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Title word cross-reference

$(0, 1)$ [BH04, DS10, HP12a, MNP03]. (β) [Mec12]. (C) [Mec12]. (k, τ) [Car12]. $(m + 1)^2 - s$ [Sne03]. (P, Q) [MDKM14, ZCL10]. (v, k, λ, μ) [Elz03]. -2 [WSH12]. $\{1, 2, 3\}$ [LY11]. $\{1, 2, 4\}$ [LY11]. $\{1, 3\}$ [CI12]. $\{1, 4\}$ [CI12]. 2 [BGRV09, Bea99, EEH+12, FKS14, MN10, NBdP11, XTC10]. $2n$ [Bay11]. 2×2 [CM05, MVPS09, MNP03]. 3 [AMS09, BSZ10, Kal12, RSS13]. 3×3 [LvdD14, CN10]. 4 [AHL+10, CV07, tCN12, GS11, OV10, dFNP13]. 5 [dFNP13]. 5×5 [LMS04]. A [MT11, Ver08]. A^* [Ver08]. A^T [Ver08]. $A^T XA = D$ [XHZ09]. $A^{(2)}_{T,S}$ [DX12]. AB [LS09]. $AX = B$ [fXyHZ09]. $AXB + CXD = E$ [fYwW12]. $AXB + CYD = E$ [WZY08]. BA [LS09]. $\bar{A}$ [Ver08]. $\mathbf{Z}$ [Gow12]. C [Liu12, Uhl98]. C^* [MD11a, MD11b, SW11b]. $\mathcal{C}$ [RV09]. χ [CF14a, CF14b]. D [ÁAFG12, NWZ98, ZCB03]. † [LHL11]. ℓ_p [Sch11a]. G [ZX08, AG12]. GF(2) [Bos10, Bea99]. GF(2^2) [OK09]. GL($2, R[x]$) [Fay00]. H [FGVR14, ZzH06, ZLXX09, ZLHL10, ZZLL12]. J [GP03]. K [BT13, CP99, LZZ13, LD11, Liu12, LWYJ13, AM14, Bay11, CF14a, CF14b, GL10, Gon12, XY14]. $\{K, S + 1\}$ [LT12]. $K_{2,3}$ [YSH12]. L [MPT00]. λ [Elz03]. λ_1 [LHY09]. LDL^T [Ova04]. LDU [BP12a]. M [BP12a, BPS05, CEM12, CLW12, GJOvdD07, LLYL11, Nab00, NX06, OTvdD09, SGL12, SST04, Stu98, TH10, ZZL11, Psa02]. $M_\vee$

[OTvdD09]. $\mathbf{R}^N$ [AG12]. $\mathbf{R}^P$ [KS09]. $\mathbf{Z}$ [Bal11]. μ [Elz03]. N [BSZ10, Liu12]. $n = 4$ [Dru04]. P [Bal11, DHHW03, JK96, BHL09, ZZ11]. P^α [HM98]. P_0 [CDH+02, CDH+03]. $\mathrm{PG}(\bigwedge^K V)$ [De 10]. $\mathrm{PG}(V)$ [De 10]. π [Gil07b]. Q [BP07, DN12, DHS09, Nik14, NY14, dAN13, dFNP13, CN10, MH96]. QR [SW11a]. R [BH04, BF08]. S [BPS06, BH04]. $\mathrm{SL}(2, \mathbf{C})$ [PLBG12]. sl_2 [AC10]. $\mathrm{SL}_n(F[x])$ [Ero04]. $\star$ [DD11a]. TP_K [AJN14]. $U_q(\widehat{\mathrm{sl}_2})$ [AC05]. W [Son13]. $X = Q + A^H(I \otimes X - C)^(-\delta)A$ [YLD10]. $X^2AX = AXA$ [LM10]. $XA + AX* = 0$ [DD11b]. $XAX = B$ [KL13]. ξ [Qi13]. Z [MOS+98, RHC06].

***** [CHMN15, FKS14, HSSM05]. ***-algebras** [CHMN15]. ***-congruence** [FKS14, HSSM05]. ***-ideals** [CHMN15]. ***congruence** [DD11b].

- [LY11]. **-adic** [MH96]. **-ads** [Uhl98]. **-algebras** [MD11a, MD11b]. **-by-** [tCN12, FKS14, RSS13]. **-colored** [Kal12]. **-commuting** [RV09]. **-competition** [SGL12]. **-congruence** [DD11a]. **-cycle** [dFNP13]. **-cyclic** [Liu12]. **-D** [BGRV09]. **-dimensional** [MN10, NBdP11]. **-eliminated** [Bay11]. **-extremal** [LHY09]. **-factorization** [Ova04]. **-generalized** [CI12]. **-index** [DN12, Nik14, NY14, dAN13, dFNP13]. **-inverses** [LY11, MDKM14, ZX08]. **-involution** [LD11]. **-Laplacian** [BHL09, ZZ11]. **-Lie** [BSZ10, Qi13]. **-like** [MT11]. **-matrices** [HP12a, MNP03, BP12a, BPS05, BH04, DS10, GJOvdD07, HM98, Nab00, NX06, OTvdD09, RHC06, Stu98, TH10, ZzH06, ZLXX09, ZLHL10, ZZLL12, ZZL11]. **-matrix** [CEM12, CLW12, CDH+02, CDH+03, DHHW03, DHS09, JK96, LLYL11, SST04]. **-maximal** [Gon12]. **-minor** [YSH12]. **-modules** [SW11b]. **-monotone** [CP99]. **-numerical** [CN10]. **-optimal** [ÁAFG12, NWZ98, ZCB03]. **-orthogonal** [ZCL10]. **-Pencils** [MOS+98]. **-positive** [FGVR14]. **-potent** [BT13, LT12]. **-Property** [Bal11, BP07]. **-regular** [BF08, Car12]. **-shape** [LHL11]. **-spaces** [Sch11a]. **-spectral** [GP03]. **-strictly** [BPS06]. **-symmetric** [CF14a, CF14b]. **-th** [CF14a, CF14b, Psa02]. **-Transformations** [Bal11, Gow12]. **-trees** [EEH+12]. **-triangular** [Gil07b]. **-tridiagonal** [AG12]. **-weighted** [Son13]. **-ycle** [dFNP13].

2008 [MST09]. **2011** [BBCP12].

3rd [HZ10b].

absolute [Gil07a, Roh09a]. **Absolutely** [JHH+03]. **abstract** [DN12]. **Accurate** [BP12a, MM13]. **action** [Sze07]. **actions** [ÐT01, Qi13]. **acyclic** [BF04, BOvdD05]. **Additional** [WW01]. **Additive** [AH10, Lim12, OK09, CILW11]. **Additivity** [CJ08, LX11]. **adic** [MH96]. **adjacency** [FHJT96]. **adjoint** [FKS08]. **adjointable** [SW11b]. **adjoints** [KM11]. **ads** [Uhl98]. **Affine** [NT07, AC05]. **agent** [SST04]. **aggregation** [Pul12]. **aggregation-disaggregation** [Pul12]. **algebra** [AC05, BS05, CILW11, Dub08, GKMS13, HZ10b, Kol00, PLBG12, RV09]. **Algebraic** [BF05, Bra09, Fen01, Böt11, BSS14, DD10, FK98, HM12a, Kir01, KM05, LZL10, MNS00, MN01, NS12, RMdAJ10, Sch11b, SGL11, TT07, ZL11]. **algebras** [BSZ10, BDL+09, BS07, Cha12, CJ08, CHMN15, Gol08, LX11, Mar14, MM12, MD11a, MD11b, NR11, PM12, Qi13, SZ09, Tao11]. **algorithm** [ÐSZ03, NX05, Roh09a, Sol02]. **algorithms** [MMD05, SW11a]. **Allow** [CF12, BCD+09, CHOvdD09, CEH+12].

Almost [Kol00]. **alternant** [Chu06]. **alternative** [GP03, Roh13]. **Alto** [MST09]. **American** [MST09]. **among** [hLSxS12]. **analogy** [Lin13a]. **Analysis** [BBCP12, HM12a, CGMSR11, DX12, gLgWhX13, Ova04, Rol03, See13, HZ10b]. **Analytic** [RS05]. **Anderson** [Lin13b]. **angle** [GSM14, KKP09, See13]. **anti** [XHZ09]. **anti-symmetric** [XHZ09]. **Aperture** [See13]. **application** [Bru02, KKP08, Kol00, NS12, YFW14, ZCB03]. **Applications** [BBCP12, BS05, MMW12, MST09, AV06, BP12b, BTM07, BL14a, CMRR13, HK98, KDTP12, LM98, LLZ13, MNS11, Per02, SS08b, Son13, TL07, HZ10b]. **applied** [JvdB12]. **approach** [KKP08, Kir04a, Sch11b]. **approximate** [HL07]. **Approximating** [Siv05]. **approximation** [Sch12, SA12, fXyHZ09, ZCL10]. **approximations** [FMMN11]. **arbitrary** [AHL+10, CMRR13, CG13, CKSV05, CV07, CGK+13, CDH+07, DOvdD10, GSF09, GS11, Per07, SK00]. **area** [AGV11, MR12]. **area-preserving** [MR12]. **arising** [BLdP00, ZLLX12]. **Arnol'd** [vdH10]. **array** [Sch11b]. **arrow** [PES09, PES11]. **associated** [tCN12, LT12, MR12, MS04]. **associative** [BDL+09, Gol08]. **asymmetric** [Xu08]. **Atiyah** [Đok02]. **attached** [CMRR13]. **attain** [hLSxS12]. **automorphisms** [YY13]. **autonomous** [Fen01, MR12]. **avoidance** [SST04].

backward [TG06]. **balanced** [FRM12, MNS00]. **Banach** [CIW09, CILW11, DX12]. **Banachiewicz** [TT05]. **band** [BG99]. **banded** [Bap07]. **Bannai** [Bro13]. **Bannai/Itô** [Bro13]. **base** [YY12]. **based** [OTvdD09]. **Basic** [Woź01]. **basis** [AC10, WWY10]. **be** [Cio10]. **behaviour** [Nof12]. **Berkowitz** [Sol02]. **Bernstein** [MM13]. **Bessel** [KL15]. **Bethe** [RM09]. **between** [GSM14, HM12b, PT00, Tlu07, Ver08, XTC10]. **Bézout** [CL09a]. **Bézoutians** [WWY10]. **Bi** [SK00]. **Bi-CG** [SK00]. **Bicyclic** [SHZ12, LL12, YFW14, Zhu11]. **Bidiagonal** [BP12b]. **bidirected** [BLP09]. **bilinear** [Sze05]. **Binary** [Zho12, MNS00]. **biorthogonal** [Mat03]. **bipartite** [BLS05, BOvdD05, Bro13, COvdD09, Cio10, hLSxS12, LWYJ13, MKR13]. **bipartite/ abipartite** [Bro13]. **biquadratiques** [El 11]. **Birkhoff** [Mar06]. **Bishop** [Mec12]. **bivariate** [BS12]. **Block** [BB07, COvdD09, KS11, PS13, BCR13, BZZ09, BZ10, BSZW12, CMS12, CvdD12, Gil07b, JN09, LvdD14, Sin12, TS01, Tia05, Tia10a, ZzH06, ZLHL10, ZB10]. **block-matrix** [TS01]. **blocking** [GT05]. **Boolean** [BF10]. **bordered** [BZ03]. **bosons** [BLdP00]. **bound** [BGRV09, BF11, BGH15, CLW12, Gil14, HK98, Kir01, Kir07, LZL10, Yu10, ZHS08, dF10]. **boundary** [CEG12, Loi12]. **Bounded** [Rod06, AKS12, CKLN14, CIW09, HP12b, LR98b, dAN13]. **boundedly** [Ero04]. **Bounds** [DFS13, HZ10a, NO03, Sch11a, YSH12, ZzH06, EG10, FFP12, LLYL11, LHL14, MC13, Mat08, MKR13, MNS00, Nie06, Sha12, XCL11, ZL11, DD08]. **Boyle** [GN02]. **Brauer** [LL11]. **Braun** [FR04]. **Brualdi** [BT12, Wan08]. **Bruhat** [Bru02, BH04]. **Brunovsky** [Jin05]. **Burke** [Kar06].

CA [MST09]. **cacti** [SWK14]. **calculations** [MPSS07]. **can** [God12]. **Canonical** [MMX00, BH13, DD10, FKS14, KKK11, KL13, MX99, XLJ13]. **cardinality** [SVP11]. **carries** [ĐSZ03]. **case** [BvdHL05, BK97, BOvdD04, Dru04, Fer09, JK11, MN10]. **cases** [BNSY14]. **caterpillar** [RMdAJ10, SGL11]. **caterpillars** [RMdAJ10]. **Cauchy** [Chu06, HK98]. **Cayley** [CL04, FT02]. **Certain** [MSS08, FFP12, LR02, Nie06, RMdAJ10, Stu98, YF11]. **certification** [SSV04]. **CG**

[SK00]. **chain** [BL14b, GKMS13, Kir03, Kir04a, Kir14, Xu08]. **Change** [FKS14, DS07]. **characterisation** [Dic10]. **characteristic** [BDL+09, FS98, Gon12, KM14, MPT00, XTC10, dF05]. **Characterization** [Bal11, KM05, Son13, LHC09, LHL11, Pek14, Roh10, Sci07, Xu10, YY12]. **Characterizations** [AH10, LMT10, AG14, CRU10, FR04, LZ14, Rum02]. **characterized** [Bou09]. **Characterizing** [Qi13]. **Chatelier** [FR04]. **Chebyshev** [LA02]. **Checking** [BO00]. **Chief** [Sha10, Sha13]. **Choi** [Nie13]. **chordal** [FM13]. **circle** [BF07, Per02]. **circulant** [BF10, LR13]. **circum** [LMT10]. **circum-Euclidean** [LMT10]. **Class** [BS07, BGRV09, BH04, BZ10, El 11, FKS08, HSSM05, Nab00, SS08b, SH12, ZLLX12]. **classe** [El 11]. **Classes** [BdPdP10, BLR01, CFP11, FT02, KM05, RMdAJ10, Stu98]. **classic** [LŠ08]. **classical** [Ber03]. **classification** [Ari02, Meh06b]. **classifying** [BDL+09]. **clique** [JN09, MÇ12, SH08, dAN13]. **closed** [Shu11]. **clow** [Sol02]. **cocycles** [FG14]. **cocyclic** [ÁAFG12]. **codimension** [DKS14]. **codimensions** [KKK11]. **coefficient** [KKP08]. **coefficients** [Böt11, Brü09, FFP12, PP08]. **Colin** [BFH05, FM13]. **Collatz** [Oep03]. **colored** [Kal12]. **coloring** [Bru02]. **Column** [EPM13, BH04, DMLT03, Kir09]. **columns** [FS98]. **combination** [TCID11]. **combinations** [LWB11, Nik06]. **Combinatorial** [Dah07, BLM+13, BNSY14, Kir04a, NM02, SS08c, KSvdD05]. **combinatorially** [JK96]. **common** [MS04]. **commutant** [JdGM05]. **Commutative** [CMS12, HKT14]. **commutativity** [DK08, JdGM05]. **commutator** [Bou11]. **Commutators** [dSP14]. **commutes** [Bou11]. **Commuting** [Han05, JW12a, XY14, BKNO07, DKO12, DKO13, Gil05, Gil11, MT10, RV09, TCID11]. **compact** [YY13]. **companion** [AV04, Aur13, KV04, KV14, vdDW96]. **Comparison** [CP99, Rod07, Woź01]. **competition** [SGL12]. **complement** [LNP14, YF11, ZZLL12]. **complementarity** [BP07, Roh09b]. **complementation** [BNS14, NX05]. **complements** [BOvdD05, FV08, LH10, RHC06, TT05, ZLXX09, yZLXJ09]. **complete** [BLM+13, BBC+14, Bou09, HKT14, Nof12, dF03]. **completely** [Dic10, DS08, Gow12, GS13]. **Completing** [Tia10a]. **completion** [AJN14, CDH+02, CDH+03, DHHW03, DHS09, FJS00, JK96, JK11]. **completions** [BK97, CH13, JN09, JTU98]. **complex** [AT06, Cof08, FGVR14, GSF09, GR09, GHK14, Gus13, HPP09, LLMZ12, Psa02, Rod07, Rum02, SSM10, SZ09, vdAtMM07]. **complex-valued** [vdAtMM07]. **component** [AGV11, Rol03]. **components** [DKO13]. **composition** [LLMZ12]. **compound** [LH10, RM09]. **compounds** [BLdP00]. **Computation** [vdAtMM07, HD10, PS13]. **computations** [MM13]. **computer** [BdPNdGPS08, LR98a]. **Computing** [KKK11, Jin05, KP08, LZFR12, NX05]. **con** [Ver08]. **concave** [DFS13, Per02]. **concavity** [KM14]. **concerning** [CF12]. **condition** [Bid07, BG99, Cio10, FR04, Gil14, Kar06, TG06, WZS09, XLJ13, ZX08]. **Conditioning** [Kir03, BF07, Dav04, Kir04a]. **Conditions** [JK11, CI12, DLRM+13, LD11, Roh09c]. **cone** [Bal11, Dic10, DS08, JG14]. **coneigenvalues** [DL12]. **cones** [Gow12, GS13, MS04]. **Conference** [BBCP12, FFB12]. **configurations** [Đok02]. **congruence** [DD11a, ĐSZ03, FKS14, HSSM05, Sze07]. **congruences** [Rod07, Ver08]. **conjecture** [Đok02, Dru04, Găv13, GN02, JTU98, Wan08, dF05]. **conjectures** [BF04]. **connected** [AGV11, Cio10, DKO13, MN01].

connections [Dod07]. **connectivities** [RMdAJ10]. **connectivity** [BF05, FK98, Kir01, MNS00, MN01, SGL11, vdH10]. **Consistency** [DD11a, LS98]. **constant** [Bos10, Brü09, Kir14]. **constrained** [LS98, Rol03]. **constraint** [LX14, PL12]. **constraints** [FK98, ZJW11]. **Constructing** [JR08, Pol10]. **construction** [Gus13, LM10]. **Constructions** [Rea02]. **containing** [HZS06]. **continuous** [Dra11, LZL10, ZL11]. **contraction** [Ben02]. **contribution** [Oep03]. **control** [KM11, SST04]. **Controllability** [Dod07]. **controllable** [CFP11]. **convergence** [Hol00, LA02, Mat08, Uhl98]. **converging** [ERS09]. **convex** [MS04]. **convexity** [KM01, NBdP14]. **Copies** [CMRR13]. **copositive** [GSM14, Gow12, Jar13, JR08]. **coprime** [BCG96]. **core** [BSS14]. **corona** [HS10]. **counting** [CL04]. **counts** [DKS14]. **Courant** [Tlu07]. **covariance** [ZCB03]. **cover** [BFMN11, CCH$^+$12, WZ12]. **CP** [SM01, SM04]. **CP-rank** [SM04]. **Craig** [Mar08]. **Cramer** [JvdB12]. **criterion** [Sur00, yZLXJ09]. **Critical** [JW12b, LNP14]. **Crossing** [FRM12]. **curvature** [DD10]. **curve** [Fen01, TT07]. **customer** [GT05]. **cut** [DZ11, LZZ13]. **cutpoints** [Kir01]. **cycle** [JK11, Kal12, dFNP13, vdH09]. **cycles** [YWZ12]. **cyclic** [CvdD12, FW10, FN98, Hog09, Lin13a, Liu12].

d [Sch12, BGRV09]. **DAE** [KM11]. **DAES** [CH13]. **Davis** [Nie13]. **December** [MST09]. **Decomposition** [Rak12, BP12a, Ben10, BL14a, Bru02, CMS00, EPM13, Meh06a, SS08a, Stu98, TMR06, XLJ13, vdDW96]. **decompositions** [BP12b, BCG96, De 13, HPP09, Mol09]. **decoupling** [CM00]. **Dedication** [The98]. **defined** [Nie06]. **définies** [El 11]. **definite** [Dru09, WZ08, YLD10, vdH09]. **definiteness** [CN98]. **deflating** [MT04]. **degenerate** [Nik14]. **degree** [BHL09, BF12, OV10, SI10, ZZ11, Zhu12]. **degrees** [JS02]. **delay** [HM12a]. **deleting** [Lot07]. **dependence** [KLR11]. **derivable** [AH10]. **derivations** [AH10, Qi13, XZ10]. **derivative** [CF14b, Sch11b]. **Derivatives** [AGV11, BGJ13, CF14a, vdAtMM07]. **derived** [SZ09]. **Description** [Roh09b]. **descriptor** [Brü09, CM00]. **design** [ZCB03]. **designs** [ÁAFG12, FRM12, NWZ98]. **Determinant** [CT04, CD00, MPSS07]. **determinantal** [Lin14]. **Determinants** [FMS12]. **determined** [LLW11, MK10, OV10, SH12]. **determining** [CKSV05]. **Deux** [Ben02]. **Diagonal** [BMN$^+$13, BS05, GHH$^+$14, HS03]. **diagonalizable** [Gil10]. **diagonally** [BP12a, BCR13, BPS06, Mor03, ZLXX09, yZLXJ09, ZLHL10, ZZLL12, ZH07]. **diagonals** [CL09b, LMR11]. **diameter** [AGV11, LL08a, hLSxS12]. **Diameters** [DKO13, KSH11]. **Diaz** [MNS11]. **dichotomy** [AS06]. **difference** [Loi12, Rod06, Sin14]. **differences** [Chu06]. **differential** [HM12a, KM05, NS12, Sch11b, ZL10]. **differential-algebraic** [HM12a, KM05, NS12, Sch11b]. **digraph** [Sne03]. **Digraphs** [KOvdD00, BCH$^+$13, BOvdD04, Kal12, KSH11, LR13, SGL12, SHZ12, YY12]. **Dihedral** [YY13]. **dimension** [Ber03, BS07, Tlu07, DD08, DD11b]. **dimensional** [Gol08, MM12, MN10, NBdP11]. **diods** [HKT14]. **Dirac** [FKS08]. **Directions** [FFB12, KSvdD05]. **disaggregation** [Pul12]. **discrepancy** [Dah03]. **discrete** [BHL09, Brü09, FKS08, GR09]. **discrete-time** [Brü09]. **discs** [KS11]. **Disjoint** [Bou09, Kol00]. **Distance** [SI10, BB07, BLP09, BS12, CEG12, JM13, Kir07, LMT10, Zha14]. **distance-regular** [CEG12]. **distances** [DKO12]. **distinct** [AAC$^+$13, dF10]. **distortion** [BLR01].

distribution [Kir03, Kir04a, Kir14, ZLXX09, ZLHL10]. **distributions** [Sch12]. **Disturbance** [CM00]. **divided** [Chu06]. **division** [Cha12, KDTP12]. **divisors** [CS09, SC08]. **domain** [BLS05, CL09a, LA02]. **dominant** [BP12a, BPS06, Mor03, ZLXX09, yZLXJ09, ZLHL10, ZZLL12, ZH07]. **double** [Chu06]. **doubly** [LZ12, MMX00, PES09, ZH07]. **Drazin** [BZ10, CGMSR11, COvdD09, CvdD12, CIW09, CILW11, DW10, GKW02, KKP08, NX06, SK00, Son13, WW01]. **Drazin-inverse** [SK00]. **dual** [KL15]. **duality** [GS13]. **Dunford** [Mec12]. **dynamic** [ZJW11]. **dynamics** [WS12].

Edge [LLZ13, BBC+09, BF05, HS10, MN01]. **Edge-grafting** [LLZ13]. **edges** [DZ11, LZZ13, Sne03]. **Editor** [Sha10, Sha13]. **Editor-in-Chief** [Sha10, Sha13]. **Efficient** [HD10, BP12a, DD11a]. **eigen** [Uhl98]. **eigenproblems** [MMD05, PES09]. **eigenspace** [BT12]. **eigenstructure** [Nof12]. **eigensystem** [vdAtMM07]. **Eigenvalue** [CH13, GHK14, Kar06, KV04, AT06, AKS12, BNPS08, BF04, BGK+11, BLM+13, BNSY14, BF11, CLW12, EG10, Fer09, HP12c, Hog05, Jar13, JS02, LŠ08, LLYL11, LL08b, LhLY09, LWYJ13, gLgWhX13, MS14, MKR13, MP09b, Oep03, Pat01, Rea02, SH10, TH10, Tlu07, WSH12, YGX13, YFW14, ZLXX09, ZLHL10, ZJW11, Zhu12, vdAtMM07]. **Eigenvalues** [Dod08, Fot10, Kou06, AAC+13, BdPdP10, BHL09, CL09b, Cha12, DH13, HJS02, HZS06, Kir04b, Kir06, Kir07, Kir09, KM01, Laf04, LPW14, LLS14, LZL10, LR98b, MVPS09, MC13, MX08, Nik06, Sin14, Tam10, dF10]. **eigenvector** [Cio10, HL07, vdAtMM07]. **eigenvectors** [CG07, Kou06]. **elasticity** [NO03]. **electronic** [HZ10b]. **elementary** [CS09, Ero04, SC08, Sur00]. **elements** [Che12, MD09, MD11b]. **eliminated** [Bay11]. **elimination** [Dah07]. **ellipsoids** [See13]. **elliptic** [LA02]. **elliptical** [RSS13]. **Embedding** [ÁAFG12, LWZ04]. **enclosures** [HD10]. **energies** [LL08a]. **energy** [DS07, GLX14, SHZ12, Tri13, XD13]. **entries** [FJS00, FHR04, LZ12, MSS08, ZZ14]. **entropies** [KN14]. **entry** [AJN14, BMN+13, Kir04a]. **EP** [BL14a, Che12, MD09, MD11b]. **equal** [BBC+14]. **equality** [Tia12]. **equals** [MS14]. **equation** [AS06, Böt11, DD11a, GL11, HD10, KL13, LM10, LZL10, LX14, Mar08, PL12, RR02, Roh09a, WZ08, WZY08, WJ10, XHZ09, fXyHZ09, YLD10, fYwW12, ZL10, ZL11, ZCL10, DD11b]. **equations** [DKS14, HM12a, HKT14, HSSM05, JvdB12, KM05, LR02, LD11, Loi12, RMZ14, Rod06, SW11b, WZS09]. **equilibrium** [MMW12]. **equitable** [AC10]. **Equivalence** [Sze07, Cof08, CFP11, HP07a, HS03]. **equivalences** [Rod07]. **equivalent** [HP07b, ZX08]. **ergodic** [Sch12]. **Erratum** [LhLY09]. **Error** [Pul12, CMS12]. **errors** [TG06]. **Essential** [Meh06a]. **Essentially** [Dru06]. **establish** [TS01]. **Estimates** [Gil07a, Gil05, Gil11, YH05, ZL10]. **Estimation** [JS02, JPS12, PS11]. **Estrada** [DZ11, SWK14, Sha12]. **Euclidean** [Fie98, Fie05, JM13, LMT10, Tao11]. **evaluations** [MPSS07]. **Even** [DMS11, Wan08]. **Eventual** [HW12, BCD+09, CEH+12, EHT09, Hog09]. **Eventually** [Hog09, NM02, OTvdD09]. **Exact** [FFJM14, LX14, HD10]. **exactly** [Jar13, Kal12, SH10]. **example** [LŠ08]. **existence** [LMS04]. **expansion** [FN02, FS00]. **expansions** [NO03]. **Explicit** [Brü09, HPP09, Roh11, vdDW96, BZ10, Ero04, LM10]. **exponent** [BF08, KOvdD00]. **exponential** [TMR06]. **exponentially** [BG99]. **Exponents** [KSH11, BF10, JW12b]. **extended** [LX14]. **Extension**

[KL15, CGMSR11, Tam99, ZLLX12]. **external** [Dru04]. **Extremal** [RMdAJ10, XD13, LHY09, SHZ12]. **Extreme** [PES11, WJ10]. **Extremizing** [FK98].

factor [BOvdD04]. **factorization** [Aur13, BH13, CRU09, GP03, Ova04]. **factorizations** [HP07b, TS01, Zho12]. **families** [Kol00, MMT11]. **family** [AC05, AV04]. **Fast** [FMMN11, KP08]. **feasible** [Elz03]. **feedback** [CM00]. **Feichtinger** [Găv13]. **few** [FJS00]. **fewer** [BJL+10]. **Fibonacci** [MSS08, TMR06]. **Fiedler** [BF12]. **field** [BDL+09, CDH+07, DGH+09, OK09, Son13]. **fields** [BvdHL05, BZZ09, CVV11, DK06, DMS11, Gro10, VV09, XTC10, ZB10]. **find** [HL07]. **finite** [BvdHL05, BDL+09, DK06, DMS11, Gol08, Gro10, Gus13, VV09]. **finite-dimensional** [Gol08]. **finitely** [ÐT01, Elz03]. **first** [Rod06]. **Fisher** [Böt06]. **five** [NWZ98]. **fixed** [HKT14, SI10]. **fixed-point** [HKT14]. **Flanders** [CRU09]. **flat** [JHH+03]. **flexible** [JvdB12]. **Focal** [HM05]. **foci** [LA02]. **Forbidden** [dFNP13]. **forcing** [BBC+14, BCH+13, BGH15, CCH+12, EEH+12, Pet12]. **forest** [VY12]. **form** [FKS14, GN02, JTU98, MMT11, Shu11, Sze05]. **Formal** [KM11]. **formed** [Dru09]. **formes** [El 11]. **forms** [AV04, El 11, GG04, Jin05, KKK11, KL13, LS09, MMMM11, MMX00, MX99, TT05, Tia05, YFW14]. **formula** [CL04, Kar06, Pul12]. **Forty** [Roh09c]. **four** [NWZ98, Tia12, VY12]. **four-vertex** [VY12]. **Fourier** [Dah07]. **fraction** [BCG96]. **frame** [KL15]. **frames** [RW02]. **free** [Bri07, YY12, YSH12]. **French** [Ben02, El 11]. **Frobenius** [ES08, ERS09, Per02]. **Full** [CRU09, JdGM05, KOS+09, LMS04, XZ10]. **fully** [FN98]. **function** [BS12, DFS13, MS04]. **functional** [Bay11]. **functionals** [Nie06]. **functions** [Dav04, Dra11, ES10, Gil05, Gil07a, Gil10, Gil11, GP03, Maz10, PTZ14, RS05, RS04, SS08b]. **fundamental** [TMR06]. **Further** [Mar08, SS08c].

gap [Sta13]. **gaps** [BF10]. **GCD** [Ova04]. **General** [Cha12, DK08, ES08, FJS00, Mol11, TT07, WWY10, ZLXX09, ZZLL12, vdAtMM07]. **generalization** [BTM07, MÇ12, Mat03, NS12, OTvdD09]. **Generalizations** [LL11, MST09]. **Generalized** [BZ03, Bay11, BLdP00, LH10, MP09a, Bap07, CILW11, CI12, DW10, DS13, ES10, HJS02, KKK11, KKP08, KP11, LX11, Nie13, PTZ14, PS13, RHC06, RM09, RS04, SMB03, Tia05, TL07, Tia12, TCID11, Tya12, WZS09, XLJ13, XQ11, XZ11, ZZLL12, ZJW11]. **generally** [yZLXJ09]. **generated** [Ero04, SM04]. **Generating** [KOS+09]. **generation** [BdPNdGPS08, LR98a]. **generic** [KKK11, Nof12]. **genus** [YY13]. **Geometric** [CFP11, CN09, Pol10, VU12]. **geometry** [Fie05, Hen10, MS04]. **Gersgorin** [JPS12]. **Gersgorin-style** [JPS12]. **Gershgorin** [KS11]. **Gershgorin-type** [KS11]. **Girth** [Kir04b, Zhu11]. **given** [DMLT03, DZ11, ERS09, HP12a, Kir09, LL08a, hLSxS12, LHC09, SH08, XD13, YWZ12, ZZ14, Zhu11, Zhu12]. **Graded** [Mar14, PM12]. **grafting** [LLZ13]. **graph** [BS12, BFH05, BBC+14, Bru02, BGH15, CMRR13, Cio10, DS07, DN12, DGH+09, DH13, DKO12, EG10, FK98, GS03, Hog05, JS02, LZ12, MKR13, MK10, NO03, Nik06, RV09, Tlu07, Yu10, Zhu12, dF03]. **Graphs** [BvdHL04, BvdHL05, BEH+14, LLW11, Sta13, AAC+13, AKS12, BNPS08, BFH05, BFMN11, BBC+09, BJL+10, BGK+11, BLM+13, BNSY14, BF11, Bou09, BOvdD05, But07, CEG12, Car12, COvdD08, CCH+12, CL07, CG07, CL04, DKO13, DZ11, EFP12,

Elz03, FM13, Fie05, FN02, FS00, Fri12, GL10, GLX14, HP12c, HS10, JM13, JN09, KM14, Kir01, KS08b, LR13, hLSxS12, LLZ13, LZZ13, LNP14, LLS14, LL08b, LHC09, LhLY09, LHY09, Liu12, LL12, LWYJ13, LZ14, MS14, Nik14, NY14, RM09, RRCM11, Sci07, Sha12, SH12, SGL11, Siv05, SH08, Tri13, WSH12, XD13, YL11, YSH12, YGX13, YFW14, YWZ12, Zha14, Zhu11, dAN13, vdH09, vdH10]. **Grassmann** [KKP09]. **Group** [CL09a, CG13, COvdD08, Mor11, ZB10, BZZ09, BSZW12, ÐT01, Fay00, LT12, LWB11, NX05, Sze05, TL07]. **groups** [BDL+09, Nie06, YY13]. **growing** [BG99]. **growth** [TT07]. **GUT** [AM12]. **GUT-majorization** [AM12]. **gyroscopic** [Lan99].

Hadamard [ÁAFG12, BNS14, CLW12, HK98, HZ10a, LLYL11, MP00, Sch11a, YF11]. **Hamiltonian** [LZFR12, MX08, Rod08a, Rod14b, SW11a]. **Handelman** [GN02]. **Hankel** [FN06]. **Harmonic** [Mor13, VU12]. **Hartwig** [Böt06]. **having** [ES08, MSS08, RRCM11]. **Hawkins** [Bid07, FR04]. **Herglotz** [SS08b]. **Hermite** [KDTP12, SMB03]. **Hermitian** [BdPdP10, DK08, Dru06, Fot10, IT12, Lim12, Mat08, MX99, OK09, Rod08b, Rod14a, Tia10a, Tia10b, Tia12, WJ10]. **Hermitian/skew** [IT12]. **Hermitian/skew-Hermitian** [IT12]. **Hessenberg** [DS10]. **hidden** [Mor03]. **Hilbert** [Dra11, SW11b, Sur00]. **Hom** [PM12]. **Hom-algebras** [PM12]. **homogeneity** [GS13]. **homomorphisms** [JG14]. **Hopf** [BH13]. **Horn** [CL09b, Tam10]. **Horner** [TMR06]. **Hua** [Lin13a]. **hulls** [AMS09]. **Hurwitz** [Lin13a, Tya12]. **Hyers** [HM12b]. **hyperbolic** [BTM07]. **hypercube** [MT11]. **hypergeneralized** [TCID11]. **hypergraphs** [Ref14]. **hyperplane** [dSP14]. **hypo** [BSZ10]. **hypo-nilpotent** [BSZ10]. **Hyponormal** [MRR04]. **Hypothesis** [vdH10].

ideal [BSZ10]. **ideals** [CHMN15, JG14]. **Idempotence** [XTC10]. **Idempotence-preserving** [XTC10]. **idempotency** [Fan11]. **idempotent** [FV08]. **idempotents** [AH10, JHH+03]. **identical** [ZB10]. **identifying** [CGK+13]. **identity** [VY12]. **II** [BNSY14, FN02]. **Image** [MDKM14]. **Image-kernel** [MDKM14]. **imaginary** [MX08]. **immanant** [CF14a]. **implications** [BFH05]. **Improved** [AG14, Dic10]. **Incidence** [WZ12]. **inclusion** [Oep03]. **inconsistent** [SK00]. **Indefinite** [Jar13, BdP13, BLM+02, FGVR14, LTU96, Mat08, MRR04, Meh06b, Meh06a, MX99, NBdP14]. **independence** [DGH+09, DD10, EG10, MÇ12]. **index** [BGRV09, DN12, DZ11, GS03, Loi12, Nik14, NY14, SWK14, Sha12, SK00, WW01, dAN13, dFNP13]. **index-2** [Loi12]. **indices** [BCRS04, DDM09, SGL12]. **induced** [Rak12]. **Inequalities** [KN14, PTZ14, Sin14, TH10, CZY02, DL12, Dra11, HS03, LWZ04, MT10, MP00, NX06, Nie10, Tia12]. **inequality** [AT06, BLM+13, DS07, KM13, LM98, Lin13b, Lin14, MS04, MNS11, Nie13, YF11]. **Inertia** [BJL+10, BGK+11, BGH15, Tia10b]. **Inertially** [CV07, GS11, CGK+13, DOvdD10]. **inertias** [GOvdD13, Tia10a]. **Infinite** [BE97, BF05, Gil07b, Hol00, MN01]. **inner** [BLM+02, FGVR14, LTU96, MRR04, Meh06b, Meh06a, MX99, RD12]. **Institute** [MST09]. **integer** [FFP12, MMT11, Zho12]. **integers** [Dub08]. **Integral** [GKW02, RS04]. **Interest** [SA12]. **Interior** [DS08, Dic10, JR08]. **Interlacing** [But07, Lot07]. **International** [BBCP12, HZ10b]. **Interpolation** [Pin04, AB00, Ber03, KDTP12]. **Interval** [RMZ14, SPS12a, CL04, Roh09c, Roh10,

Roh11, RF11, WZ12]. **Invariance** [XQ11]. **Invariant** [Rod14b, CM05, FGVR14, MRR04, XD13]. **invariants** [GG04, MM12]. **Inverse** [RF11, Aur13, BF04, BGK+11, BLM+13, BNSY14, BI02, Bri07, BSZW12, CEM12, CGMSR11, CG13, COvdD09, CvdD12, CLW12, CPU10, CIW09, CILW11, DW10, Fer09, FR04, GKW02, Hog05, HM12b, KKP08, KP08, KP11, KS08a, LŠ08, LS13, LLYL11, LWB11, MD11a, Nab00, NX05, PES09, Rea02, Roh11, SK00, Son13, Stu98, Tia10b, TCID11, WW11, WW01, XCL11, ZB10, ZJW11, ZZL11]. **inverse-orthogonal** [LS13]. **inverse-positive** [FR04]. **inverses** [BZ03, Bap07, BPS05, BZZ09, BZ10, CL09a, COvdD08, CI12, LY11, MDKM14, NX06, Nie13, PS13, Tia05, TL07, Tia12, XQ11, XZ11, ZX08]. **inversion** [BOvdD04, NS12]. **invertible** [GLR03, LWB11, RS05]. **involution** [Che12, LD11, MD09]. **involutory** [ÐSZ03]. **involving** [MP00, Sin14, XQ11]. **irreducibility** [GS13, yZLXJ09]. **Irreducible** [FN06, Oep03]. **irregular** [CG07]. **Isometric** [RW02]. **isometries** [Che12, MN10, MD09]. **isoperimetric** [Siv05]. **Isotropic** [Rod08b]. **issue** [BBCP12]. **iterates** [Mat08]. **Iterations** [Per02]. **Iterative** [PL12, Pul12, SK00].

Jacobi [CEG12, CEM12, Gus13, Mat08]. **Jensen** [KM13, Nie13]. **Johnson** [KS08b, LM98]. **joint** [NBdP14, PT00, Xu10]. **Jordan** [AH10, Fan11, JTU98, KLL+11, LS09, MX99, Tao11, XZ10]. **journal** [HZ10b].

Kantorovich [Nie10]. **Kemeny** [Kir14]. **kernel** [MDKM14]. **Khatri** [CZY02]. **kinds** [fYwW12]. **known** [MMT11]. **Krein** [BdPNdGPS08, LR98a, NBdP11]. **Kreĭn** [RS04]. **Kronecker** [Har14].

labeled [JN09]. **Langer** [RS04]. **Laplacian** [AKS12, BF11, BHL09, Bou09, BSZW12, But07, DH13, HP12c, KM14, Kir06, Kir07, LLZ13, LLW11, Liu12, LWYJ13, Lot07, MC13, MK10, OV10, Pat01, SH12, Tlu07, XD13, YL11, Yu10, YGX13, YFW14, ZZ11, Zhu11]. **Laplacian-energy-like** [XD13]. **large** [KOvdD00]. **Largest** [BHL09, AKS12, BF11, LLS14, LL08b, LhLY09, MS14, MKR13]. **law** [BLZ10, MD11a, ZX08]. **laws** [BL14b, CI12, LY11, TL07, XZ11]. **LCM** [Ova04, WHT14]. **leading** [MMT11, PP08]. **Least** [ZCL10, CJ11, HL07, LLS14, LWYJ13, PL12, WSH12, YGX13, YFW14, fYwW12, Zhu12]. **least-squares** [CJ11, HL07]. **Lebesgue** [Mol09]. **Left** [MVPS09, Cha12, KRT08, KS09, KS08a, XZ10]. **length** [BS07]. **Leonard** [AC10, Bro13, NT07]. **letter** [HJS02]. **level** [Pul12]. **levels** [RRCM11]. **Lewis** [Kar06, Tam99]. **Li** [BT12]. **Lie** [BSZ10, BDL+09, BS07, NR11, PLBG12, Qi13, SZ09]. **like** [MT11, NX06, XD13]. **Limit** [Kir06]. **line** [Tlu07]. **Linear** [CKLN14, Dub08, Fan11, KRT08, Nik06, AM12, AG12, BE12, BP07, BCRS04, Brü09, CJ11, Dah03, DD10, FG14, FFP12, FS98, HM12a, HR06, HSSM05, HZ10b, JvdB12, KKP08, KS09, Kol00, KM05, KM11, KLR11, LS98, LMT10, LWB11, Loi12, MR12, MNS11, NBdP11, NS12, Nie06, Nie10, Nie13, RR02, Roh09b, Sch11b, SK00, TCID11, WW01]. **Linearization** [Lan08]. **Linearizations** [AV06, DDM09, BF12, DD08]. **list** [BL14b]. **Liu** [Wan08]. **local** [Qi13]. **localization** [AT06, GHK14, LL11, Maz10]. **Loewner** [PS11]. **Loewy** [LM98]. **log** [KM14]. **log-concavity** [KM14]. **London** [LM98]. **long** [NY14]. **look** [SS08c]. **loop** [YY12]. **loop-free** [YY12]. **Loops** [BEH+14, SGL12]. **loss** [GT05]. **low** [FMMN11, GR09]. **Lower** [Sha12, BK97, BF11, LLYL11, ZHS08, ZL11, dF10, DD08]. **Lyapunov**

[AS06, HM98, LX14, MS04, ZL10].

magnitude [FFP12]. **main** [DH13]. **Majorization** [MC13, AM12, AG12, BE12, DL12, DS13, KRT08, KS09]. **majorizations** [HR06]. **many** [ÐT01, Elz03, Kir01]. **map** [MR12]. **Maps** [LPR07, Mol09, Mol11, AH10, CJ08, Fan11, GLR03, LX11, MNS11, OK09, Per02, RR10, XTC10, XY14]. **Markov** [BL14b, GKMS13, Kir03, Kir04a, Kir14, Xu08]. **marriage** [Bru02]. **matching** [XD13]. **matchings** [Fri12, Zha14]. **Mathematics** [MST09]. **Matrices** [Fie05, Han09, JCST09, SPS12a, AT06, AG14, AJN14, AB00, ÁAFG12, AV04, AV06, AM14, Ari02, BT13, BB07, BNS14, BZ03, Bap07, BO00, BF04, BFH$^+$09, BP12a, BMN$^+$13, BTM07, Bea99, Ben10, BL14a, BF07, BE97, BLR01, BLM$^+$02, Bos10, BG99, Böt06, Böt11, Bou11, BCR13, BOvdD05, BPS05, BPS06, BH04, BZZ09, BZ10, BSZW12, BF08, BF10, BS05, CVV11, CRU10, CZY02, CL09a, CL09b, CEG12, CEM12, CG13, COvdD08, CvdD12, CS09, CN98, CN10, tCN12, CKLN14, CM05, CP99, DGH$^+$09, DS10, Dod08, DMS11, DK08, DMLT03, Dru06, Dru09, EPM13, ES08, ERS09, ES10, Ero04, FvdD00, FT02, FW10, FMS12, FN06, Fot10, FGVR14, FHR04, FV08, FMMN11, FKS08, FR04, FS98, FKS14, GSF09, Gil05, Gil07b, Gil10, Gil11, Gil14, GR09, GSM14]. **matrices** [GK99, GJOvdD07, GHK14, GLR03, HP12a, Han05, HP12b, HR06, HM98, HS03, HK05, HP07b, Hog09, HW12, HPP09, HZ10a, JM13, Jar13, JR08, JTU98, KKP08, KV04, KV14, KS11, Kir04b, Kir09, KM01, Kou06, KL13, LM98, Laf04, LS13, LMS04, LMT10, LZ12, LLZ13, LHL14, Lim12, Lin14, LvdD14, LH10, LWB11, LZFR12, LR98b, MVPS09, MMT03, MM13, MNP03, Mat08, MMW12, MMX00, MRR04, Meh06b, Meh06a, MX99, MX08, VV09, MT11, MSS08, MP09a, MMT11, MP00, MT04, Mor03, Nab00, NM02, NX06, Oep03, OTvdD09, OK09, Ova04, dSP14, Per07, PES09, PES11, Pin04, Pin08, RD12, RSS13, Rea02, RHC06, RMZ14, Rod08a, Rod08b, RŠ11, Rod14a, Rod14b, Roh09c, Roh10, Sem06, SW11a, Sch12, SM04, SH10, SC08, Stu98, SPS12b, Sze07, Tam10, Tia05]. **matrices** [Tia10a, TH10, Tia12, Tya12, WHT14, XLJ13, XY14, YF11, ZzH06, ZLXX09, yZLXJ09, ZLHL10, ZLLX12, ZZLL12, Zho12, ZH07, ZZL11, dF10, vdDW96, BL04]. **Matricial** [SS08a, GLR03]. **Matrix** [BBCP12, BOvdD04, ES10, FFB12, Gre14, LWZ04, MST09, SSV04, Aur13, BLP09, BS12, Bay11, BLZ10, BH13, Bri07, BCG96, Bru02, BF12, BT12, BSS14, CW13, CT04, CEM12, COvdD09, CLW12, CJLP99, CDH$^+$02, CDH$^+$03, Cof08, Dav04, DHHW03, DHS09, DDM09, DKS14, ÐSZ03, ERS09, EG10, FJS00, FN02, FHJT96, Gil07a, GP03, Gus13, HD10, HKT14, Hol00, HK98, HSSM05, HZS06, IT12, JW01, JK96, JS02, KKK11, KKP08, KP08, KP11, KRT08, KS09, Kir07, KL13, Lan08, LT12, LR02, LM10, LX11, LLYL11, LD11, LLMZ12, LY11, LMR11, LX14, MMMM11, MS14, MH96, MR12, Maz10, NS12, Nof12, PTZ14, PL12, PP08, Pat01, PS11, PM12, Pol10, PT00, Psa02, RV09, RR02, RMZ14, RS05, Rod07, Roh11, RF11, Roh13, SMB03, SA12, Shu11, SST04]. **matrix** [TMR06, TS01, TL07, Tia10b, Uhl98, WZ08, WZY08, WJ10, Woź01, WZ12, XHZ09, fXyHZ09, XZ11, XTC10, XZ10, YH05, YLD10, fYwW12, ZL10, ZZ14, ZB10, ZCL10, ZX08, ZCB03, dF05, DD08, HZ10b, KSvdD05]. **matroid** [vdH09]. **MatTriad** [BBCP12]. **Max** [GKMS13, BS05, BSS14]. **max-algebraic** [BSS14]. **Maxima** [DN12, Nik14, NY14, dAN13, dFNP13]. **Maximal** [Bru02, BSZ10, DKO12, GSM14, Gon12, Sne03, Tia10a]. **maximum** [BBC$^+$14, BCH$^+$13, CCH$^+$12, EEH$^+$12, HP12a, Hog11, JS02, MNP03, OV10, Pet12, SI10, YY12, Zhu12, vdH09]. **mean** [SS08b].

means [LWZ04, Mol11, Pol10, Sin14]. **measurement** [CM00]. **Mercer** [KM13]. **Merris** [GS03]. **metabelian** [BDL+09]. **Metcalf** [MNS11]. **method** [BH13, CPU10, Jin05, LA02, PL12, SK00]. **methods** [LZFR12, Mat08, Pul12]. **metric** [BdP13, GR09, KKP09]. **midpoint** [Roh11]. **Minimal** [BLR01, SM01, BvdHL04, BvdHL05, CKSV05, DDM09, DK06, GLX14, KL15, LL08a, LZ12, RR10, Tia10a, fXyHZ09]. **minimization** [LX14]. **minimizing** [YFW14]. **Minimum** [AAC+13, BFMN11, BBC+09, BCH+13, BEH+14, CDH+07, DGK+12, GHH+14, LNP14, BFH05, BFH+09, BGK+11, BMN+13, CW13, CJ11, DGH+09, DMS11, Gro10, Hog11, LLYL11, hLSxS12, MNR10, SGL11, SH08, TH10]. **minimum-norm** [CJ11]. **minor** [YSH12]. **minors** [BP12b, FvdD00, GJOvdD07, MMT11, Pin08]. **minus** [Rak12]. **Mirsky** [CL09b]. **mixed** [TL07, XZ11]. **mixed-type** [TL07, XZ11]. **model** [TT07, Xu08, ZJW11]. **modèles** [Ben02]. **models** [Ben02, CMS12]. **modified** [CG13]. **modularity** [MS14]. **modules** [SW11b]. **moment** [LZZ13]. **monotone** [CP99]. **monotonically** [JN09]. **Monotonicity** [SPS12a, SPS12b]. **Moore** [BI02, Bri07, HM12b, KP08, Mat03, MD11a, Tia10b, TCID11, WW11, XCL11]. **Motzkin** [Dah07]. **moving** [GT05]. **MR2390359** [LhLY09]. **Multi** [SST04, Pul12]. **Multi-agent** [SST04]. **multi-level** [Pul12]. **multidiagonal** [FMS12]. **multigraphs** [MNR10]. **multiple** [LY11, XZ11, ZX08]. **Multiplicative** [GLR03, LMR11, BP07]. **multiplicities** [KV04]. **multiplicity** [JS02, Tlu07]. **multiplier** [NR11]. **multipoint** [Loi12]. **multivariate** [gLgWhX13]. **Mumford** [Sur00].

Natural [ÐT01]. **necessarily** [BFH+09]. **necessary** [Cio10, Roh09c]. **negative** [CRU10, FvdD00, Jar13]. **Nested** [AKS12, CL04, FRM12, GJOvdD07, WZ12]. **nests** [Bru02]. **networks** [GT05]. **Neutral** [RŠ11, Rod14b]. **Nevanlinna** [Ber03, RS04]. **Newton** [BH13, NX06]. **Newton-like** [NX06]. **Nilpotent** [Per07, BSZ10, BK97, BS07, BKNO07, CVV11, KOS+09, VV09, NR11, SZ09]. **Nodal** [BLS05, Tlu07]. **Non** [LR13, LR02, LMS04, BdPdP10, Gil11, GS13, Laf04, LL08b, LhLY09, LHY09, LWYJ13, MR12, MMW12, MT10, Pul12]. **non-autonomous** [MR12]. **non-bipartite** [LWYJ13]. **non-commuting** [Gil11, MT10]. **non-equilibrium** [MMW12]. **Non-existence** [LMS04]. **non-Hermitian** [BdPdP10]. **non-homogeneity** [GS13]. **non-real** [Laf04]. **non-regular** [LL08b, LhLY09, LHY09]. **Non-singular** [LR13]. **non-symmetric** [Pul12]. **Non-trivial** [LR02]. **nonincreasing** [OK09]. **Nonnegative** [SC08, SSM10, AG14, BK97, BSS14, CDH+03, CP99, DMLT03, ES10, FN98, FV08, HS03, HP07b, HZ10a, KS08a, KM01, LM98, Laf04, LŠ08, LHL14, NM02, Oep03, OTvdD09, SRMB07, SRM11, WZ08, YH05, YF11, Zho12, BL04, MST09]. **Nonnegativity** [FV08, CEH+12, EHT09, Hog09]. **nonpositive** [CRU10]. **nonsingular** [BPS05, Kal12, LMS04, PP08, WHT14]. **nonsingularity** [BO00, FFJM14]. **nonstrictly** [ZLXX09, ZZLL12]. **nonsymmetric** [SK00]. **nonzero** [CV07, DOvdD10, VV09, ZZ14]. **Norm** [Gil05, Gil11, KLL+11, CF14b, CJ11, LPR07]. **Normal** [PP08, Ari02, Che12, KS11, Meh06b, Meh06a]. **normalized** [But07, Kir06, Kir07]. **norms** [BGJ13, Böt06, Dru09]. **Note** [EEH+12, Lot07, Sha13, BCR13, BSZW12, CW13, Car12, Dah03, HP12b, Hog11, KV14, Kir07, KM01, LS13, LL08b, LhLY09, LY11, MS14, NBdP14, NX06, Pek14, RHC06, SM04, YH05, Zhu12]. **Notes**

[Lin13b, WSH12]. **notion** [KKP09]. **nullity** [BBC+14, BCH+13, CCH+12, CL07, EEH+12, Hog11, LHC09, Pet12, vdH09]. **nullstellensatz** [CHMN15]. **number** [AAC+13, BFMN11, BBC+14, BCH+13, CCH+12, DZ11, EEH+12, EG10, LR98b, MNP03, Pet12, Siv05, SH08, XD13, dF10, dAN13]. **numbers** [BG99, CJLP99, Gil14, Kar06, MÇ12, TG06, XLJ13, ZZ14]. **Numerical** [BdP13, LTU96, AMS09, AM14, BLdP00, BdPNdGPS08, CN98, CN09, CN10, CPU10, DLRM+13, Hen10, KLR11, LR98a, LPR07, NBdP11, NBdP14, PT00, RSS13, Rod14a, VU12, ZLLX12].

objects [NWZ98]. **oblique** [KL15]. **observability** [FS98]. **obtained** [BF12]. **occasion** [HZ10b]. **occur** [God12]. **octonion** [Rod14a]. **odd** [BF12, DMS11, MNP03]. **old** [JW12b]. **One** [HS03, AJN14, Bou11, BOvdD04, CJ11, Jar13, Kal12, Lim12, OK09, SH10]. **One-sided** [HS03]. **only** [Elz03]. **open** [Fri12]. **opérateurs** [Ben02]. **operation** [Pek14]. **Operator** [Dru09, CF14a, CF14b, CN09, Dra11, DFS13, KM13, KN14, LTU96, Sin14, SW11b, XQ11]. **operators** [BdPdP10, BdP13, Ben02, Bra09, BKNO07, CIW09, Dra11, Fan11, FN98, Gil07b, HR06, KM11, KLR11, LR98a, MT10, Mol09, MN10, Mol11, NBdP11, Nie06, Nie13, Sch11a, VU12]. **Opinion** [WS12]. **Optimal** [JPS12, Rol03, ÁAFG12, DGH+09, KM11, NWZ98, fXyHZ09, XCL11, ZCL10, ZCB03]. **orbits** [ÐT01, DD11b]. **order** [AMS09, AHL+10, BLZ10, BH04, CV07, CI12, EPM13, Fen01, GS11, HP12a, LY11, MD11a, Rak12, Rod06, Sch11b, TL07, XZ11, ZX08]. **ordered** [BL14b, Nie10]. **Ordering** [LZ12, PS11]. **orderings** [BLZ10]. **orders** [WZ12]. **oriented** [GLX14, Ref14]. **ortho** [XHZ09]. **ortho-symmetric** [XHZ09]. **orthogonal** [CMS12, CJLP99, ÐSS09, LS13, ZCL10]. **orthogonality** [SS08c]. **Orthosymmetric** [Sin12]. **Ostrowski** [LHL14]. **outerplanar** [BFMN11]. **Overton** [Kar06].

packings [Per02]. **pair** [CFP11, DKS14, NT07, WZS09, dF05]. **Pairs** [Bou11, AC05, AC10, Bro13, JW12a, Rod08b, RŠ11]. **Palindromic** [BF12, MMMM11, Rod06]. **Palo** [MST09]. **parabolic** [AS06, Sze07]. **paracontracting** [BE97]. **parallel** [KDTP12, NX05]. **parameter** [MP09b]. **parameterized** [ZHS08]. **parameters** [BFH05, FM13]. **Pareto** [SVP11]. **part** [IT12]. **Partial** [MD09, Uhl98, AJN14, BLZ10, Che12, EPM13, EEH+12, JTU98, Rak12]. **partially** [Dod08]. **partitioned** [SRM11]. **Pascal** [Bay11, MP09a]. **Path** [ZZL11, COvdD08, CCH+12, dF03]. **Paths** [ERS09, EFP12, NY14]. **pattern** [CW13, GSF09, JdGM05]. **Patterns** [JdGM05, AHL+10, BCD+09, CHOvdD09, CEH+12, CKSV05, CV07, CF12, CGK+13, DOvdD10, EHT09, GS11, GOvdD13, Hog11, JW12a, KS08a, KOS+09, VV09, Per07, Tya12]. **PDEs** [ZLLX12]. **abipartite** [Bro13]. **combined** [CFP11]. **Itô** [Bro13]. **skew-Hermitian** [IT12]. **skewsymmetric** [RŠ11]. **pencil** [KKP08]. **Pencils** [MOS+98, BF12, Cof08, DKS14, MPT00, MMX00, Rod07]. **pendant** [BF05, GL10, Liu12, LWYJ13]. **pendent** [LHC09]. **Penrose** [BI02, Bri07, HM12b, KP08, Mat03, MD11a, Tia10b, TCID11, WW11, XCL11]. **per-symmetric** [CKLN14]. **perfect** [BF07, God12, Zha14]. **Periodic** [BCG96]. **peripheral** [FN98]. **permanent** [Wan08]. **permanental** [BLdP00]. **Permanents** [DS10, LLZ13]. **perplectic** [MMD05]. **Perron** [BT12, ES08, ERS09, NX05, Per02, RHC06]. **Perturbation**

[DW10, DX12, MX08, CGMSR11, CS09, FFJM14, HP12c, LA02, XCL11].
Perturbations [Gil10, CMS00, FKS14, GR09, MX08]. **Perturbing** [Laf04]. **physics** [MMW12]. **Pick** [Ber03]. **placed** [JK11]. **placement** [CH13]. **plane** [De 13]. **point** [Fie98, HKT14]. **points** [tCN12, DS08, Kir06]. **Polar** [CMS00, HPP09, XLJ13, vdDW96]. **polyhedral** [Tlu07]. **Polynomial** [AMS09, MT10, AV04, AV06, BF12, Fen01, FS98, KDTP12, Nof12, Stu98, VY12, WWY10, dF03, dF05]. **polynomially** [Meh06a]. **polynomials** [AM14, BH13, Cha12, tCN12, DDL06, DDM09, FN02, Han09, KM14, Lan08, MMMM11, MPT00, Maz10, PP08, PT00, SMB03, Spi06, Tya12, DD08]. **polytope** [Mar06]. **Positive** [CN98, FHR04, HJS02, LvdD14, Pet12, SW11b, YLD10, BGRV09, Bal11, BCRS04, CW13, CS09, Dic10, Dru09, DS08, EEH$^+$12, El 11, FJS00, FGVR14, FR04, Gow12, GS13, Han09, HZ10a, Jar13, JCST09, JN09, JK11, KS08a, Lin14, MM13, Mol09, MN10, Mol11, Mor03, MNS11, Pin08, Sch11a, SH10, vdH09]. **positive-definite** [Dru09]. **positives** [El 11]. **positivity** [BCD$^+$09, CHOvdD09, EHT09, FT02, FFJM14]. **Possible** [ZZ14, CJLP99]. **PostLie** [PLBG12]. **potent** [BT13, IT12, LT12]. **potentially** [KOS$^+$09]. **pour** [Ben02]. **power** [BL14b, CF14a, CF14b, CHOvdD09, Gol08, GL11, HM05, HP12b, WHT14]. **power-associative** [Gol08]. **power-positivity** [CHOvdD09]. **powers** [BGJ13, DGK$^+$12, Dub08, Shu11, Uhl98]. **Preface** [BBCP12, BL04, FFB12, HB98, Her00, HZ10b, KSvdD05, MST09]. **preliminary** [BFH$^+$09]. **prescribe** [LPW14]. **prescribed** [Dod08, FS98, RRCM11, SC08, Tam10]. **preserve** [GLR03]. **preservers** [AM12, AG12, BE12, CKLN14, DK08, KRT08, KS09, KLL$^+$11, LMT10, Lim12]. **preserving** [BK97, CT04, ES10, Fan11, HR06, LPR07, LZFR12, MMD05, MR12, Mol09, Mol11, Sze05, XTC10]. **primitive** [BF08, BF10, SGL12, YY12]. **Principal** [CG07, GJOvdD07, MMT11, Rol03]. **principle** [FR04]. **probabilities** [Xu08]. **problem** [BF04, BNSY14, CEM12, CDH$^+$02, CDH$^+$03, CPU10, DHS09, FJS00, Gro10, Hog05, JK96, LŠ08, gLgWhX13, LX14, MS04, MP09b, PL12, RR10, Rea02, Roh09b, ZJW11]. **Problems** [BDL$^+$09, BP07, BGK$^+$11, BLM$^+$13, BLR01, CEG12, CF12, DHHW03, Fer09, Fri12, Loi12, Pul12]. **product** [BS12, BLM$^+$02, CZY02, CLW12, CMS00, FGVR14, HK98, HZ10a, KV14, LTU96, LLYL11, Lim12, Meh06b, Meh06a, MP00, RD12, TL07, TG06, XQ11, YF11, ZZL11]. **Products** [BKNO07, Gre14, GJOvdD07, BE97, ĐT01, Fan11, Hol00, KKK11, KV04, KSH11, KL13, KLL$^+$11, LY11, MRR04, MX99, PTZ14, Sch11a, XZ11, ZX08]. **projection** [KL15]. **projections** [Cof08, Sch12, Spi06]. **projective** [De 10]. **projectors** [TCID11]. **Proof** [Đok02, Ari02, Ero04, Sur00]. **proofs** [CL09b]. **propagation** [Pul12]. **propeller** [LZ14]. **proper** [SPS12b]. **Properties** [LT12, ZCB03, BE12, CF12, Dah07, DN12, DS13, EFP12, GLR03, HK05, HW12, JW01, Kir03, KL14, LLMZ12, MH96, Ref14, Tao11, TT07, XQ11]. **Property** [Bal11, BP07, BNPS08, ES08, ERS09, FG14, MPT00, Mec12, SST04]. **pseudo** [Fot10, HP07a]. **pseudo-Hermitian** [Fot10]. **Pseudomonotonicity** [Tao11]. **pseudospectral** [KL14]. **pseudospectrum** [AGV11]. **purely** [MX08].

Quadratic [Mat08, YFW14, BdP13, HD10, Jin05, VY12]. **quadratric** [El 11]. **quantum**

[AC05, BLdP00]. **quartics** [De 13]. **quasi** [DK08, GL10]. **quasi-commutativity** [DK08]. **quasi-tree** [GL10]. **quasi-unicyclic** [GL10]. **Quasihyponormal** [RD12]. **quaternion** [Son13, WZ08, WZY08, WJ10, fYwW12]. **quaternionic** [CD00, DDL06, Rod07, Rod08a]. **queueing** [GT05]. **quotient** [SZ09]. **Quotients** [Har14].

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LHL14, Liu12, LL12, Rum02, Sch11a, Sne03, Sta13, SH08, SI10, Stu98, Xu10, YH05, Yu10, YSH12, YWZ12, ZzH06, ZZ11, Zha14, Zhu11]. **Spectrally** [AHL+10, GSF09, CKSV05, DOvdD10, Per07]. **Spectrum** [BK97, Gil07b, Maz10, AT06, Bou09, FN98, HS10, Lot07, MK10, SH12]. **splittings** [CP99, JW01, SPS12b, WW01, Woź01]. **spreads** [De 10]. **square** [Ben10, ĐSZ03, HP12a, KKP08, LZFR12, Rod08a]. **squares** [CJ11, HL07, PL12, fYwW12, ZCL10]. **stability** [HM98, HM12b]. **stabilization** [FS98]. **Stable** [Gol08, BCR13, FHR04, Lan99]. **stably** [Rod06]. **stair** [FRM12]. **standard** [Sze07]. **Starlike** [OV10]. **state** [God12]. **states** [LPW14]. **station** [GT05]. **stationary** [Kir03, Kir04a, Kir14, Sch12]. **statistical** [MMW12, TT07]. **stochastic** [Kir04b, Kir09, LZ12, Rea02, Sch12]. **strict** [BLM+13, Rod07]. **strictly** [BPS06]. **Strong** [AG12, BL14b, vdH10, BNPS08, CEH+12, ERS09, GN02, Hog09, KSH11, Roh10]. **Strongly** [Elz03, Lan99, Car12, HR06, RD12, Siv05]. **structural** [ZJW11]. **Structure** [CVV11, KS09, LZFR12, MMD05, Sze05, CMS12, CFP11, HR06, NM02]. **Structure-preserving** [LZFR12]. **Structured** [Dav04, KL13, MMT03, MX99, SW11a, TG06, FKS08, MMX00, MX08]. **structures** [MM12, PLBG12]. **stubborn** [WS12]. **study** [BFH+09, KKP08]. **style** [JPS12]. **subblocks** [ZB10]. **subclasses** [SPS12b]. **Subdirect** [BPS05, BPS06, ZH07]. **subdivided** [CCH+12]. **subdivision** [BBC+14]. **subdivisions** [BBC+09]. **Subdominant** [Kir09, Kir04b]. **subexponential** [BL14b]. **subgraphs** [BLS05, RRCM11]. **subgroups** [Sze07]. **subject** [FK98]. **Submatrices** [BNS14, MNP03, Tia10b]. **submatrix** [ZJW11]. **subnorms** [Gol08]. **subpolytopes** [Mar06]. **subspaces** [Bru02, De 10, FGVR14, MRR04, MT04, Rod08b, RŠ11, Rod14b, Rol03, Sem06]. **substantial** [Tlu07]. **sufficient** [Cio10, Roh09c]. **sum** [BH04]. **sums** [BPS05, BPS06, DMLT03, Dub08, Fot10, Kir09, ZH07]. **sun** [MK10]. **superstars** [Fer09]. **surfaces** [Tlu07, YY13]. **survey** [Roh09c, RF11]. **SVEP** [Mec12]. **Sylvester** [DD11a, HKT14, RR10, WZS09]. **Symmetric** [DKS14, SRMB07, ZJW11, BF04, BFH+09, CT04, CEM12, CF14a, CF14b, CJ11, CKLN14, DHHW03, HK05, JK96, JW12a, KM01, KL13, PES09, PES11, Pul12, RR02, Rea02, RŠ11, RMdAJ10, SW11a, SGL12, SH10, XHZ09, fXyHZ09, YY12, ZCL10, dF10]. **symmetric/ skewsymmetric** [RŠ11]. **symmetrically** [JK11]. **symmetries** [AV06, Rod07]. **symmetry** [DLRM+13]. **symplectic** [Lin13a, MVPS09]. **system** [CJ11, RMZ14, TMR06]. **systems** [BGRV09, BLdP00, BCRS04, Brü09, CM00, Fen01, FFP12, FKS08, FS98, JvdB12, KKP08, Lan99, LS98, Mat03, Mor11, Mor13, NS12, SS08a, Sch11b, SK00, SW11b, WW01]. **Szego** [MR12].

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