilfe von Einfach- und Doppelschichtpotentialen. (German) [The treatment of boundary-value problems in R_3 by simple and double blocking layer potentials]. *Numerische Mathematik*, 11(5): 380–404, June 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1962:SDT

[Wer62] Helmut Werner. Ein Satz über diskete Tschebyscheff-Approximation bei gebrochen linearer Funktionen. (German) [A proposition on the discrete Chebyshev approximation of broken linear functions]. *Numerische Mathematik*, 4:154–157, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1968:NSS

[Wer68] Wolfgang Werner. Numerical

solution of systems of quasilinear hyperbolic differential equations by means of the method of nebencharacteristics in combination with extrapolation methods. *Numerische Mathematik*, 11(2):151–169, February 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1969:ENG

[Wer69] Jochen Werner. Einschließungssaätze bei nichtlinearen gewönlichen Randwertaufgaben und erzwungene Schwingungen. (German) [Enclosure principles for nonlinear ordinary boundary value problems and forced vibrations]. *Numerische Mathematik*, 13(1): 24–38, March 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1972:FRI

[Wer72] Helmut Werner. Eine faktorisierung der bei der rationalen Interpolation auftretenden Matrizen. (German) [A factorization of matrices occurring in rational interpolation]. *Numerische Mathematik*, 18(5): 423–431, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1978:GKV

[Wer78] Jochen Werner. Über die globale Konvergenz von Variable-Metrik-Verfahren mit nichtexakter Schrittweitenbestimmung. (German) [On the global convergence of variable metric algorithms without exact line searches]. *Numerische Mathematik*, 31(3):321–334, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1979:VON

[Wer79] Wilhelm Werner. Über ein Verfahren der Ordnung $1 + \sqrt{2}$ zur Nullstellenbestimmung. (German) [On a method of order $1 + \sqrt{2}$ for determining zeros]. *Numerische Mathematik*, 32(3):333–342, September 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1982:SSR

[Wer82] Wilhelm Werner. Some supplementary results on the $1 + \sqrt{2}$ order method for the solution of nonlinear equations. *Numerische Mathematik*, 38(3): 383–392, March 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1986:MPA

[Wer86] Helmut Werner. Multivariate Padé approximation. *Numerische Mathematik*, 48(4): 429–440, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wesseling:1975:AEP

[Wes75] P. Wesseling. An asymptotic expansion for product integration applied to Cauchy principal value integrals. *Numerische*

Mathematik, 24(5):435–442, October 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wetterling:1960:EKB

[Wet60] W. Wetterling. Zum Einschließungssatz von Kryloff-Bogoliubov für allgemeine Eigenwertaufgaben bei gewöhnlichen Differentialgleichungen. (German) [An enclosure theorem of Kryloff-Bogoliubov for ordinary eigenvalue problems in ordinary differential equations]. *Numerische Mathematik*, 2(1): 18–21, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wetterling:1970:DRE

[Wet70] W. Wetterling. Definitheitsbedingungen für relative Extrema bei Optimierungs- und Approximationsaufgaben. (German) [Definiteness conditions for relative extrema in optimization and approximation problems]. *Numerische Mathematik*, 15(2):122–136, June 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wathen:1995:CRM

[WFS95] Andrew Wathen, Bernd Fischer, and David Silvester. The convergence rate of the minimal residual method for the Stokes problem. *Numerische Mathematik*, 71(1): 121–134, July 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071001/50710121.htm; http://science.springer.de/nmee/bibs/5071001/50710121.htm`.

Werner:1986:LDS

[WH86] Helmut Werner and H. Hilgers. Lösung von Differentialgleichungen mit Splinefunktionen. Eine Störungstheorie. I. Divergenzaussagen. (German) [Solution of differential equations by splines. A perturbation theory. I. statements about divergence]. *Numerische Mathematik*, 48(3): 323–336, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

White:1977:OEP

[Whi77] Bran E. White. On optimal extreme-discrepancy point sets in the square. *Numerische Mathematik*, 27(2): 157–164, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wendland:1988:ABE

[WhY88] W. L. Wendland and De hao Yu. Adaptive boundary element methods for strongly elliptic integral equations. *Numerische Mathematik*, 53(5):539–558, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Widlund:1966:SPD

[Wid66] Olaf B. Widlund. Stability of parabolic difference schemes in the maximum norm. *Numerische Mathematik*, 8(2):186–202, April 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Widlund:1977:BEB

[Wid77] Olof Widlund. On best error bounds for approximation by piecewise polynomial functions. *Numerische Mathematik*, 27(3): 327–338, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1959:EZIa

[Wil59a] J. H. Wilkinson. The evaluation of the zeros of ill-conditioned polynomials. I. *Numerische Mathematik*, 1:150–166, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1959:EZIb

[Wil59b] J. H. Wilkinson. The evaluation of the zeros of ill-conditioned polynomials. II. *Numerische Mathematik*, 1:167–180, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1960:EAF

[Wil60] J. H. Wilkinson. Error analysis of floating-point computation. *Numerische Mathematik*, 2(1):319–340, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `https://link.springer.com/article/10.1007/BF01386233`.

Wilson:1961:DDP

[Wil61] Walter L. Wilson. On discrete Dirichlet and plateau problems. *Numerische Mathematik*, 3(1): 359–373, December 1961. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=359`.

Wilkinson:1962:CESa

[Wil62a] J. H. Wilkinson. Calculation of the eigenvalues of a symmetric tridiagonal matrix by the method of bisection. *Numerische Mathematik*, 4:362–367, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1962:CESb

[Wil62b] J. H. Wilkinson. Calculation of the eigenvectors of a symmetric tridiagonal matrix by inverse iteration. *Numerische Mathematik*, 4:368–376, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1962:HMS

[Wil62c] J. H. Wilkinson. Householder's method for symmetric matrices. *Numerische Mathematik*, 4:354–361, December 1962. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1962:NQC

[Wil62d] J. H. Wilkinson. Note on the quadratic convergence of the cyclic Jacobi process. *Numerische Mathematik*, 4:296–300, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilson:1962:MSS

[Wil62e] Walter L. Wilson, Jr. d-minimal surfaces spanning polygons in E_n by solving a linear system. *Numerische Mathematik*, 4:328–329, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilf:1964:ECN

[Wil64] H. Wilf. Exactness conditions in numerical quadrature. *Numerische Mathematik*, 6(1):315–319, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Willson:1971:UGM

[Wil71] A. N. Willson, Jr. A useful generalization of the P_0 matrix concept. *Numerische Mathematik*, 17(1):62–70, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1972:NMV

[Wil72] J. H. Wilkinson. Note on matrices with a very ill-conditioned eigenproblem. *Numerische Mathematik*, 19(2):176–178, April 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1978:ASN

[Wil78] J. H. Wilkinson. The Alston S. Householder Award. *Numerische Mathematik*, 29(4):463, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1984:NMQ

[Wil84] J. H. Wilkinson. On neighbouring matrices with quadratic elementary divisors. *Numerische Mathematik*, 44(1):1–21, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). In honour of the 60th birthday of F. L. Bauer.

Wild:1987:ACP

[Wil87] Paul Wild. Accelerating the convergence of power series of certain entire functions. *Numerische Mathematik*, 51(5):583–595, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilderotter:1997:AOA

[Wil97] Klaus Wilderotter. An asymptotically optimal algorithm for approximating bounded analytic functions. *Numerische Mathematik*, 75(3):397–404, January 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/`

00211/bibs/7075003/70750397.htm; http://science.springer.de/nmee/bibs/7075003/70750397.htm.

Wimp:1974:TAL

[Wim74] J. Wimp. Toeplitz arrays, linear sequence transformations and orthogonal polynomials. *Numerische Mathematik*, 23(1):1–17, February 1974. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Witsch:1977:KPL

[Wit77] Kristian Witsch. Konvergenzaussagen für Projectionsverfahren bei linearen Operatoren. (German) [Convergence of projection methods for linear operators]. *Numerische Mathematik*, 27(3):339–354, September 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Witsch:1978:NQP

[Wit78a] Kristian Witsch. Numerische Quadratur bei Projektionsverfahren. (German) [Numerical quadrature in projection methods]. *Numerische Mathematik*, 30(2):185–206, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Witsch:1978:PNVa

[Wit78b] Kristian Witsch. Projektive Newton-Verfahren bei elliptischen Randwertaufgaben. (German) [Projective Newton methods for elliptic boundary value problems]. *Numerische Mathematik*, 30(3):333–347, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Witsch:1978:PNVb

[Wit78c] Kristian Witsch. Projektive Newton-Verfahren und Anwendungen auf nichtlineare Randwertaufgaben. (German) [Projective Newton methods and applications to nonlinear boundary value problems]. *Numerische Mathematik*, 31(2): 209–230, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wittum:1989:MGM

[Wit89] G. Wittum. Multi-grid methods for Stokes and Navier–Stokes equations. transforming smoothers: algorithms and numerical results. *Numerische Mathematik*, 54(5): 543–563, February 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wittum:1990:CMG

[Wit90] Gabriel Wittum. On the convergence of multi-grid methods with transforming smoothers — theory with applications to the Navier–Stokes equations. *Numerische Mathematik*, 57(1):15–38, March 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wittum:1997:SI

[Wit97] G. Wittum. Shifted iterations. *Numerische Mathematik*, 76(2): 265–278, April 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7076002/70760265.htm; http://science.springer.de/nmee/bibs/7076002/70760265.htm.

Wagner:1997:SCM

[WKW97] C. Wagner, W. Kinzelbach, and G. Wittum. Schur-complement multigrid. A robust method for groundwater flow and transport problems. *Numerische Mathematik*, 75(4):523–545, February 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/7075004/70750523.htm; http://science.springer.de/nmee/bibs/7075004/70750523.htm.

Wagenfuhrer:1979:BCE

[WL79] E. Wagenführer and H. Lang. Berechnung des charakteristischen Exponenten der endlichen Hillschen Differentialgleichung durch numerische Integration. (German) [On calculating the characteristic exponent of the finite Hill differential equation by numerical integration]. *Numerische Mathematik*, 32(1): 31–50, March 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wohlfahrt:1963:UBP

[Woh63] Klaus Wohlfahrt. Über die Berechnung der Periodenverhältnisse elliptischer Gebilde. (German) [On the calculation of the relationship of the periods of elliptic structures]. *Numerische Mathematik*, 4:393–397, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wohlmuth:1999:RBE

[Woh99] Barbara I. Wohlmuth. A residual based error estimator for mortar finite element discretizations. *Numerische Mathematik*, 84(1):143–171, November 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9084001/90840143.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9084001/90840143.pdf.

Wolf:1978:AEE

[Wol78a] R. Wolf. Asymptotische Entwicklungen für Eigenwerte und Eigenvektoren bei der Approximation parameternichtlinearer Eigenwertaufgaben. (German) [Asymptotic expansions for eigenvalues and eigenvectors in the approximation of eigenvalue problems depending nonlinearly on a parameter]. *Numerische Mathematik*, 30(2):

207–226, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wolfe:1978:EIM

[Wol78b] M. A. Wolfe. Extended iterative methods for the solution of operator equations. *Numerische Mathematik*, 31(2): 153–174, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wolfe:1979:CAD

[Wol79] Jerry M. Wolfe. On the convergence of an algorithm for discrete L_p approximation. *Numerische Mathematik*, 32(4): 439–459, December 1979. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wong:1982:QFO

[Won82] R. Wong. Quadrature formulas for oscillatory integral transforms. *Numerische Mathematik*, 39(3):351–360, October 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wong:1984:CMS

[Won84] Wing Hung Wong. On constrained multivariate splines and their approximations. *Numerische Mathematik*, 43(1): 141–152, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wong:1992:PNFa

[Won92a] Sze-Ping Wong. Preconditioning nonconforming finite element methods for treating Dirichlet boundary conditions. I. *Numerische Mathematik*, 62(3): 391–411, August 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wong:1992:PNFb

[Won92b] Sze-Ping Wong. Preconditioning nonconforming finite element methods for treating Dirichlet boundary conditions. II. *Numerische Mathematik*, 62(3): 413–438, August 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wong:1993:PNF

[Won93] Sze-Ping Wong. Preconditioning P_1 nonconforming finite elements: condition numbers and singular value distributions. *Numerische Mathematik*, 65(2): 253–271, June 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wood:1968:ENM

[Woo68] W. L. Wood. On an explicit numerical method for solving the biharmonic equation. *Numerische Mathematik*, 11(5): 413–426, June 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wozniakowski:1977:NSS

[Woź77a] H. Woźniakowski. Numerical stability for solving nonlinear

equations. *Numerische Mathematik*, 27(4):373–390, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wozniakowski:1977:NSC

[Woź77b] H. Woźniakowski. Numerical stability of the Chebyshev method for the solution of large linear systems. *Numerische Mathematik*, 28(2): 191–209, June 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wozniakowski:1978:REA

[Woź78] H. Woźniakowski. Roundoff error analysis of iterations for large linear systems. *Numerische Mathematik*, 30(3): 301–314, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1971:LA

[WR71] James H. Wilkinson and Christian Reinsch, editors. *Linear Algebra*, volume II of *Handbook for Automatic Computation, Editors: F. L. Bauer, A. S. Householder, F. W. J. Olver, H. Rutishauser, K. Samelson and E. Stiefel*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1971. ISBN 0-387-05414-6, 3-540-05414-6. viii + 439 pp. LCCN QA251 .W67.

Wright:1992:DEA

[Wri92] K. Wright. Differential equations for the analytic singular value decomposition of a matrix. *Numerische Mathematik*, 63(2): 283–295, November 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wright:1994:SPE

[Wri94] Stephen J. Wright. Stable parallel elimination for boundary value ODEs. *Numerische Mathematik*, 67(4): 521–535, May 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067004/40670521.htm; http://science.springer.de/nmee/bibs/4067004/40670521.htm`.

Walther:1959:NBG

[WS59] A. Walther and H. Schappert. Numerische Behandlung des Gelenkvierecks. (German) [Numerical treatment of general quadrilaterals]. *Numerische Mathematik*, 1:110–120, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Werner:1967:RCA

[WSB67] H. Werner, J. Stoer, and W. Bommas. Rational Chebyshev approximation. *Numerische Mathematik*, 10(4): 289–306, November 1967. CODEN NUMMA7. ISSN 0029-

599X (print), 0945-3245 (electronic).

Wulbert:1973:NPS

[Wul73] Daniel Wulbert. A note on polynomial splines with free knots. *Numerische Mathematik*, 21(2): 181–184, April 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wuytack:1971:NTR

[Wuy71] L. Wuytack. A new technique for rational extrapolation to the limit. *Numerische Mathematik*, 17(3):215–221, June 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wuytack:1973:ARI

[Wuy73] Luc Wuytack. An algorithm for rational interpolation similar to the *qd*-algorithm. *Numerische Mathematik*, 20(5):418–424, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wets:1968:TAC

[WW68] R. J.-B. Wets and Christoph Witzgall. Towards an algebraic characterization of convex polyhedral cones. *Numerische Mathematik*, 12(2):134–138, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wasilkowski:1984:CAH

[WW84] G. W. Wasilkowski and H. Woźniakowski. Can adaption help on the average? *Numerische Mathematik*, 44(2):169–190, August 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wagner:1997:AF

[WW97] Christian Wagner and Gabriel Wittum. Adaptive filtering. *Numerische Mathematik*, 78(2): 305–328, December 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7078002/70780305.htm; http://science.springer.de/nmee/bibs/7078002/70780305.htm`.

Wynn:1959:CFCa

[Wyn59a] P. Wynn. Converging factors for continued fractions. Part I. *Numerische Mathematik*, 1(1): 272–307, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=272`.

Wynn:1959:CFCb

[Wyn59b] P. Wynn. Converging factors for continued fractions. Part II. *Numerische Mathematik*, 1(1): 308–320, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=308`.

Wynn:1959:PEC

[Wyn59c] P. Wynn. On the propagation of error in certain nonlinear algorithms. *Numerische Mathematik*, 1:142–149, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wynn:1959:SCI

[Wyn59d] P. Wynn. A sufficient condition for the instability of the q-d algorithm. *Numerische Mathematik*, 1(1):203–207, December 1959. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=1&issue=1&spage=203`.

Wynn:1960:UIA

[Wyn60] Peter Wynn. Über einen Interpolations-Algorithmus und gewisse andere Formeln, die in der Theorie der Interpolation durch rationale Funktionen bestehen. (German) [On interpolation algorithms and certain other formulas existing in the interpolations theory by rational functions]. *Numerische Mathematik*, 2(1):151–182, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wynn:1962:CTN

[Wyn62] P. Wynn. A comparison technique for the numerical transformation of slowly convergent series based on the use of rational functions. *Numerische Mathematik*, 4:8–14, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wynn:1963:NCF

[Wyn63] P. Wynn. Note on a converging factor for a certain continued fraction. *Numerische Mathematik*, 5(1):332–352, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wynn:1964:GPV

[Wyn64] P. Wynn. General purpose vector epsilon algorithm ALGOL procedures. *Numerische Mathematik*, 6(1):22–36, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wynn:1966:USR

[Wyn66] P. Wynn. Upon systems of recursions which obtain among the quotients of the Padé table. *Numerische Mathematik*, 8(3):264–269, May 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wells:1995:WSD

[WZ95] Raymond O. Wells, Jr. and Xiaodong Zhou. Wavelet solutions for the Dirichlet problem. *Numerische Mathematik*, 70(3): 379–396, May 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

URL http://link.springer.de/link/service/journals/00211/bibs/5070003/50700379.htm; http://science.springer.de/nmee/bibs/5070003/50700379.htm.

Xu:1992:GWM

[XS92] Jin-Chao Xu and Wei-Chang Shann. Galerkin-wavelet methods for two-point boundary value problems. *Numerische Mathematik*, 63(1):123–144, October 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Xu:1994:CBO

[Xu94] Yuan Xu. A class of bivariate orthogonal polynomials and cubature formula. *Numerische Mathematik*, 69(2):233–241, December 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/4069002/40690233.htm; http://science.springer.de/nmee/bibs/4069002/40690233.htm.

Yuan:1995:CNT

[xY95] Ya xiang Yuan. On the convergence of a new trust region algorithm. *Numerische Mathematik*, 70(4):515–539, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5070004/50700515.htm; http://science.springer.de/nmee/bibs/5070004/50700515.htm.

Yamamoto:1966:CMD

[Yam66] Tetsuro Yamamoto. A computational method for the dominant root of a nonnegative irreducible matrix. *Numerische Mathematik*, 8(4):324–333, June 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1968:ECO

[Yam68] Tetsuro Yamamoto. On the eigenvalues of compact operators in a Hilbert space. *Numerische Mathematik*, 11(3): 211–219, March 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1975:DEI

[Yam75] Tetsuro Yamamoto. On the distribution of errors in the iterative solution of a system of linear equations. *Numerische Mathematik*, 24(1):71–79, February 1975. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1976:DEI

[Yam76] Tetsuro Yamamoto. On the distribution of errors in the iterative solution of a system of linear equations. II. *Numerische Mathematik*, 25(4):461–463, December 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1980:EBC

[Yam80] Tetsuro Yamamoto. Error bounds for computed eigenvalues and eigenvectors. *Numerische Mathematik*, 34(2): 189–199, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1982:EBC

[Yam82] Tetsuro Yamamoto. Error bounds for computed eigenvalues and eigenvectors. II. *Numerische Mathematik*, 40(2): 201–206, December 1982. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1986:EBN

[Yam86a] Tetsuro Yamamoto. Error bounds for Newton's iterates derived from the Kantorovich theorem. *Numerische Mathematik*, 48(1):91–98, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1986:MFS

[Yam86b] Tetsuro Yamamoto. A method for finding sharp error bounds for Newton's method under the Kantorovich assumptions. *Numerische Mathematik*, 49(2/3): 203–220, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1987:CTN

[Yam87] Tetsuro Yamamoto. A convergence theorem for Newton-like methods in Banach spaces. *Numerische Mathematik*, 51(5): 545–557, October 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yang:1994:GMW

[Yan94] Daoqi Yang. Grid modification for the wave equation with attenuation. *Numerische Mathematik*, 67(3): 391–401, April 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4067003/40670391.htm; http://science.springer.de/nmee/bibs/4067003/40670391.htm`.

Yao:1999:HI

[Yao99] Qingchuan Yao. On Halley iteration. *Numerische Mathematik*, 81(4):647–677, February 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9081004/90810647.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9081004/90810647.pdf`.

Ye:1995:CET

[Ye95] Qiang Ye. On close eigenvalues of tridiagonal matrices. *Numerische Mathematik*, 70(4): 507–514, June 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.`

de/link/service/journals/00211/bibs/5070004/50700507.htm; http://science.springer.de/nmee/bibs/5070004/50700507.htm.

Guo:1993:FCP

[yGL93] Ben yu Guo and Jian Li. Fourier–Chebyshev pseudospectral method for two-dimensional vorticity equation. *Numerische Mathematik*, 66(3):329–346, December 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ying:1988:RAP

[YK88] Xingren Ying and I. Norman Katz. A reliable argument principle algorithm to find the number of zeros of an analytic function in a bounded domain. *Numerische Mathematik*, 53(1/2): 143–163, July 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yu:1986:AND

[YM86] Guo Ben Yu and A. R. Mitchell. Analysis of a nonlinear difference scheme in reaction-diffusion. *Numerische Mathematik*, 49(5):511–527, September 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yamamoto:1993:NVS

[YN93] Nobito Yamamoto and Mitsuhiro T. Nakao. Numerical verifications of solutions for elliptic equations in nonconvex polygonal domains. *Numerische Mathematik*, 65(4):503–521, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Young:1971:BOR

[You71] David M. Young. A bound for the optimum relaxation factor for the successive overrelaxation method. *Numerische Mathematik*, 16(5):408–413, February 1971. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ypma:1984:CNL

[Ypm84] T. J. Ypma. Convergence of Newton-like-iterative methods. *Numerische Mathematik*, 45(2): 241–251, November 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yserentant:1980:MLE

[Yse80] Harry Yserentant. Die Mehrstellenformeln für den Laplaceoperator. (German) [The Hermitian formulas for Laplace's operator]. *Numerische Mathematik*, 34(2):171–187, June 1980. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yserentant:1983:MKD

[Yse83] Harry Yserentant. Die maximale Konsistenzordnung von Differenzenapproximationen nicht-negativer Art. (German) [The maximal consistency order of difference approximations

of nonnegative kind]. *Numerische Mathematik*, 42(1): 119–123, September 1983. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yserentant:1986:EMS

[Yse86a] Harry Yserentant. Erratum: "On the multilevel splitting of finite element spaces". *Numerische Mathematik*, 50(1): 123, January 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See [Yse86b].

Yserentant:1986:MLS

[Yse86b] Harry Yserentant. On the multilevel splitting of finite element spaces. *Numerische Mathematik*, 49(4):379–412, July 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). See erratum [Yse86a].

Yserentant:1989:PID

[Yse89] Harry Yserentant. Preconditioning indefinite discretization matrices. *Numerische Mathematik*, 54(6):719–734, March 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yserentant:1990:TPB

[Yse90] Harry Yserentant. Two preconditioners based on the multilevel splitting of finite element spaces. *Numerische Mathematik*, 58(2):163–184, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Yserentant:1997:NCP

[Yse97a] Harry Yserentant. A new class of particle methods. *Numerische Mathematik*, 76(1):87–109, March 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076001/70760087.htm; http://science.springer.de/nmee/bibs/7076001/70760087.htm`.

Yserentant:1997:PMC

[Yse97b] Harry Yserentant. A particle model of compressible fluids. *Numerische Mathematik*, 76(1): 111–142, March 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7076001/70760111.htm; http://science.springer.de/nmee/bibs/7076001/70760111.htm`.

Yserentant:1999:EGS

[Yse99a] Harry Yserentant. Entropy generation and shock resolution in the particle model of compressible fluids. *Numerische Mathematik*, 82(1):161–177, March 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer-ny.com/link/service/journals/00211/bibs/9082001/90820161.htm; http://link.springer-ny.com/link/`

service/journals/00211/papers/9082001/90820161.pdf.

Yserentant:1999:PVS

[Yse99b] Harry Yserentant. Particles of variable size. *Numerische Mathematik*, 82(1):143–159, March 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082001/90820143.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082001/90820143.pdf.

Zadunaisky:1976:EEP

[Zad76] Pedro E. Zadunaisky. On the estimation of errors propagated in the numerical integration of ordinary differential equations. *Numerische Mathematik*, 27(1): 21–39, March 1976. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zahar:1977:MAM

[Zah77] R. V. M. Zahar. A mathematical analysis of Miller's algorithm. *Numerische Mathematik*, 27(4):427–447, December 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zawilski:1991:NSC

[Zaw91] Adam T. Zawilski. Numerical stability of the cyclic Richardson iteration. *Numerische Mathematik*, 60(2):251–290, November 1991. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenger:1968:CPB

[Zen68] Chr. Zenger. On convexity properties of the Bauer field of values of a matrix. *Numerische Mathematik*, 12(2):96–105, August 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenisek:1970:IPT

[Ženíšek] Alexander Ženíšek. Interpolation polynomials on the triangle. *Numerische Mathematik*, 15 (4):283–296, August 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenger:1972:CSB

[Zen72] Christoph Zenger. A comparison of some bounds for the nontrivial eigenvalues of stochastic matrices. *Numerische Mathematik*, 19(3):209–211, June 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenger:1984:PCS

[Zen84a] C. Zenger. Positivity in complex spaces and its application to Gershgorin discs. *Numerische Mathematik*, 44(1):67–73, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zennaro:1984:MPL

[Zen84b] Marino Zennaro. Maximum principles for linear difference-

differential operators in periodic function spaces. *Numerische Mathematik*, 43(1): 121–139, January 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zennaro:1986:SPR

[Zen86] Marino Zennaro. P-stability properties of Runge–Kutta methods for delay differential equations. *Numerische Mathematik*, 49(2/3):305–318, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zennaro:1988:NRK

[Zen88] Marino Zennaro. Natural Runge–Kutta and projection methods. *Numerische Mathematik*, 53(4):423–438, August 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenisek:1989:FEV

[Žen89] Alexander Ženíšek. Finite element variational crimes in parabolic-elliptic problems. I. nonlinear schemes. *Numerische Mathematik*, 55(3):343–376, June 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenisek:1990:FEM

[Žen90] Alexander Ženíšek. The finite element method for nonlinear elliptic equations with discontinuous coefficients. *Numerische Mathematik*, 58(1):51–77, September 1990. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenisek:1995:MAC

[Žen95] Alexander Ženíšek. The maximum angle condition in the finite element method for monotone problems with applications in magnetostatics. *Numerische Mathematik*, 71(3):399–417, September 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5071003/50710399.htm; http://science.springer.de/nmee/bibs/5071003/50710399.htm`.

Zennaro:1997:ASA

[Zen97] M. Zennaro. Asymptotic stability analysis of Runge–Kutta methods for nonlinear systems of delay differential equations. *Numerische Mathematik*, 77(4):549–563, October 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077004/70770549.htm; http://science.springer.de/nmee/bibs/7077004/70770549.htm`.

Zerner:1994:AOF

[Zer94] Martin Zerner. An asymptotically optimal finite element scheme for the arch problem. *Numerische Mathematik*, 69(1):

117–123, November 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4069001/40690117.htm`; `http://science.springer.de/nmee/bibs/4069001/40690117.htm`.

Zettl:1970:VMF

[Zet70] G. Zettl. Ein Verfahren zum Minimieren einer Funktion bei eingeschränktem Variationsbereich der Parameter. (German) [A method for the minimization of a function by a limited variation of parameters]. *Numerische Mathematik*, 15(5): 415–432, September 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenger:1978:IDS

[ZG78] C. Zenger and H. Gietl. Improved difference schemes for the Dirichlet problem of Poisson's equation in the neighbourhood of corners. *Numerische Mathematik*, 30(3): 315–332, September 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zhang:1993:OHM

[ZH93] L.-Q. Zhang and G.-Q. Han. Optimal homotopy methods for solving nonlinear systems. I. nonsingular homotopy paths. *Numerische Mathematik*, 65(4): 523–538, August 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zhang:1989:OOM

[Zha89] Shangyou Zhang. An optimal order multigrid method for biharmonic, C^1 finite element equations. *Numerische Mathematik*, 56(6):613–624, December 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zhang:1992:MSM

[Zha92a] Xuejun Zhang. Multilevel Schwarz methods. *Numerische Mathematik*, 63(4):521–539, December 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zhang:1992:ABM

[Zha92b] Zhimin Zhang. Arch beam models: finite element analysis and superconvergence. *Numerische Mathematik*, 61(1): 117–143, February 1992. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zhang:1993:TSA

[Zha93] Liqing Zhang. Two-sided approximation to periodic solutions of ordinary differential equations. *Numerische Mathematik*, 66(3):399–409, December 1993. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zhang:1995:LRF

[Zha95] Zhimin Zhang. Locking and robustness in the finite element method for circular arch problem. *Numerische Mathematik*, 69(4):509–522, February 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/5069004/50690509.htm; http://science.springer.de/nmee/bibs/5069004/50690509.htm`.

Zha:1996:CGS

[Zha96] Hongyuan Zha. Computing the generalized singular values/vectors of large sparse or structured matrix pairs. *Numerische Mathematik*, 72(3):391–417, January 1996. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/6072003/60720391.htm; http://science.springer.de/nmee/bibs/6072003/60720391.htm`.

Zheng:1989:EUV

[Zhe89] Q. Zheng. Über die Existenz von unendlich vielen periodischen Lösungen einer einfachen Temperaturregelung. (German) [On the existence of an infinite number of periodic solutions for a simple temperature control]. *Numerische Mathematik*, 55(3): 327–341, June 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zietak:1985:CSL

[Zie85] K. Zietak. The Chebyshev solution of the linear matrix equation $AX + YB = C$. *Numerische Mathematik*, 46(3): 455–478, June 1985. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ziegler:1997:GBB

[Zie97] Markus Ziegler. Generalized biorthogonal bases and tridiagonalisation of matrices. *Numerische Mathematik*, 77(3): 407–421, September 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077003/70770407.htm; http://science.springer.de/nmee/bibs/7077003/70770407.htm`.

Zitnan:1989:PEE

[Žit89] Peter Žitňan. An a posteriori error estimation of the Rayleigh–Ritz eigenvalues. *Numerische Mathematik*, 54(6): 639–654, March 1989. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Ziv:1983:SME

[Ziv83] Abraham Ziv. A stable method for the evaluation of a polynomial and of a rational function of one variable. *Numerische Mathematik*, 41(3): 309–319, July 1983. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zhou:1994:FAA

[ZL94] Aihui Zhou and Jichun Li. The full approximation accuracy for the stream function-vorticity-pressure method. *Numerische Mathematik*, 68(3):427–435, September 1994. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/4068003/40680427.htm; http://science.springer.de/nmee/bibs/4068003/40680427.htm`.

Zlamal:1968:FEM

[Zlá68] Miloš Zlámal. On the finite element method. *Numerische Mathematik*, 12(5): 394–409, December 1968. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zlamal:1969:SFE

[Zlá69] Miloš Zlámal. On some finite element procedures for solving second order boundary value problems. *Numerische Mathematik*, 14(1):42–48, December 1969. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zlamal:1970:FEP

[Zlá70] Miloš Zlámal. A finite element procedure of the second order of accuracy. *Numerische Mathematik*, 14(4):394–402, March 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zlatev:1978:SPV

[Zla78] Zahari Zlatev. Stability properties of variable stepsize variable formula methods. *Numerische Mathematik*, 31(2): 175–182, June 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zlatev:1981:ZSP

[Zla81] Zahari Zlatev. Zero-stability properties of the three-ordinate variable stepsize variable formula methods. *Numerische Mathematik*, 37(2):157–166, July 1981. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zouraris:1997:CRK

[Zou97] Georgios E. Zouraris. Convergence of Runge–Kutta approximations for parabolic problems with Neumann boundary conditions. *Numerische Mathematik*, 77(1):123–142, July 1997. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.de/link/service/journals/00211/bibs/7077001/70770123.htm; http://science.springer.de/nmee/bibs/7077001/70770123.htm`.

Zou:1999:AQL

[Zou99] Xiulin Zou. Analysis of the quasi-Laguerre method. *Numerische Mathematik*, 82(3):

491–519, May 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer-ny.com/link/service/journals/00211/bibs/9082003/90820491.htm; http://link.springer-ny.com/link/service/journals/00211/papers/9082003/90820491.pdf.

Zulehner:1988:SPS

[Zul88] Walter Zulehner. On the solutions to polynomial systems obtained by homotopy methods. *Numerische Mathematik*, 54(3): 303–317, December 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zurmuhl:1963:BVH

[Zur63] R. Zurmühl. Bemerkungen zum Verfahren von Hessenberg. (German) [Remark on a method of Hessenberg]. *Numerische Mathematik*, 4:377–380, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zurmuhl:1964:AGT

[Zur64] R. Zurmühl. Zur angenäherten ganzrationalen Tschebyscheff-Approximation mit Hilfe trigonometrischer Interpolation. (German) [Toward approximate fairly rational Chebyshev approximation with the aid of trigonometric interpolation]. *Numerische Mathematik*, 6(1):1–5, December 1964. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Zenisek:1995:ITN

[ZV95] Alexander Ženíšek and Michèle Vanmaele. The interpolation theorem for narrow quadrilateral isoparametric finite elements. *Numerische Mathematik*, 72(1):123–141, November 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL http://link.springer.de/link/service/journals/00211/bibs/5072001/50720123.htm; http://science.springer.de/nmee/bibs/5072001/50720123.htm.

Zwas:1973:TSL

[Zwa73] Gideon Zwas. On two step Lax–Wendroff methods in several dimensions. *Numerische Mathematik*, 20(5):350–355, October 1973. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).