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Title word cross-reference

$(2 + 1)$ [TW19]. (A, B) [CL18b]. (C, α, ρ, d) [MLS15]. (C, D) [CL18b]. (p, ν) [DP19a]. (p, q) [DP19b, KL17]. (ψ, ϕ) [RMMRC15]. 0 [PBS15]. $0 < p \leq 1$ [ZY19b]. 1 [CGSS17, CZ16, Guo17, JS17, ML17a, PBS15, WD19, XZN+19, ZJG+15]. $1 + \sqrt{2}$ [AR15c]. 10 [GK18b, GK19a]. 14 [MLSK16]. 2 [BBG19b, CJ19, CROC16, DAM15b, GC15, GLL19, GRS19, HMMV17, KR16, KV16, KV17, LW15, LW17b, LSH+19, PT17a, QDBG18, ST16a, SJ17, SCG18, WW16a, WD19, Wu17]. 2.5 [DFGS16]. $2n$ [DXML19]. $2n - 1$ [Ahn19]. 2×2 [EHTL19]. 3 [DMAS+16, EKKT17, GD17, ID16, MS19a, RABB19, RdSLL16, SDH17, SW17d, TBAH16, VS15b, ZLS+15, Zha19a, ZWZ+18]. 3/2 [CP15]. 4 [ABRS17, ADD+16, BAAA+15, BL17, KBL19, ZMTT19]. 6 [BK19a]. $^{(}R)$ [MPM+17]. $_N$ [VFGPG+18]. A [SW17a, ZCC15]. α [CFG+19, SEV+18]. $\alpha - \psi\varphi$ [SHS+15]. $\alpha\beta$ [ZHL15]. $AXB = C$ [LWJ15]. $AXD - BCX = E$ [CL18b]. B [GWLL18, NS16]. BQ [NS16]. C^0 [BySZ19, CG17b, DFS15, Tho16, YBLH17]. C^1 [AHBC15, BDIR19a, BDIR19b, BAHC17, BK19a, GS18a, GS19, GK18b, HL18a, KB19, ZWL18]. C^2 [BIR17a, BC16, GK19a, HL18a, KV18a, KP19]. $C^{k,\gamma}(\Omega)$ [Sai19]. c_0 [DHAM17]. D [MG15c, KKV19]. Δ [MB15b]. ℓ^1 [LZ18b]. ℓ_1 [DHAM17, ZPL17, ZPL18]. F [FZW19, AY18, ABT16]. $F_1(\cdot)$ [DP19a]. G [Sun16, YL19a, AA18]. G^1

[Hu16, LZ18a, MB15a, ZwKN15]. G^2 [Ahn19, BF18, KV18a, Lu15c, LJ16]. G^3 [LAHB15]. G^n [AH18]. Γ [GLZ18]. ΓQR [GLZ18]. GCROT(m, k) [MLJ16]. H [AR15b, CL19d, HM19b, KR18, KLL18, LA15b, LLV18a, ZW16]. $H(\text{div})$ [JM15, CDF+16]. H^+ [HZ18a]. H_+ [LY18]. $H_0^1(\Omega) \hookrightarrow L^p(\Omega)$ [TSMO17]. hp [BS16]. I [LP15a, TLTJ18, WL17c]. INAR(1) [QLZ19]. J [SB19]. k [ABHVM16, AAB+18b, CCIL18, DTKP17, FPGK19, Kam17, MT17a, MM17, RIK16, RMVA17, Wan17a]. $KAK = A^{s+1}$ [LRT17]. L [BK16, LaT15, LaTG17]. l^1 [EW18]. L^2 [BW19, FS19a, JM15, Men17, EW18]. l^2/l^p [ZY19b]. L^∞ [LZC15]. L^q [NP19]. l_0 [YSL17]. l_1 [PKMM19, ZLAA15]. l_2 [PKMM19]. l_p [CPL+19a]. λ [DP16, RM19]. LDU [dBGMUA18]. LU [FNV17]. M [DLLB17, JMSL19, LLL19b, LHZ15, ZS18b, CSB18, DG16b]. M_1 [CFSS18b]. $\mathbf{R}$ [KMB+18]. $\mathbf{R}^3$ [DD16b, LD15]. $\mathbf{R}^n$ [VS18]. $\mathbf{R}^s$ [NN17]. $\mathbf{Z}_2$ [RFO17]. $\mathcal{O}(1/\sqrt{k})$ [YSL17]. μ [JSC18]. N [BBCP16, BHMT16, WLM16, Ahn19, CCIL18, CSE+19, Ery19, FPGK19, FS19a, Kam17, KPS16, MM17, RIK16, RM19, WH16, Zha18]. ω [DP16]. P [MRMA15, SVAKGR19b, ZCC15, CKL18, DWXO15, Miy18, Yao18]. $p(x)$ [CZ17a]. $p + 3$ [CJSCT18]. P_0 [WYW15]. $P_k Q_l$ [Arm18]. $p \geq 5$ [CJSCT18]. ϕ [FZW19]. ψ [KK19c]. q [BDA17, HWC16a, LJX17, Nat19]. Q_k [ZM16a]. Q_{k-1} [ZM16a]. QR [APS17a, JWZC18, SY19]. R [LaT15, SY18, TBS18, XLS+19]. R^3 [dFLM18]. S [GWLL18, DSZ15]. S^1 [MGMDGVR17]. σ [ÁRS16]. T [BR16, BCDwK17, BLMS19, LCC+15, MM15a, ZDLD15]. θ [GG15, JN18, LY15a, Tan18, YL19a]. U [CQW17]. US [CQW17]. v [KK19c]. ε [XF16]. φ [KS17c]. W [GPHAPR17]. $X + A\bar{X}B = C$ [LH19]. $X - A\hat{X}B = CY + R$ [SC18]. $X - AXB = CY + R$ [SC18]. $x^{-1/2}$ [HMMV17]. $X^p = A + M(B + X^{-1})^{-1}M^*$ [MK17]. Z [CS19, KLL18, LLV18a, LMUZ18].

[**?**]/Kuo:2018:CMC. **-adaptive** [XLS+19]. **-analogue** [KL17]. **-bases** [JSC18]. **-BEM** [BS16]. **-Bézier** [HWC16a, LJX17, LA15b]. **-body** [BHMT16]. **-contractions** [SHS+15]. **-contractive** [RMMRC15]. **-control** [FZW19]. **-convexity** [MLS15]. **-coupled** [FZW19]. **-D** [CROC16, LW15, XZN+19]. **-dimensional** [WW16a]. **-divergence** [AY18]. **-eigenpairs** [CQW17, KLL18, LLV18a]. **-eigenvalue** [LLL19b]. **-eigenvector** [CS19]. **-elliptic** [CL19d]. **-EM** [LY15a, Tan18]. **-equivariant** [RFO17]. **-expectation** [Sun16]. **-extension** [DP19a, DP19b]. **-fixed** [KS17c]. **-fold** [WH16]. **-fractional** [AA18]. **-framework** [YL19a]. **-functions** [AR15b]. **-generalized** [DG16b]. **-Hessenberg** [SB19]. **-homotopic** [BDA17]. **-hypergeometric** [SCG18]. **-inverse** [ML17a]. **-iterated** [KR16]. **-Lanczos** [GLZ18]. **-Laplacian** [CZ17a, CKL18, DWXO15, Yao18]. **-localized** [LaT15, LaTG17]. **-matrices** [LY18]. **-matrix** [DLLB17, HZ18a, LHZ15, ZS18b]. **-Meixner** [MB15b]. **-meshes** [BR16, BLMS19, ZDLD15]. **-method** [YL19a]. **-methods** [GPHAPR17]. **-Nekrasov** [GWLL18]. **-node** [MLSK16]. **-nonbacktracking** [CFG+19]. **-norm** [CPL+19a, TBS18]. **-optimal** [MG15c]. **-out-of-** [CCIL18, Ery19, FPGK19, Kam17, MM17, RIK16]. **-overload** [ÁRS16]. **-parameter** [RABB19]. **-periodic** [SY18]. **-phase** [HMMV17]. **-point** [ABRS17, DXML19, KBL19, ZMTT19]. **-projection** [JM15]. **-record** [Wan17a]. **-regularized** [LZ18b]. **-section** [KPS16]. **-simplices** [KKV19]. **-smooth** [KV18a]. **-space** [ADD+16, BAAA+15]. **-species**

[CSE+19]. **-spline** [LCC+15]. **-splines** [BCDwK17]. **-split** [BK19a, GK18b]. **-splits** [GK19a]. **-stability** [MM15a]. **-stable** [BK16, SW17a, SVAKGR19b]. **-step** [ABHVM16, AAB+18b, RMVA17]. **-step-ahead** [ZJG+15]. **-strict** [DTKP17]. **-SVR** [XF16]. **-symmetries** [RM19]. **-tensor** [ZW16]. **-tensors** [HM19b]. **-th** [Miy18, Zha18]. **-th-order** [BBCP16]. **-times** [SDH17]. **-timescales** [Nat19]. **-tridiagonal** [MT17a]. **-type** [JMSL19, LMUZ18, WLM16]. **-wave** [ABT16]. **-widths** [FS19a].

2 [SPG+16b]. **2015** [HLV16]. **2017** [CPRS19, DLY18]. **260** [Beh16]. **266** [ÁD15]. **271** [CDKN15]. **278** [DNL16]. **280** [AB16]. **283** [BP17a]. **2D** [GCTGC16].

305 [SW16a]. **318** [LGB18]. **319** [MHY21, ZPL18]. **325** [JSW18b]. **336** [CPL+19b]. **340** [Chr19]. **343** [GMSR21]. **346** [HWXC19b]. **354** [GAA21]. **358** [BKMO20]. **3rd** [LPW+19].

4th [AN17b].

A-posteriori [LC17b]. **a.s** [ABT17]. **Abel** [GV17, PSK16]. **ability** [ICMPG16]. **absence** [KElY16]. **absolute** [AHM18, IIA15, LLW18, ME18, ZL18a]. **absorbing** [AMP18, HZ17a]. **Accelerated** [And17, NRV18, CTZK18, LC18, LSZB17, MS19a, Ou18, RP16b, Wan18c, ZHWS16, ZSW16, ZSZ17]. **Accelerating** [AdGvG19, EW18, HVV15, HH19b, Wan18f, Wan18g]. **Acceleration** [GG17a, HSS19, GHV19, SX18, Zha15a]. **acceptable** [WXY17]. **accessibility** [HVM18]. **account** [SS18b]. **accounts** [XDZZ19]. **accretive** [KKP+19]. **Accuracy** [LW15, LRKV16, LW17b, ASKG18, Dos19, FFKP17, HMDSR19, MPM+17, MJS19, SRH17, TYS17, VF17, Zak19, ZHC19]. **Accuracy-Conserving** [LRKV16]. **Accurate** [Hua19, MM19, Moh17, PD17, AIS+17b, CL19a, CXZ19, DIS+18, DIP+19, DMS19, JB18, KT15, KK17, MV16c, OOO15, Sey18, SMS18]. **ACOMEN** [SDG15]. **Acoustic** [TW19, CROC16, DMCC+18, GM16a, GDCK19, LLL19a, SFGJR+16]. **acoustics** [CD16a, GYX17, KM18, Kre19, Tun18]. **across** [BN19]. **acting** [Gor16]. **actions** [Lu18]. **active** [GDC15b]. **activity** [FCJ16]. **actuarial** [DSDV15, PT17b]. **Adaptation** [ABT16, BBG19b]. **adapted** [HWH19b, IDGH18]. **Adaptive** [AHP19, Arà19, BBD16, CS18a, CL19d, DKL+18, HWH19a, HCSC16, Kaw17, KRR18, LC15a, LAVMA18, MRVV16, MD18, PB15, SRBD18, WCS17, XZ18, ZNG15, AN17a, AN19, And16, And17, BTKM15, BJK19, Bie17, BG15, BN15, CPZ19, GKQW17, GZDC19, Gia18, GD17, JN18, KW16, KCX17, LWW17, LW15, LL16a, LW17b, LC15b, LWZ17, LN17, LN19, LSP18, MAK19, MHAA15, Mat18, MM15c, NAK17, Ou18, PSW18, Pol16, Prz19, RVC19, SGL17, SYZ19, SN19, WLLC18, WXJ19, XLS+19, YN18, xZWlC15]. **adaptivity** [CLP16]. **Add** [HY19a]. **Add-sub** [HY19a]. **addends** [ZF15]. **Addendum** [CDKN15]. **Additive** [LN19, AY19, JC15, LWZ+15, ZZHS17]. **adequate** [FH16]. **ADI** [DM17b, HHEG17, ZZW16]. **Adiabatic** [LTY17]. **adjoint** [AZ18, CMRP17, HL15, JZ18]. **adjoints** [Jan17a]. **adjusted** [TLTJ18]. **ADMM** [CLZL18, LSH18a, WS17]. **Adomian** [NAM18]. **adsorption** [CFMN15]. **Advanced** [ZDFF18, GC18, SDG15]. **advances** [KKS16]. **advection** [CDP17, CM16, CLA19, CEJ18, CNQR+18, Dun17, GHM18, GPHAPR15, GPHAPR17, LCL16, MDAP19, SB16]. **advection-diffusion** [CLA19, CNQR+18].

advection-reaction [SB16]. **aerodynamic** [VG15]. **aerodynamics** [GGC+18]. **aesthetic** [LX16c]. **AFC** [SAT15]. **AFC-stabilized** [SAT15]. **affected** [VFN18]. **Affine** [CPL+18, CPL+19b, BW17, Fer15, HLBP15, HJS19, HZ17c, RR16]. **Agarwal** [AAKT19, DLY18]. **age** [SS18d, Wan18h]. **agent** [MO18a]. **aggregate** [NCJ16]. **Aggregated** [TK15]. **aggregation** [AL18, AGM19, SKBT16, pWmGkY+19, XZ18]. **agricultural** [NY19]. **ahead** [ZJG+15]. **AHP** [BDGIPG15]. **AIDS** [KJ19]. **air** [AVGCMVM17, CFMN15, SPG+16a, SPG+16b]. **air-water** [CFMN15]. **aircraft** [OLRPdCJ19, Xu17]. **airfoil** [FFP16]. **airfoils** [DS19]. **Airy** [Kan18, Xia19]. **algebra** [RANG15]. **Algebraic** [ELL+19, LZA19, TDA18, AMRX17, ALV19, ATV15, BPD15b, wCW15a, CH19c, CGvA+15, CPRS19, Els15, FwC17, GMG19, GLSW16, GLSW18, HMT+17, HP17, KL15, LDDF18, LSW19, LC18, LSH+18b, Mär17, Miy17, Miy19, NSW15, PB15, Pis15, SH18, Wan18b, WGZ15, WZ18, pWmGkY+19, YFwC19, ZN19]. **algebras** [CNT17, CRR19, FFN+17, LSS19]. **Algorithm** [PBS15, ACDT19, And16, AGR+15b, AJY18, BM17a, BW16, BW17, BGNGR+17, BPP17, CZ19a, CM16, CDZ16, Che16b, CSXY19, wCW15a, CSB18, CPL+19a, DIS+18, DIP+19, DGH15, DY15, DGN19, EK19, FZ15, FP16a, FWW+18, GH16a, GH19a, GC15, GGBTP17, GH17a, GW17, GJSC18, GHL18, Haj19, HLG+17, HS19, HX15, HFMM16, HZ19, HZ17c, JHJB17, JCC15, JSL15, JWZC18, JGTB15, KSDM16, KDW17a, KKW16, KCX17, KLC17, KMLB17, KHS+18, LX15a, LQZ16, LL16a, LRL+18, LDL+19, LZ16c, LX16b, LF18, LOAGBR15, LJ16, MCLW16, MT16a, MR19, MG15c, NSM16, NY19, NGGFM17, OZ18, OGR19, PSW18, PW17, PST18, RDRM15, RVC19, RMK19, Sad19, SGK16, Sar19, SW16a, SW16b, Sey18, SHW19, SNY19, SQRE16, SCP19, SBCJ18, TV18, TC19, VRBS19, WGLV16, WS17, WSL17, WZBM18, WXJ19, WCW19, WLC+18, pWmGkY+19, Xu15, Xu17, XY18a, XY18b]. **algorithm** [YSCY17, YZ15c, YWY19, ZPL17, ZPL18, ZCFW17, ZHS18, ZCC15, ZL17a, ZLAA15, dBAAA15, dBGMUA18]. **Algorithmic** [CBP18, APS15a, Els15, HWH19b, WL17c]. **Algorithms** [KKP+19, LRT17, AIS+17b, And17, AJ18, CQW17, CYY+16, CJSCT18, DSA15, DK16, DFS15, GLdCJS17, GLZ18, HZ18a, JL17, JCH17, KPS16, Kow17, LY15b, LWZZ16, LZW18, LH18, LSH18a, LLHO18, LW19b, Lu15a, LC16, MVQDdR+18, MPM+17, NC16, OGR17a, OGR17b, LGB18, RF18, SGK16, SJ15, SRH17, SM17, TH18, Wu16b, YZZL19, Yao18, Yin19, ZDGM17]. **alignment** [WXJ19]. **Allee** [BYYV16]. **Allen** [JK18, LHY19, SJL16a]. **allocation** [ÁRS16, CDRY18, Iid15]. **allowing** [HHZ18]. **alloy** [ID18]. **Almost** [APS15a, CW15a, LWZ19a, Tan18, APS15b, APS17b, APS17a, APS19a, APS19b, EC18, KP19, Mil15]. **along** [GKN18]. **Alpert** [Sar19]. **Alpha** [DNK19, NKD+19]. **Alternating** [LDG19, LQ19, CLZS19, CSXY19, HH19b, MV16a, Sad19, YSL17, ZZZ15, GC15, LLL19a]. **Alternating-Direction-Implicit** [GC15]. **Alternation** [Har18]. **alternative** [EDO19, MGMDGVR17, dBAAA15]. **ambiguity** [LWZ19b]. **American** [CEJ16, CEJV16, FNV17, JHK17, JYK16, KDB17, LDK17, MNFS18, ZY18]. **AMF** [GPHAPR15]. **AMGe** [lCCVV18]. **Ampère** [YX19]. **analogue** [Had15, KL17]. **Analysis** [AM19, ÁD15, ACCF19, BGI18, BCVV18, DMR19, ES18, DD18b, FM17, FMMQ19, GRS19, GG17b, Güc17, HJL18, JY19, Kad17, EP18, LX16a, MHV17, Mir15, OZ17, SJ18, VG17, WLW19, YMGA19, AALMLM19, AAB18a, AG16a, AJR15, AK18, AW19a,

AZ17, AMZ19, AG19, AJ17, AFM19, BM17a, BM18, BJM16, BDA17, BBGG19, Ber15, BLM16, BEMA16, CDP19, CD16a, CRR16, CLA19, CV17, wCW15a, CST+16, CEJV16, CFMN15, CNQR+18, CPRS19, DDP16, DVS15, DMMSK17, DTKP17, DGSM15, DM17a, DLM17, DF16b, DSN17, EJJ15, FE16, FSNS16, Fer15, GHM18, GZD+19, GMSR18, GMSR21, GMW18, GAA16, GM19, GHL19, GSRJ18, HH19a, HLG+17, HH16, HS18c, HM19a, HH18d, ID18, ID16, Jin16, JLCZ17, KS18, KV19a, KDB18, KMD+16, KJ19, KElY16, KPW17, KK15, KAS18, Lad15, LD19a, LD19b]. **analysis** [LA15a, LW15, LZC15, LHY16, LSZ16, LSLZ17, LYS19, LWJ15, LHZ15, LWS16, LWTQ17, LSBL18a, LSBL18b, Luo18, MJ18a, MJ18b, MMO15, MS17a, MD18, MYM16, Mar19b, Mej17, MLSK16, MS17e, Ngo19b, NTPVNTDT15, OE19, Par15, PCJ18b, PI19, QDY+19, RNM16, RCN17, RQ16, RF18, SS18c, SNY19, SP17, SM15a, Sto18, SSZL16, SW17d, TA17, TDA18, Tho16, UG18, Ver16, VF17, WCS17, WCSL15, WW16a, WG18, WXY17, vtWvdHvdVV16, XGH18, XWWI18, XY19, XY18a, XY18b, XLS+19, XHH+19, YZPL18, YSG18, YX19, YZZ19, YAA19, YJBM19, ZNG15, yZ17, ZCZM17, ZNS18, ZL19, ZP19, ZS18c, ZWWW19, ZY19b, ZLAA15, ZC16b, ZN19, dSBV16, ÁD14]. **Analytic** [Hac18, KT15, AGR15a, GLR16, GD18, KSDM16, KSW19, RP16b, TBS18, XC18]. **Analytical** [AFdOdS15, BBB17c, FNdO15, MMS19, STZ16, TGSS17, DMCC+18, HA18, HK18, KDW17b, KDW17a, LOAGBR15, SLA19, SPM15, WLM16, You19]. **Analytically** [ZL15c]. **analyze** [GH17b]. **analyzing** [HMKCR19]. **angiogenesis** [ZKRL15]. **angle** [AM17a, KKV19]. **angles** [SM15b]. **angular** [DMAS+16, LP19]. **Anisotropic** [BBG19b, NLG15, CSS19, CV19, CRSV19, DKL+18, Gia18, RP15]. **anisotropic-adaptive** [Gia18]. **Annual** [LPW+19]. **annuity** [FJD17]. **annular** [BBQ18, SLH15]. **anomalies** [ACMT17a, OCU17]. **Anomalous** [KLM18, CCW17]. **answers** [Mär17]. **Ant** [Xu17, FP16a]. **ant-local** [FP16a]. **anti** [Bou18, GdLT17, PR15]. **anti-diffusion** [GdLT17]. **anti-diffusive** [Bou18]. **anti-Gauss** [PR15]. **antithetics** [God16]. **Antwerp** [SPG+16a]. **any** [CT15]. **AOR** [Had15, ZWT19]. **aortic** [LS17a]. **aperture** [MA19a, PGD+18]. **appearing** [FM19b]. **Appell** [DP19a, KR16]. **Appl** [ÁD15, AB16, Beh16, BP17a, BKMO20, Chr19, CDKN15, CPL+19b, DNL16, GMSR21, GAA21, JSW18b, MHY21, LGB18, RdSMO18, SW16a, TGJ19, ZPL18]. **Application** [CDH+17, DI15, GM16a, GTC16, GRVC15, GKPS19, KHS+18, KBL19, ML17b, MLW19, MS17c, SPG+16a, SB18, Xu15, ZST15, AdHR17, AHKT15, ABB+15, AB16, BCFN16, BP17a, BDG15, BDSB16, CFSS18a, CZ15, CT16, CDZ16, CKB17, CTAT19, EBJS19, FGF19, GMSRP16, GAA19, GAA21, Güc17, HH19a, HX15, HHEG17, HXC19, HJL18, Kam16a, KKP+19, LaTG17, LMUZ18, LZL+18a, LLV18b, Luo18, ML18, Mar19a, MMRS15, MT19, NP19, Pap16a, PAC15, PBMJC18, PN16, QLT+17, RVA15, Sai19, SHS+15, SE18, ST16b, STS15, SCP19, TJA18, Uda18, WZ16, WS18, Xie15, XY16, Yao18, YL18d, ZZ19, ZCC15, ZZ18, SM16, VZDV18]. **Applications** [BBB17b, DLY18, IAAW18, SMS18, ADG19, AJR15, ABEHV16, AMS17, AFdOdS15, BDF15, BCNP15, CFR18, CMM17, CYY+16, CLW17, CLA19, CAO+19, CNQRR17, Dzh18, ELL+19, FZW19, FLN16, FM19b, GT17, Hag15, Hai17, HWZ19, JCC15, JZ18, JSC18, JKL+15, KGL19, KDB18, KKW16, KLK16a, KT15, KS17c, KCNH16, LaT15, LSS19, Lu15b, MA19b, MG17, NKD+19, NW19, NN19, OAS19, PT17b, QL18, RRM18, RdSMO17, RdSMO18, TLTJ18, VDS15,

WSW15, WGLV16, Xia19, XHH+19, Yan17, YCF18, YZZL19, YMGA19, ZDGM17]. **Applied** [AJ18, BEJR17, Bog16, DVJ18, LD19a, LD19b, LZS15, MG15b, PG16, SPM15, VG17, Wan18f, ZHH+19]. **Applying** [Mit15b, FFKP17, MH16a]. **approach** [ALS19, AW19a, BM18, BD19, BB18, BKLR16, BS19, BLV19, BBG19b, BS15, BAI17, COP17, CCJ16, CCJ18, CP18, CEJ16, CH19c, Cou19, DWS+18, DF16b, DT17, Dzh16, DD17, ERPD18, FE16, FM18b, FJLB18, FLMS16, GLR16, GGG19, GYS17, GX17, Gun18, GSRJ18, HYF18, HYQ+18, HCA+18, HJ17a, HAH17, HK18, HY19b, HKZZ15, IANS15, JK19, KMRS16, KC17, KGES19, KDW17b, KV18b, KS17c, LDK17, MDT16, MD19, MD18, Mar19b, Mat18, MS15a, MB17, NCQ+18, NMKK19, OD17, PR16, PGRC18a, RM17, RMVA17, RW16, RMA19, SA17, SK15, SV16b, SRA+15, TLL16, VG17, VZDV18, VARC17, WZBM18, WLZS18, XLS+19, YGS18, ZCFW17, Zha17a, ZS17c]. **approaches** [ABB18, CM19b, GT17, HA18, HA19, LWW17, SZ18]. **Approaching** [AGM19]. **approximants** [BRZ15, LP15a, Tra15, dlCYC15]. **Approximate** [FFP16, GLTW15, MA18, WMI16, AD18, AvG16, BWS17, CPB19, EHTL19, GLP16, GT17, HHKR15, LZ18c, LDW18, LL18, MDG17a, MDGVR17, Miy15, Prz19, Qui15, RdSMO17, RdSMO18, YCX19, ZST15, ZWGL18]. **approximately** [HAH17]. **Approximating** [AALMLM18, JGAFAL19, AH18, CT17b, HG17, HK19, OZ18, ZMTT19]. **Approximation** [DLS17, FM18b, GR19, KPRA19, KtTBK18, MOY18, MH16a, RRW17, AKR18, Ahn19, AEKGP19, AT17, AM19, BDFM19, BHRR18, BW19, BLP17, BCDwK17, CZ19a, Che16a, lCCVV18, CPZ19, CKB17, Cro15, CC15, DVA19, DP17b, DM17a, Din16, DSA16, EL19, FP18, FJLB18, Fuk15, GS18b, GH17a, GH19b, GS15b, GO15, GG17b, Han15, HS18a, HMMV17, HS18b, HS19, HWT15, Hu16, HXC19, IAAW18, JW17, Kaz18, KCX17, KT15, LP15b, LL16b, LCL16, LZL16, LWXF18, LZ15, LLW17, LLG+18, LX16c, Luo18, MJ18a, MRVV16, MOPP18, Mil16, MKKV19, Mir15, MR15, MP17b, NT15, NSYX17, NS18, NH19, PPM16, PCSR19, PI19, Prz15, RS18, RR16, SS19a, Sey18, SSW19, SWL15, ST16b, Skr17, SI16, VŽ19, VFGPG+18, WGLV16, Wol17, WAGVRB19, Yam17, YH18a, Zag18, Zha15b, ZqZwZ15, ZJG+15, Zha19b]. **approximation** [ZZHS17, Zyg17]. **Approximations** [YZY17, AH16c, AC17b, BK15a, CFR18, CLC16, CZ16, DBX19, DIP+19, El 17, FJD17, GD16, Gia18, JM15, LY15a, LC15a, LZC15, LRKV16, LLY19, LFKG16, MPH18, Mir16, MG17, NCJ16, NR19, OP19, PBP16, QWS15, RABB19, SW17c, SH15, Tho16, YZZL19, ZWH15a]. **AQMEII** [SPG+16b]. **AQMEII-2** [SPG+16b]. **aquifer** [LCX18]. **arbitrage** [Rom18]. **arbitrarily** [NR15]. **Arbitrary** [BVZ17, AM17a, CDE18, CT17b, CJSCT18, DFS15, FP18, Hu16, HLMS19, KTT16, RVZ15, ZML16]. **arbitrary-dimensional** [CDE18]. **arc** [Zyg17]. **architectures** [GDC15a, LRL+18]. **arcs** [AH18, VŽ19, Zag18]. **Area** [MN19b, Zag18]. **Area-preserving** [MN19b]. **areas** [FAVGC+15]. **arguments** [LL15, LSL17, LSL18, Mil16, Zha16]. **ARIMA** [OLRPdCJ19]. **arising** [ALS19, BKMO19, BKMO20, Ceb17, ID18, KDB17, LLSZ17, MFWK18, RMA19, SR16a, Sch18, yZLX15]. **arithmetic** [HOM17]. **ARKN** [LSW19]. **Arnoldi** [AHJ17, GW17, HLLY19, JL15, RS18]. **Arrival** [GMSR18, GMSR21]. **Arrow** [CHS17]. **art** [LSS19]. **artificial** [AB18a, NGGFM17, TDA18]. **Asian** [HOM17, MZ16, Sho18, dSBV16]. **Askey** [Luo18]. **Aspects** [CBP18, TAT18].

Assessing [BBM15]. **Assessment** [BG15, WL17c, Wu18, WH19]. **asset** [FEC18, PX17]. **asset-liability** [PX17]. **assimilation** [JBFS15, NPR18, RS16]. **assistance** [MHY17, MHY21]. **assisted** [KLS19, NRV18]. **associated** [BHN15b, CL18b, CGPR16, DXML19, HMH18, Hua19, KSR15, LRT17, MDT16, Mej17, MVPN15]. **associative** [LSS19]. **assumption** [BS17c, Rom18]. **assumptions** [LLY19]. **astrophysics** [RMA19]. **asymmetric** [ALMLM17, HMKCR19, Pap16a]. **Asymptotes** [BPD15a]. **Asymptotic** [FL16, GQM16, GWY17, KS18, KDB17, Lan18, LL15, MMMMB16, MMZ19, OLPT16, PHCG16, RP17, ÁAM15, BP17b, DIJ16, LCX18, MFX15, MCLW16, MYM16, NSYX17, PA19, Prz15, YZJC15]. **Asymptotical** [Ogu17]. **Asymptotically** [AN17b]. **Asymptotics** [FF15, GZH19]. **atomization** [SRRJ16]. **attempt** [DBdLdM$^+$19]. **attraction** [HH18a]. **Attractivity** [AL16, FL23, LNP17]. **Attractors** [GN18]. **Attribute** [CMRP17]. **Augmented** [PKMM19, FLZ19, GxLlW15, HWH19b, Mia18, XYZ15]. **August** [WWST18]. **automatic** [SV19]. **automorphisms** [PDB15]. **automotive** [DMCC$^+$18, GCTGC16]. **autonomous** [BBCP16, BBC$^+$18, CCJ18, CNQRR18, Das18, GLSW16]. **autoregressive** [FF15, HYF18, ZLPF19]. **Auxiliary** [EHV19, MRMA17]. **availability** [CCIL18]. **AVaR** [Ugu17]. **average** [CL18a, HWT15, Xie15, YZZL19, ZqZwZ15]. **averaged** [CH17a, DRS16, DRST19, JRT17]. **averaging** [BL17, CSW19, DS17b, GMCD15]. **Avoiding** [AMCR19, CR17]. **aware** [SZM$^+$18]. **axis** [CM18b]. **axisymmetric** [KH18, Zha19b]. **Azzalini** [DPN15].

B

[AZ18, BDGO15, FWW$^+$18, GK18b, HH15, Kre19, KB16, LLG$^+$18, LM17b, LZ19, Maz18, SuSR16, US19, YW15a, ZTGZ18, ZD19]. **B-spline** [AZ18, FWW$^+$18, GK18b, Kre19, KB16, LLG$^+$18, LM17b, LZ19, Maz18, YW15a, ZTGZ18, ZD19]. **B-Splines** [HH15, BDGO15, SuSR16, US19]. **B.C** [GRVC15]. **background** [CNJM18, ZB18]. **backscattering** [BTKM15]. **backup** [Nke18a]. **Backward** [APS17b, CZ19a, CW15a, FP16b, HK07, HRO16, KH18, Liu17, MKKV19, Reu16a, SWZW15, Sun16, TGJ19, THL$^+$17, WWZ15]. **Baja** [TLL16]. **Bakhvalov** [BZ16a]. **Bakhvalov-type** [BZ16a]. **balance** [AL18, BP17b, SKBT16]. **balanced** [AHT18, CL19b, KD19, LSG18]. **balancing** [NC16]. **Baleanu** [DLY18]. **ball** [FWW$^+$18, NP15]. **ballistic** [KLM18]. **BAM** [AYSE19]. **Banach** [AMB19, ABEHV16, AM15b, BKLR15, CHVRT15, Fer15, HSS19, KGMS18, MP17a, WWH19, Yao16]. **Band** [Elo19, LC17a]. **bandlimited** [Che16b]. **bands** [ZZW18]. **Bandwidth** [HB16, Iid15]. **bang** [BAO$^+$16]. **bang-singular-bang** [BAO$^+$16]. **banks** [UPD$^+$15]. **bar** [AMM19]. **Barenblatt** [GKBG17]. **Barrier** [HLL15, SCG18, BRA16, DYD19, GB18, KYY15, MB17, SM18]. **Barycentric** [LHPZ18, AHP19, CH19b, VS18]. **Based** [Lu18, ABG17, AL18, AH19, AGM19, AdHR17, APYW19, And17, ABP15, ACEJ18, AALZ15, AHKT15, BRW16, BM18, BBH$^+$17, BSLL18, BDA17, BD19, BGII15a, BGII15b, BIR17a, BIJM$^+$19, BOF$^+$16, BKLR16, BBG19b, BZ19b, CCY18, CFSS18a, CG17a, CCIL18, CDF$^+$16, CLZL18, CDZ16, CCT19, CH19a, CDKN14, CDKN15, CDHP17, CPL$^+$19a, DDG$^+$16, DF15, DP17b, DIP$^+$19, DAM15a, DGH15, DWS$^+$18, DLM16b, DGM16a, DY19, DS17b, Els15, FMC$^+$18, FP18, GLR16, GC15, GK19a, GX17, GGC15, Gun18, GUB15, Haj19, HM16, HS18a, HMMV17, HRS16, HWT15, HL18b, HSAA19,

HR16, HZ19, HXC19, HG19, HOM17, HZ17b, HH19b, Iid15, ID18, IAMCI18, JC18, JMSL19, JL19b, JA17, KSDM16, KL17, KV15, KBL19, KK17, KB16, LBL15, LAVMA18, LQZ16, LWZZ16, LLCG16, LY18, LXD+18, LSG18, LSH18a, LHLL18, LSDY19, LCZ18, LWC17, LSBL18a, LSL15]. **based** [LYG15, MTCC15, MDT16, MT16a, MD18, MP15, MB15a, MAS19, Mu19b, NCJ16, NS19, NN18a, NSM16, NGGFM17, NDH16, NC16, OH18, OD17, OG16, PKMM19, PD19, PG19, PBMJC18, PBJCM19, PDO19, QLZ19, QWZ18, RNPK15, RDRM15, RM17, RCPA15, RF18, RRS19, Rót15, SE16, Sar19, SV19, SPCSA16, SZZ+16, SQRE16, SP17, SJL16b, SM15a, SV16a, SW17c, SX18, TXFH18, THC+18, VFG18, WCSL15, WSL17, WWM17, WCW18, WZS19, Wu16a, WL16, Wu18, WH19, pWmGkY+19, Xie15, XHZ17, XF16, Xu17, YY16, YL18a, YHZ18, YZZL19, YN18, YC19, YP17, YLZG18, ZNG15, ZW16, ZG17, ZS18b, ZJQW18, ZLPF19, ZL15b, ZHL15, ZZ15, vSV15, vV16, BKK18, DMP19, DVJ18, LFKG16, NGGFM16]. **bases** [CDF+16, Che18, GS15a, JSC18, Maz18, Pap16b]. **basic** [PST18]. **basins** [HH18a]. **Basis** [NRV18, AD18, BM17a, BDSB16, CH18, CL15, GK18b, HW18a, Jeb19, JL16b, KV18a, KDB18, Lu15b, LX17, MAK19, PPM16, TLFC18, UPD+15, WWM17, YBC+16, Zha17a, ZHL15]. **basket** [ST16b, SX18]. **batch** [WXJ19]. **bathtub** [DNK19]. **bathtub-shaped** [DNK19]. **batteries** [FFKP17, VMM18]. **Baxter** [ZCD17]. **Baxter-like** [ZCD17]. **Bay** [GRVC15]. **Bayes** [TK15, WS16]. **Bayesian** [ABB18, BMLR15, CG19, GMSRP16, GT17, Gun19, HYF18, JO17, LSZB17, NMKK19, SMTdF18, SM19b, ZNS18]. **BCR** [Haj19]. **BDDC** [KCX17, PSW18]. **BDF** [Jan17a]. **BDF2** [CLC18a]. **BDF2-FEM** [CLC18a]. **BE** [ZCFW17]. **beam** [CLS18, RL18]. **beams** [AG16a, Mar19b, Sto18]. **beams/rings** [AG16a]. **bed** [MFK+15, OSC15]. **bee** [NGGFM17]. **behavior** [ALS19, Ahn15, DQIM18, DdSL16, FJD17, LZ17b, MMMMB16, SAA18, YZJC15]. **behaviors** [You19]. **Behaviour** [AHS19, GMW18]. **behind** [GKN18]. **being** [SSCM18]. **Bell** [Orr19]. **BEM** [ADG19, AMP15, BS16, GM16a, ZLS+15]. **BEMs** [CFSS18a]. **benchmark** [ZG17]. **benchmarks** [LW15]. **benefit** [ZJQW18]. **benefits** [FJD17]. **Benjamin** [DAM15b, Güc17]. **Berenger** [HJL18]. **Bernoulli** [Baz15, CCNQ+17, MLW19, Qi19, ROB17]. **Bernstein** [Beh16, BM18, BDSB16, BWS17, EDO19, GS15a, HS17b, JBT16, KL17, Lu15b, LX17, ZHL15]. **Bernstein-like** [ZHL15]. **Besov** [ABH19]. **Bessel** [Ceb17, CY18b, CJV17, LZZL17, Xia19, XM16, ZuI17]. **best** [BIR17a, HMMV17, LLW17, TSMO17]. **Bethe** [GLZ18]. **Betti** [LDDF18]. **between** [BPD15b, CL18b, CJT17, CBMPP15, FWW+18, HLV+15, JC18, MSZ18, OSMZ18, PDB15, QL19, Tru19]. **Bézier** [Ahn19, BDSB16, CFJMVG16, GS15a, GW16, HWC16a, HG17, HFMM16, LA15a, LA15b, LZ18a, Lu15a, LX17, LJX17, SR15, SJ15, WZH19, YW15b, KL17, Hu16, LJ16]. **Bezout** [WGZ15]. **Bezoutians** [DTB17]. **BFGS** [And17, And18, YN18, YSW+18]. **Bhattacharya** [MDGVR17, MDAP19]. **Bi** [RFO17, CD16b, CMTV17, OGR17a, LGB18, ZZG+19]. **Bi-center** [RFO17]. **bi-diagonal** [ZZG+19]. **bi-object** [CD16b]. **bi-parametric** [CMTV17, OGR17a, LGB18]. **biangular** [ZwKN15]. **biased** [GK19b, LSZ16]. **BiCGCR2** [GHC16]. **bicubic** [ZDLD15]. **bidiagonalization** [BEJR17, WGLV16]. **Bidomain** [OS15, CLW17, SZ16]. **bifurcation** [SE18, You19]. **big** [HLLY19, Lu18]. **biharmonic**

[CG17b, HH15]. **bilevel** [ESAE18]. **bilinear** [ABB17, ABG17, DLMZ19, KV18a, NSYX17]. **bilinear-like** [KV18a]. **binary** [DY19, OGR17b, ZCS+19]. **binary-tree** [ZCS+19]. **binomial** [COGD19, Ery16, WZS19, WS16]. **biochemical** [Ver16]. **biodegradation** [AAB18a]. **bioheat** [RdSLL16]. **Biological** [SS18d, JCC18, SR16b]. **biomass** [NGGL+19]. **biomolecular** [DXZ18]. **Biorthogonal** [AJR15, AHL17, MT19]. **Biot** [CCX18, GLMT16, HRGZ17]. **bipolar** [CLM19]. **biquadratic** [HH15, ZDLD15]. **Birational** [NSW15, PDB15]. **Birkhoff** [CL15, DD16a]. **birth** [You19, vD15]. **birth-death** [vD15]. **bistability** [TLE19]. **Bivariate** [AGR+15b, Guo18, GH17a, GKM18, GUB15, Har18, JZS16, LWZ19a, LLG+18, QL18, QWZ18, RN17, SKBT16, TJA18, ZWL18]. **Black** [KV18b, JHK17, KDB17, KV16, KV17]. **bladder** [GMSRP16]. **Blaschke** [NT15]. **Blind** [DTB17, LLD18]. **Bloch** [LMM19, QLT+17]. **Block** [BCMP16, HS17b, JM18, JL17, XHZ17, ZS18b, ATG18, AALZ15, AKM18, Beh16, BBC17, BJK19, Byl18, CLZL18, CLZS19, CLW17, DB15, FV17, GDCK19, GW19, HL15, KBG17, LZ18c, LZZ19, LCX18, MLJ16, MAS19, NE17, NZL17, RMVA17, SHCJ19, WS17, XMW+15, yZLX15, ZZG+19, ZZZ15, xZWlC15, XY19]. **block-centered** [LCX18]. **block-pulse** [MAS19, XY19]. **block-Toeplitz** [NZL17]. **Block-tridiagonal** [BCMP16]. **block-wise** [GDCK19]. **blocks** [NZL17, NR15]. **blood** [KAM16b]. **blow** [Mus17, TMS+17, YZZ19]. **blow-up** [Mus17, TMS+17, YZZ19]. **blur** [Lu16]. **BMU** [JC18]. **BNS** [VL19]. **Board** [Ano18b, Ano18c, Ano18d, Ano18e, Ano18a, Ano18f, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18g, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r]. **bodies** [OGR19, VMR17]. **body** [AMP15, BHMT16, OCU17, OCU18, RL18, SKB15]. **Boltzmann** [COdSR16, VX19, XY16]. **Bona** [DAM15b, Güc17]. **Bond** [NM17, FNV17, Wu19]. **bond-pricing** [Wu19]. **Bone** [JC18, BCS17, CCD16, DMAS+16, JC19]. **Boolean** [ADMV19, LZA19, LZL+18b]. **bordered** [JSL15, MT17a]. **Borsa** [DI15]. **Bose** [Bad18]. **both** [WD19]. **bound** [Akh19, HZ17c, LXL15, LXL16, LSLZ17, Miy15, NTPVNTDT15, Tru19, WWZ15, WGZ15]. **boundaries** [CLZW19, LRKV16, LZ18a, LLZ18, XDW18]. **Boundary** [BKMS18a, BGS19, ZM15a, ZHC19, AAA15, ABH19, ALS19, AS18, AB18a, AL19a, ABL+19, AK18, AZ18, AT17, AMP18, AMCR19, AR19, AD18, AC17b, AP18, BR15a, BBQ18, BKLR15, Bog16, BySZ19, CHX18, CHR+15, CT17a, CS18b, CV19, CGSS17, CN16, DI19, DWXO15, DGM16a, DYZ18, DM16b, DD18b, Dzh16, Dzh18, EJJ15, FLZ19, FGF19, GHB17, GDQ17, GD17, GS15b, GS15c, GHZ+15, GZZZ16, HHLS18, HA19, HZ17a, IN16, JAN17b, JLLZ16, JLCZ17, KM18, KCK18, KDW17a, KS16, KKK16, KtTBK18, LD19a, LD19b, LBL15, LSZ16, LC17a, LW17a, LLSZ17, LX16b, LM17b, MD19, Mat18, NXLX18, PW16, PRP19, PTV17, PCJ17, PCJ18a, PCJ18b, PCSR19, QM15, QDBG18, RC19, RVC19, RW16, RT18a, RMK19, SAA18, SDH17, SYZ19, SGG19, SS19b, Slo15, SLH15, SVL19, Sta18, SI16, TV16b]. **boundary** [VCL+19, Vis15, WXW15, WPA+18, WZS18a, WW16b, vtWvdHvdVV16, Xia17, YW15a, ZL15a, ZH16, ZLZ17, vV16, BKMS18b]. **boundary-value** [DM16b, KtTBK18]. **Bounded** [AAC17, AKHSU18, BDFM19, MDG17b, MDG17a, MDGVR17, TSMO17]. **Boundedness** [GDM16, MSH15, Wan17b].

Bounds [LDDF18, BLMS19, CJP17, DS15b, GWLL18, GYS17, GAB17, IN16, KVO18, LLV18a, Mir16, TBS18, Vej18]. **Boussinesq** [OZ17]. **box** [GW16, RKB16, XY16]. **BPX** [OS15]. **BQN** [HLBP15]. **branch** [Kow17]. **branched** [BFMP19]. **Bratu** [JM18, TBR16, TP19]. **Bratu-type** [TP19]. **breakdowns** [SB19]. **Brezzi** [LSD15]. **brick** [MLSK16]. **bridge** [EM15, SM16]. **Brinkman** [KSW19, AVB17, CJCDLL19, ES18, GLS15, HWZ18a, KLM17, LT18, WZZ16]. **Brownian** [Lev18, Sho18]. **Broyden** [Fan15]. **Broyden-like** [Fan15]. **BSDEs** [DL16b]. **bubble** [ZNG15]. **bubble-type** [ZNG15]. **Buchberger** [BW17]. **Buckley** [Che19a]. **Buckling** [Sto18, MM15b]. **Building** [NR15, SS18b]. **bulk** [Rät15]. **bulk-surface** [Rät15]. **bundle** [Gru16]. **Burgers'** [CZ19b, Sey18, AHL17, BK19c, DAM15b, GHB17, MDG17a, MDGVR17, MS18, RCBG19, SEÖ16]. **buried** [BTKM15, YL18b]. **burst** [VOB16]. **burst-correcting** [VOB16]. **business** [HEA18]. **BVP** [FM18b]. **by-claims** [FL16].

cables [LMS17]. **CAGD** [KL17]. **Cahn** [Che19b, CFWW19, CSE+19, DF15, JK18, LHY19, Son16, SJL16a, WCW19, XZ19, YZH18]. **Calculating** [HLLS18, QDBG18]. **calculation** [ML18, OT17]. **calculations** [CDH+17, LC17a]. **calculus** [Abd15, AM19, DJAMJ17, FLN16, IAAW18, Uda18]. **Calderon** [YOK15]. **calibration** [GRVC15, GB18, MRMA15, MRMA17]. **California** [TLL16]. **call** [CEJ16]. **CAM** [HWXC19b]. **Camassa** [YFS18]. **Can** [DMS19, DD16c]. **cancer** [Mer19, SN19]. **cancerous** [KCDACC17]. **canonical** [CGMGV15, CSXY19, DLM16b]. **Cantor** [Man15]. **capacity** [ASV17, BBG+19a]. **capillarity** [CM19a]. **capturing** [Pol16]. **Caputo** [CHX18, FJLB18, GS15b, LCL16, SF18, YMGA19]. **Caputo-type** [LCL16]. **car** [BM19b]. **carbonation** [PCJ18a, PCJ18b]. **carcinoma** [GMSRP16]. **cardiac** [AdQdS16, COdSR16]. **cardiovascular** [FNdO15]. **Carlo** [ABT17, BH17b, CFMÖ19, Dan17, God16, HWZ18a, HWH19a, Kaw17, MOY18, Nak15, SD15, SSD16, SMTdF18, SM19b, SX18, XW18]. **Cartesian** [ML16]. **cascadic** [SSW19, SWH16]. **case** [AHKT15, COGD19, CCNQ+16, CCJ18, GO15, IN16, MOY18, PN16, dR16, dSBV16]. **case-study** [CCNQ+16]. **cases** [CFG+19, DLM16a]. **cast** [NGGA+18]. **Casteljau** [SJ15, KMLB17]. **Casteljau-type** [SJ15]. **Cauchy** [AB18a, BLM16, CNQR+18, DJC15, HS18b, HX15, HMH18, KR17, KW16, LZZL17, LMA18, Men17, TN19, YCX19]. **cavitation** [ML19a, SJRR17, SL18]. **cavity** [LW15]. **Cayley** [BCT16]. **CBD** [GD16]. **CDO** [OG16]. **celestial** [OGR19]. **cell** [AALMLM19, ALMLM17, SN19, YGC19, ZH16, ZBL+16]. **cells** [JC18]. **Cellular** [ALS19]. **censored** [FPGK19, Gun18, HG19, Wan18e, Wu18, WH19, YZPL18, ZSW16, ZSZ17, ZNS18]. **censoring** [ABB18, BSLL18, BSLL19, NAK17, Wan15b, WS16, WL17c, WLC+18, ZG19a]. **center** [EHVM18, RFO17]. **centered** [KD17, LCX18]. **centerline** [NGGA+18]. **Centers** [BL17, GLV15, AIL17, GV17, IL15, LI15]. **Central** [GS15b, LPW+19, CL19b, QCSG18]. **centralities** [FR18a]. **centrality** [CFG+19]. **centroidal** [WKXT15]. **Certain** [AQCJ17, DM16b, KR18, NT15]. **Cesàro** [DMMSK17]. **CEV** [ALS18, JYK16, LRZ15, Mel19, Sta19, WRZ18, YL18d, YL19b, ZYY19]. **CFEM** [ZCH18]. **CGRS** [GC18]. **Chaikin** [DY19]. **Chaikin-based** [DY19]. **chain** [CH19a, CNQRR17, MT19]. **chain-based**

[CH19a]. **chains** [HLLS18]. **Challenges** [YOK15, RS19]. **chance** [OAN17]. **change** [LC16, Mit15b, SVV18, WZS19, WAGVRB19]. **change-point** [LC16]. **change-points** [LC16]. **changeable** [SYT16]. **changed** [Sho18]. **changes** [NCQ+18]. **channel** [EKKT17, Liu16, WS19]. **channels** [ABL+19, Xin16]. **chaos** [LHM16, Luo18, OKGB19]. **chaotification** [ZZ18]. **Characteristic** [DLMZ19, GDC15b, GC17, JLCZ17, YB17, YSL+18, ZYZ18]. **characteristics** [FW18, LD19a, LD19b, MT16b]. **characterization** [APS15a, APS15b, KSR15]. **characterizations** [La19]. **Characterizing** [BPD15b]. **charge** [BIJM+19]. **cheapest** [KYS16]. **Chebyshev** [ABK19, AGM15, CRS+18, CSTU17, DDM15, DRST19, GLR16, GOGM17, HXX16, HB16, LL16b, LSH+19, MA16, MD18, NSM16, NT15, NDH16, NH19, PD17, YJBM19, ZM15b, dR16]. **Chebyshevian** [Maz18]. **Chemical** [BCMP16, CSE+19, LK18, PCJ18b, RKV19, SR16a]. **chemistry** [LK18]. **chemotaxis** [AA17, Mer19, RKS16, ZZLY16]. **chemotaxis-haptotaxis** [Mer19]. **chemotherapy** [KCDACC17]. **Chen** [Wu18]. **Cherednik** [Mej17]. **chikungunya** [VZDV18]. **China** [ML17b, MLW19, WWST18]. **choice** [HHS+15, LF19, PB15, SWZW15, VAR15, YL18a]. **cholera** [LPST17]. **Choosing** [CGT18]. **Choquet** [Nak15]. **CIR** [AHT18, NM17, Ruj16, Sta19, Wu19]. **CIR/CEV** [Sta19]. **Circle** [Ahn19, BD16, BCD15, BCA18, BCCB15, CBMO15]. **circles** [LAHB15]. **circuits** [Sch18]. **Circulant** [Hon19]. **Circular** [Zag18, Zyg17, AH18, Bej16, CKKJ15, FdGKZ17, VŽ19]. **cited** [DLY18]. **CK** [LSXL19]. **claim** [EG17, FY18, GZH19, RVZ15]. **claims** [BRA16, CLPZ17, DT18, FL16, NY19, RVZ15]. **Clarke** [HND18]. **Class** [FMC+18, ABG17, AFBJGJ17, AGR15a, AG16b, AH15, BLXD18, BS18, BHN15a, BAO+16, BG17, CFR18, CDRY18, CN16, DVA19, FCJ16, FR18b, GH16a, GMG19, HXX16, HK07, IÇ18, JMSL19, JGAFAL19, KK19a, KCK18, KS17a, LD19a, LD19b, LY18, LH18, LDG19, LDL+19, LSH+19, LN17, LNP17, MFX15, MT18, Men17, Mil15, Mok15, NBAK19, Nat19, NH19, NN18b, OM17a, PHD17, Ple17, Ros17, SHW19, SJ17, SVAKGR19a, SW17b, SLW17, TGJ19, VDT19, WNML16, WZL17, WL19a, WZWJ19, WL17a, XY16, YP18, YZZL19, Yao18, YJBM19, ZS18a, ZSL15, ZSL18, ZWT19, ZZZ15, ZM16b, ZZ15]. **Classes** [Mel19, Baz15, HZ18a, LFCW19, LZ16b, LDZ18, LPT17, Meh19, RFO17, RN17, Yao18, ZWX18]. **classic** [OCU17]. **Classical** [ABB18, CRGB17, RCBG17, BDGO15, CLPZ17, MDG17a, RVA15, RCBG19, dR16]. **classification** [BD19, CFJMVG16, LC16, RDRM15, SBP17, WCS17]. **Classifier** [TK15]. **Clement** [OV17]. **Clenshaw** [Wan18b]. **climate** [SPG+16a]. **close** [OGR17b]. **Closed** [LaTG17, BN19, HZ18b, LWC17, RZ19b, Ruj16]. **closed-form** [HZ18b, LWC17, RZ19b, Ruj16]. **closely** [GC18]. **closures** [MS18]. **clothoids** [BF18]. **cloud** [CCZ+18, SK18]. **clouds** [QDG+15]. **Clough** [BI17, KB19]. **cluster** [GHA+15]. **Clustered** [Hai17]. **clustering** [BCC+18, EWR18, JWQ18, SBP17, VFN18]. **clusters** [DS15a]. **CMAQ** [SPG+16b]. **CMC** [YZY17]. **CMM** [GHL18]. **CMMSE** [VACR15, VAMGR17, VAMDGR19]. **CMRH** [ATG18]. **CMV** [BDG15]. **CMV-like** [BDG15]. **CNLS** [RWW17]. **co** [GR16, MLV16]. **co-creation** [GR16]. **co-infection** [MLV16]. **coalescence** [BV16a]. **coalition** [MTMZ19]. **coarse** [lCCVV18, CDKN14, CDKN15, SPM15]. **coarser** [LW15]. **Coast** [TLL16]. **coastlines**

[RTV15]. **coated** [GDC15b]. **coaxial** [LMS17]. **code** [GGK18]. **Coded** [MA19a, PGD+18]. **codes** [VOB16]. **coefficient** [Abd18, Bay15, CL18a, FF15, GYL16, JJX17, LLL19a, LSXL19, LYG15, PCSR19, SJL16b, SZJ19, SYW19, WZS+18b, YY16, ZLPF19]. **coefficients** [BS17b, BWS17, CTZK18, CZLV17, CLC18b, CL19d, DIJ17, FYY17, GC15, GCY18, KCX17, LMM19, LP15b, LWC17, MR19, MT17b, ML19b, MSV18, MHC16, Prz15, SW16a, SW16b, Sun19, WG18, Xu18, ZJ19, ZWH15b]. **coercive** [DMS19]. **coexistence** [SS18d]. **Cohen** [LJ15]. **coherence** [LC19]. **coherent** [BO16, FOK15]. **Coincidence** [BP17a, PAC15, dHKdHMM15]. **cointegrated** [CW15b]. **cold** [FOK15, NCPD19]. **coli** [BYWPA19]. **collage** [BKLR16, LCZ18]. **collage-based** [BKLR16]. **Collective** [DT18, Lu18]. **Collocation** [PSK16, SPK18, AKHSU18, AST19, AT17, CW16b, CZLV17, DP17a, DSOBK16, Elg19, FMR15, GAA16, HMT+17, HR15, HXX16, HNT19, KPT15, LHPZ18, LLHO18, LFWC19, LL17, MMO15, MHL16, Moh19, Mok15, NN18a, Nem15, NH19, PSS17, PRP19, PTV17, Pis15, SR16b, SGG19, SLH15, TJB17, WWM17, WW19a, WCS18, YHZ18, Zak19, ZWGL18]. **Colony** [Xu17, NGGFM17]. **color** [PBJCM19]. **coloring** [FP16a]. **colour** [PKMM19, PBMJC18]. **Column** [HVV15]. **combination** [HHEG17, LL16a, Zha17b]. **Combined** [APS19a, MG15c, TAT18, BCS17, DD16a, HSWH15, Mit15b, NH19, XDW18, YSL+18, ZZLY16, ZZZ+17, ZMTT19, ZDF+17]. **combining** [Elg19, HWH19b, JGTB15, JWQ18]. **comment** [FL23]. **Comments** [SF18, TGJ19]. **commodity** [GVHMR17, GVHMR18, ST16b]. **common** [BWS17, Gun19]. **communication** [KBT15]. **commutative** [GLMY18, LW19b]. **commutativity** [CRR19]. **commutator** [Tho16]. **Comonotonic** [FJD17]. **Comp** [GMSR21, MHY21]. **Compact** [CROC16, BK16, CRCM16, DP19c, JGGS16, JS19b, KK19c, LLL19a, MT17b, MS19a, WLW19, WSL19, Wu17, ZZW16]. **compactly** [HW18a]. **companies** [ZS17c]. **Comparative** [CN18, DSN17, KPS17, SR16a, dSBV16, CFSS18b, LLSM15]. **Comparing** [APS19b]. **Comparison** [BS16, Das15, HZ18a, JCH17, MSH15, RF18, Su18, BCC+18, CJT17, EPC17, KVO18, NGGA+18, RFLM16, SVW19]. **Comparisons** [YH18b, GGC15]. **compatible** [LA15a]. **compensated** [LSL18]. **competing** [Wan18e, WS16, ZSW16]. **competition** [CM18b]. **competitive** [PBS15, Wan18h]. **complement** [BO18, NZL17]. **complementarity** [AHM18, DLLB17, Fan15, GWLL18, HZ18a, HWCC15, HWT15, LY18, WYW15, WL16, YZZL19, ZqZwZ15, ZL15b]. **complementary** [HWH19b]. **Complete** [DD16a, EJJ15, Fuk15, PW15a, RMMRC15]. **Completely** [QL19]. **completion** [BDGIPG15]. **Complex** [ASKG18, NS18, AY19, APYW19, AKM18, BN19, BBB17c, CQW17, CM18a, CFG+19, Elg19, GGK18, HWXC19a, HWXC19b, Kow17, LRRV18, LH18, LH19, NZ15, PM15, QL18, RWW17, SZZ+16, SLQ16, TJSW19, WW16a, WZL17, WCW18, WL17b, YH18b, ZZZ15]. **Complex-step** [NS18]. **Complex-Step-Finite-Difference** [ASKG18]. **Complexity** [DGSM15, ACDT18, CT15, GM17b, YSL17]. **compliance** [FS15, HRS16, VMR17]. **component** [DS15a, DKLP15, FOK15, GVHMR18, HHKR15, Kav16, KS16, Vab18, YFS18]. **component-by-component** [DKLP15]. **components**

[CJ18, LSBL18b, MM17, RIK16, SM16]. **componentwise** [DZ18]. **composite** [DCNY18, EL19, LWZ17, MCLW16, YZ15a]. **composites** [CJP17, GK18a]. **Compound** [Ery16, CLHMT15, GLP16, WH16, WZS19]. **compounding** [SBC16]. **Compressed** [CG17a, AALZ15, CL19a]. **compressible** [CFS19, CZ16, DBdLdM+19, HK19, IDGH18, LRX16, SSG16, ZCH18]. **Compression** [BDG15]. **compressive** [MA19a]. **Comput** [ÁD15, AB16, Beh16, BP17a, BKMO20, Chr19, CDKN15, CPL+19b, DNL16, GAA21, JSW18b, LGB18, RdSMO18, SW16a, TGJ19, ZPL18]. **Computation** [CPOG18, DS19, FFN+17, KK19a, KL15, Xie15, ADG17, BBG+19a, BWS17, CDDD19, CDR18, DIS+18, DI19, Fuk15, JR15, KF16, LDZ18, ML19a, MM19, MS19b, Miy17, Miy18, Miy19, Mol15, Pap16a, PP15, PN16, PKR18, QWZ16, SS16a, SIAJ+19, SS16b, SM17, SL18, TDA18, XM16]. **Computational** [AG16a, BdSFL16, BK19d, DNY17, DMCC+18, KAM16b, SDG15, TJCC17, WWST18, WL17c, AA18, ALMLM16, BG17, BLV19, CNQRR17, DCNY18, DGN19, GM17b, JTCC18, KS17a, KV18b, MH16b, SK15, TAT18, TJCC16, VFG18, VAMGR17, WLC+18, YGS18, VACR15]. **Computationally** [PS18]. **computations** [ÁD14, ÁD15, ACEJ18, OV17, Tan17, ZDL16]. **compute** [ACDT15, BCMP16, GGBTP17, MG15c]. **computed** [MA19a]. **computer** [GM16a, KLS19, MHY17, MHY21, PN16]. **Computing** [ABP15, CBP18, CCNQ+17, CNQRR18, DD18a, EG17, KW16, Mia18, NS17, NR19, PCJ18a, SS18b, SSH16, AIS+17b, BCJV18, BCVV18, CQW17, CM18b, CHYZ19, CV17, Chr18, Chr19, CEJV16, CNQR+18, DIP+19, DB15, Elo19, GD18, GXZ15, GW17, GJSC18, GM16b, HS17a, HRS16, HAH17, Kam17, KLL18, LXL15, ML17a, PCJ18b, RSID16, Sad19, SNY19, WO19, WHS17, Xie19]. **concentration** [TNTL18]. **concentrations** [NGGFM17, SRA+15]. **Concept** [CYY+16, Ahn15, CMRP17, FZW19]. **Concomitants** [DG16b]. **concrete** [PCJ18a, PCJ18b]. **condensates** [Bad18]. **condensers** [BBG+19a]. **Condition** [Dia18, AM17a, AR19, BySZ19, CW15a, DWQ16, DZ18, DLHY15, DD18b, EHVM18, Fer15, GS15c, HMS19, HZ17a, JZ18, KB17, KM18, KKV19, KS17c, LT18, Li18, SLH15, WP16a, YW16]. **Conditional** [CEJ18, XW18, GSM18, GM17a, Hag15, Ruj16, Ugu18, ZLPF19]. **conditioned** [KR18, ML18]. **Conditioning** [AK18]. **conditions** [AB18a, AL19a, ABL+19, AK18, AMP18, AK17a, AH16c, AEHVM18, AG19, BKMS18a, BKMS18b, BHN15a, CJCDLL15, CJVW15, CXW19, DGM16a, Dos19, HMD19, IN16, JLCZ17, KDW17a, KS16, KGMS18, LD19a, LD19b, LX16b, Mol15, PW16, QM15, RMMRC15, SGG19, SVL19, VCL+19, WPA+18, WZS18a, WZS19, WW16b, Xu18, Zho16]. **conduction** [MCLW16, QDBG18, VDS15]. **conductive** [GRS19]. **conductivity** [CMHHS17, KV19b, dAFvdMR19]. **cone** [BDF15, Fer15, HWCC15, NS19, NTPVNTDT15]. **Conference** [DNY17, WWST18, CPRS19, BLLM+15]. **confidence** [YS19, ZZW18]. **configuration** [CCIL18]. **configurations** [ADMV19, GH16a, GH19a, Uda18]. **conformable** [Abd15, Chu15, KK19b]. **conformal** [DS19, Moo17]. **conforming** [OZ17]. **congruence** [OSMZ18]. **Conic** [Chr19, Chr18, DLMZ19, HG17, Hu16, NR15]. **conjugacy** [DLHY15, GKM18]. **Conjugate** [GW19, JL17, And16, And17, DLHY15, DZM16, Fat16, GC18, GHC16, JJ19, LSDY19, LH19, LS18a, Miy19, Ou18, VL19, YN18, YZ15c, YWY19, ZEBM17]. **connected** [BD16, FJ19, LZZL17, XZXQ18].

connecting [BBB17a]. **connection** [AGR+15b, CBMPP15, MP15, PDB15]. **conquer** [LRL+18]. **Conservation** [BMG+19, RCBG19, BSS15, BM19a, CRGB17, HWC16b, HW18b, JN18, LBL15, LSXL19, LV16b]. **Conservative** [BAK18, JSW17, JSW18b, CW16a, CZ17b, CFS19, CVW17, DGM19, GdLT17, MM15c, PG16, WHZ16, WD18, WLW19, WD19, WSL19, WW19a, YB17, ZWW+18, ZKRL15]. **conservative/dissipative** [MM15c]. **Conserving** [LRKV16, BGS19, FS19b, WCW15b]. **considering** [BE19]. **consistence** [Col16]. **consistency** [GWT18, Tho16]. **Consistent** [BDGIPG15, BCC+18, CW15b, CSE+19, GSVSM16, Han19, Kad17, KW18, LRZ15, MDG17a, MPH18, OD17, OGR17b, OGR19]. **consisting** [BE15]. **consolidation** [CCX18, HRGZ17]. **constant** [CH19b, GZH19, GB18, Men17, MS19b, Mil15, Mil16, SFH+16, TSMO17, Wan18c, Wan18d, YFwC19, Zha16, vSV15]. **constant-stress** [Wan18c, Wan18d]. **constants** [BYW18]. **constitutive** [AM16, KMD+16]. **constrained** [AFN17, BBH+17, BCFN16, BKLR16, BySZ19, CD16b, DDM15, DP17b, EWR18, GM17a, Haj19, HHS+15, HMMV17, HYZ16, HY19b, LLW17, LW19b, MHAA15, NS19, NRV18, PLP17, RKB16, SV19, SCP19, XCG19, Yua15, ZXQH17, ZL17a, ZZW18]. **Constraint** [CYY+16, BLXD18, JS19a, LMUZ18, OAN17, YZW15, Zho16]. **constraints** [BE19, Dia18, FZ15, GW16, HZ17c, Iid15, JCC15, JMN+16, KCX17, MYG18, PX17, WP17, XDZZ19, ZqZwZ15, ZG17, ZX16]. **construct** [MRMA15, MRMA17, OGR17b, OGR19]. **Constructing** [CEJ16, EK19, GKN18, Maz18, WZH19, DD17]. **Construction** [AFH16, Abd16, DGM19, KBL19, LDZ17, PP19, TYMG17, YW15a, BIR17a, DKLP15, KMRS16, KV18a, MHY17, MHY21, MII16, SS18b, XMW+15, XD17, ZHL15]. **Consumer** [ÁRS16]. **consumption** [ML17b, MYG18, TF18, WS18]. **consumption-investment** [MYG18]. **Contact** [KSD17, ACCF19, BS16, BOF+16, DKP+19, FS15, Gor16, HH19a, HMS19, HR16, SKB15, VMR17, XHH+19]. **contaminant** [LYS19]. **content** [NGGFM17]. **context** [AMRM17]. **Continuation** [Elg19, KLL18, BC16, BMM17, BZ19b, XC18]. **continue** [AV16]. **continuing** [JGGS16]. **continuity** [LZ18a]. **Continuous** [HRS16, HLZ19, SCP19, BFMP19, BS17c, CGMGV15, CY18a, DGM19, DGN19, FR18a, GC18, GHV19, HP17, IAMCI18, KK17, LL15, LI15, LSL17, LSL18, MFK+15, MGMDGVR17, NGGA+18, OCU17, OCU18, Yao16, ZCS+19, ZWH15b, dFLM18]. **continuous-discrete** [KK17]. **Continuous-time** [SCP19, HP17, KK17]. **continuously** [Xu18]. **Continuum** [VCL+19, LWV18]. **contour** [Bej16, GG17a, VK16]. **contraction** [DTKP17]. **contractions** [SHS+15]. **contractive** [KS17c, RMMRC15]. **contracts** [ZY19a]. **contrast** [AEKGP19, AdQdS16, GK18a, PHCG16, RP15, YOK15]. **Control** [LZL+18b, PB15, Rót15, ABH19, ABN+18, APYW19, AFN17, AL19c, BYW18, BGMS16, BYWPA19, BGNGR+17, BySZ19, CHS+18, CG17b, CSB18, El 17, ERPD18, FZW19, FAVGC+15, GCY18, HNT19, HC15, HYZ16, JCC18, JAN17b, JZ18, KCDACC17, LE18, La19, LPST17, LLX17, LX16b, LDW17, LW19b, MO18a, MLV16, Mat18, MO18b, MS15a, MSY16, MSY17, OKGB19, Ple17, Prz19, RRW17, Ros19, SYZ19, SZZ+16, SSCM18, Sun16, hShX17, TF18, Ugu18, WZZ18, YT16, ZYXT16, ZXQH17, ZWY16, Zho16, ZC16b]. **controllability** [GT19, LDW18]. **Controlled** [Ugu17]. **controller**

[ZWWW19]. **controllers** [DMM18]. **controls** [HND18, WKBB17]. **convection** [ALC19, AW19b, BVZ17, BK15b, BK19d, CFX17, CHS+18, CJ19, GLL19, GS15b, GO17, HSWH15, Jeo15, Jin16, LC17b, Liu18, MPH18, NSV18, PDO19, PCSR19, RR16, SYW19, WZS18a, WAGVRB19, ZCZM17, ZP19, ZL17c, iW16]. **convection-diffusion** [BK19d, CJ19, GO17, Liu18, MPH18, NSV18, ZCZM17]. **convection-dominated** [HSWH15, Jin16]. **convective** [KtTBK18]. **Convergence** [AHT18, AMB19, BCD15, BHRR18, CGPR17, DMMSK17, DIJ16, GM19, HHLS18, HLM18, HMT15, JC15, LZ17a, LZ17b, LHZ15, LSL17, LSL18, MJ18a, MMO15, Mao16, MLSK16, Mil15, MS17e, PI19, SYZ19, WZ17, YAA19, YJBM19, yZ17, ZWX18, iW16, Ais17a, ÁD14, ÁD15, AAB+18b, ACDT18, AL19b, AR15c, AM15b, AM15a, AGM15, ACMT17b, AG19, AALZ15, AKM18, BM17a, BM18, CV17, CT15, CHVRT15, CJSCT18, DLW16b, DTKP17, DLM17, DIJ17, EL19, EHV19, Fer15, GDM16, GMdV19, GAA16, Guo17, HVMR19, HK07, HH18d, JYK16, KB17, KHLY17, KAS18, KGMS18, LP15a, LX18, LW19a, LJ15, LY18, LZW18, LWZ19a, LYS19, LM15, LLY19, LN19, MG15a, MA16, MS17a, MD18, MBM17, MPM+17, ML19b, Mok15, NN17, NSV18, Ou18, Pis15, RP16b, RC19, RW16, SPK18, SNY19, SH18, SH19]. **convergence** [SBCJ18, TGJ19, Tan18, WW16a, Wan18b, XY18a, XY18b, YSG18, Yao16, YH18a, dlCYC15, YSW+18, YWY19, ZQJY18, ZSL18, ZCC15, ZC16a, ZJ17b]. **Convergent** [CLZL18, AW19b, AK17c, Bay15, BTKM15, Che16a, EC18, JGTB15, LLW18, MDG17a, MR19, SJRR17, STS15, ZL18a]. **convergent-divergent** [SJRR17]. **converging** [RMA19]. **Convex** [HLMS19, Iid15, AAKT19, AHS19, BCFN16, CLZL18, CLZS19, CK16, CPL+18, CPL+19b, CPL+19a, HAH17, KKP+19, LV16a, LXL16, LDL+19, MA19b, MTMZ19, NS19, Nie15, SCP19, TSMO17, WS17, WWH19, ZML16]. **Convexity** [Han15, GS18a, GS19, KElY16, MLS15]. **Convexity-preserving** [Han15]. **convolution** [AL16, BL16, DVS15, FL23, LA15a, SWZW15]. **convolutions** [GWT18, JB18]. **Conway** [GH17b]. **cooperative** [CZ15]. **coordinate** [BAO+16, EK19]. **coordinates** [AHS19, MCLW16, VS18, pWmGkY+19, ZwKN15]. **Copula** [Xie15, BSLL18, Rom18, TJA18]. **Copula-based** [Xie15]. **copulas** [Ahn15, BKMO19, BKMO20, DGM16b, GSM19, JN19, LCA17, RN17]. **Cordero** [Wan18f]. **Cordero-Torregrosa** [Wan18f]. **core** [yZyMxG+16]. **corner** [CL19a, RR18]. **Cornu** [CC15]. **Corput** [Xia19]. **Corput-type** [Xia19]. **Corrected** [TBAH16, ALC19, AA17]. **correcting** [VOB16]. **correction** [CLZL18, EP18, Mia18, QM15, WXJ19]. **Corrective** [GLLS16]. **Corrector** [Elg19, PS15, YLL15]. **correlated** [KB17, Liu16, STZ16, WS19]. **correlation** [KV16, LWLL18, TEG15]. **corresponding** [PMN19, SvG15]. **Corrigendum** [ÁD15, AB16, BP17a, Chr19, CPL+19b, GMSR21, LGB18, RdSMO18, SW16a, ZPL18]. **corrosion** [PCJ18b]. **corrugated** [LMS17]. **cosine** [CYY15b, DIP+19, HOM17, SIAJ+19]. **cost** [ALMLM16, BE19, CD15, SAC17, SS18b, WCS17]. **costs** [TF18, Ugu17, dFG17]. **Coulomb** [VMR17]. **count** [AFBJGJ17, QLZ19]. **countermonotonicity** [LCA17]. **counting** [BDAG15]. **coupled** [AMZ19, BM19b, BK19c, CGPR17, Con18, DAAF16, FZW19, FNdO15, HRO16, Kad17, LLCG16, LGLC18, LGYC19, Lin16, LSH+18b, LWC17, LC17b, LCX18, RC19, SSD16, SW17d, VG17, XDY16]. **Coupling** [LWLL18, AMP15, BHN15a, BV16c, ERR18,

GC18, HS18c, LWW17, MPM+17]. **Covariance** [GYLQ16, Mar19a]. **covariates** [GMSRP16, ZZW18]. **covolume** [ZCL16]. **CP** [TPC17]. **CPR** [WLLC18]. **CPR-type** [WLLC18]. **crack** [LWW17]. **Craig** [iW16]. **Crank** [GSRJ18, JKL+15, LMW18, LGYC19, Moh19, RZ19a, SW17d, ZZW16]. **creation** [GR16]. **credit** [MX16, WZBM18]. **crisis** [Nke18a]. **criteria** [HM19b, IABIPG17, IAMCI18, Ugu17]. **criterion** [BFLP15, LRZ15]. **critical** [NCF+19]. **criticality** [SOMF19]. **cross** [Arm18, Luo18, MRVV16, SFH+16]. **cross-diffusion** [SFH+16]. **cross-grid** [Arm18]. **crossflow** [LZRH19]. **cryosurgery** [KS15b]. **crystal** [Bot16]. **crystallizer** [MFK+15]. **crystallography** [PGD+18]. **crystals** [AK17b, LC17a]. **CS** [NTPVNTDT15]. **CT** [HLG+17]. **CTIT** [OM17b]. **cubature** [Ber15, Pap16a, Pap16b]. **cubatures** [NP15]. **Cubed** [Cro15, PC18b]. **Cubed-Sphere** [Cro15]. **Cubic** [GS19, HG18, AHBC15, ÁAM15, AIL17, Bal17, BC16, Han15, HZ17c, KB19, LI15, MG15b]. **Cucker** [GMW18]. **CUDA** [GDC15a]. **cumulative** [LC19, PT17b]. **curl** [CL19d]. **currency** [XY15, ZYL18]. **Current** [VAMGR17, AL19c]. **Curtis** [Wan18b]. **curvature** [LX16c, WZH19]. **Curve** [LXD+18, ZHL15, BRW16, CYY+16, LA15a, LA15b, SW16a, SW16b, TXFH18, YB17]. **curved** [AG16a, CDF+16, LLZ18, Sto18, VRBS19]. **curves** [AH18, Ahn19, ACDT15, ALV19, ADD+16, ATV15, BAAA+15, BDSB16, BLV19, BPD15a, BPD15b, BZ16b, EL19, FW18, FGS19, FWW+18, GS15a, GW16, HWC16a, HG17, Han19, Hu16, IANS15, JSC18, KL17, LA15a, LA15b, LFCW19, Lu15a, LJ16, LX16c, LX17, LJX17, LZ19, MPS19, MB15a, Nie15, PDB15, Rót15, SR15, SPD15, SJ15, VŽ19, WZH19, WGZ15, WZ18, YW15a, ZZ16, ZWY16]. **curvilinear** [MCLW16, VS15b]. **cuts** [Kow17]. **CVaR** [BBB17a, BBB17b, DLS17, GSM19]. **CWENO** [HW18b]. **cyanobacteria** [NGGFM17]. **cyanotoxin** [NGGFM17]. **cycle** [NGGFM16]. **cycles** [BL17, LP18, LI15, dFLM18]. **Cyclic** [BAO+16, AALZ15, CTZK18, SHS+15]. **cylindrical** [VG15].

D [AMM19, BBG19b, CGSS17, CJ19, CROC16, CZ16, DAM15b, DMAS+16, DFGS16, EKKT17, GC15, GLL19, GRS19, GD17, Guo17, ID16, KV16, KV17, LW15, LW17b, MS19a, PT17a, QDBG18, RdSLL16, ST16a, SJ17, SW17d, TBAH16, TW19, VS15b, WD19, Wu17, XZN+19, ZLS+15, Zha19a, ZWZ+18]. **D-bar** [AMM19]. **D.** [DLY18]. **DAEs** [JS17, Ran15, Sch18]. **Dai** [JJ19]. **Dalian** [WWST18]. **damage** [CNJM18, DJAMJ17]. **damped** [DCNY18, MG15b]. **Damping** [KTT16, BM19a, CRR16, EGK17]. **damping/driving** [BM19a]. **Darbo** [CT16]. **Darcy** [AB16, AFM19, ABB+15, CGPR17, Chi17, ES18, ELRR17, ERR18, KLM17, KSW19, LLCG16, LGLC18, LGYC19, Ngo19b, ZH15]. **Data** [KElY16, TK15, YS19, AFBJGJ17, AdHR17, AG18, APYW19, BL18, BIR+17b, BBQ18, BK16, BL16, CG17a, CG19, DD16a, FP18, GLdCJS17, GHL18, Gun18, GH17b, HHS+15, HMKCR19, HG19, HZ17b, HLLY19, IANS15, JAN17b, JBFS15, KP15, LAHB15, LSZB17, Lu18, MTV17, MAK19, Mar18, MP15, NPR18, NGGFM16, Nie15, QWZ18, RVC19, RS16, Su16, VFN18, WSL17, Wan18e, WSG+19, YZPL18, YC19, ZSW16, ZSZ17, ZNS18]. **data-driven** [CG17a, CG19]. **database** [PR16]. **dated** [CP15]. **Daubechies** [PM15]. **Davey** [Mus17]. **Davidson** [HMP15, JL15, Mia18]. **DC** [Mud19]. **DDM** [ZL17c]. **death** [vD15]. **deblurring** [DGH15, EW18, HH19b]. **debt** [Nke18a]. **decay** [FdOP17]. **Decision**

[FLMS16, Ugu17, BDGIPG15]. **decomposed** [JGGS16, JS19b]. **Decomposition** [FMC+18, AM17b, ALC19, APS17a, BV18, BW16, CSXY19, CT17b, DLM16b, DFS15, GHM18, GKQW17, GMCD15, GC17, GK18a, HA19, HWZ19, HVM18, HZ17b, KVO18, KK15, KNP+17, LDK17, LD15, NAM18, OD17, RL18, SMS18, hShX17, TDA18, TPC17, Vab18, WCW18, ZY18]. **decompositions** [CRSV19]. **deconvolution** [DTB17, LLD18]. **decoupled** [AA17, ZHS18]. **decoupling** [Chi17, ZH15]. **decreases** [IGRL17]. **decreasing** [DKLP15]. **deep** [AG16a, LWLL18]. **Default** [JA17, JYP18, JSW18a]. **defaultable** [ZC19]. **Defect** [AHKT15, QM15]. **Defect-based** [AHKT15]. **defect-correction** [QM15]. **deficient** [GW19]. **defined** [BZ16b]. **definite** [AN17b, MK17, Miy19, WXZ19]. **definiteness** [CQW16, HQ18, ZW16]. **definition** [OCU17, OCU18, YMGA19]. **definitions** [SF18]. **deflated** [MLJ16, NF17, SHCJ19, xZWlC15]. **deflating** [FwC17]. **Deflation** [DVJ18, vSV15]. **Deformation** [HFMM16, HRS16]. **deformities** [DMAS+16]. **Degenerate** [Mol15, BK19d, CKKJ15, Ple17]. **Degree** [SYT16, AM17a, Ahn19, ACMT17a, BL17, BDSB16, GS18a, Hu16, LHJR15, LX17, WWL15, ZG19c, dR16]. **degrees** [QL19]. **Delannoy** [QCSG18]. **Delaunay** [GLTW15, WKXT15]. **Delay** [HKZZ15, ALS18, AHT18, Akh19, AY19, ACAC17, AAC17, CPB19, CW15a, CWH18, DP17a, EC18, ERPD18, GZH19, GH16c, GQM16, HND18, HNT19, JY17, KEB19, KPW17, KAA16, Lan18, LXW19, LW19a, LZA19, LZY15, LZ16b, LMA18, MS15a, Mil15, OM17a, PHD17, SB16, SYD15, SYD17, Sta19, Ver16, Wan17b, WG18, WZ17, XH19, YAA19, ZSL15, Zha16, ZLF18, ZSL18, ZWH15a]. **delay-claim** [GZH19]. **delay-dependent** [CWH18]. **Delay-partitioning** [HKZZ15]. **delayed** [DT16, LRRV18, LZL+18b, LDZ18, ML17b, Mar18, Mit15b, You19]. **delays** [AG18, APYW19, AYSE19, CCD16, CWH18, FE16, GYS17, GH16c, JCC17, JCC18, LJ15, MHL16, Nat19, yZ17, ZWWW19]. **delivery** [FNdO15, RFLM16]. **Delphi** [Lu18]. **Delta** [KV18b]. **demand** [ASV17, BLH+17, EPC17, WS18]. **denoising** [DGH15, HS18a, MDH19]. **denominator** [JR15]. **dense** [GK18a]. **densities** [ÁAM15, DSA16]. **density** [CRG19, CNQRR18, GWT18, GK19b, NCJ16, NL17, You19]. **dental** [BOF+16]. **dependence** [Ahn15, BS17c, CLHMT15, GZH19, GMSR18, GMSR21]. **dependences** [Wu19]. **dependent** [Abd18, AL19b, AR19, BBCK19, BE15, BM19a, CL18a, CGPR17, CS18b, CRG19, CJ19, CWH18, CH17b, FYY17, FL16, FY18, GHM18, GTC16, GO15, Guo17, ICMPG16, JAN17b, JYK17, JN19, JLCZ17, KMD+16, KV19b, LMM19, LXW19, LKN17, LAVMA18, LHJ16, LZA19, MDG17b, OZ17, Par15, Prz19, SJ17, Slo15, SYW19, VFFGV16, WW16b, XHH+19, YZJC15, YT16, YZY17, You19, ZQJY18, ZL17c, dlHV16]. **depletion** [MV16c]. **deposit** [AO18]. **deposition** [ELRR17, ERR18]. **depth** [EM15]. **derivative** [Abd16, AEHVM18, BMM17, BGMM18, CHX18, Chu15, CSB18, EBJS19, EHVM18, Fan15, FJLB18, GVHMR18, GS15b, HG18, HVMR19, HZ17c, JLLZ16, Kam16a, KLM18, KMB+18, LRKV16, LF18, MG17, Moh17, NHA17, NAH18, NS18, RS16, SM19a, SO16, YMGA19, ZJG+15, ZHH+19, iW16]. **derivative-free** [Fan15, HVMR19, HZ17c, LF18, RS16]. **derivatives** [ÁNPPCSA15, AEP15, BGMS16, BCD15, BZ19b, CLX17, CT15, CJT17, DA19, Goć15,

GO15, KVO18, LN16, LCL16, LX15b, Mir16, OP19, SVAKGR19b, SSG16, Xie19, dSBV16]. **deriving** [dR16]. **Descent** [MHMP16, BAO+16, DLHY15, EJJ16, GS18b, LZW18, LF18, SCP19]. **described** [BGMS16, PBP16]. **describing** [SR16b]. **description** [Rót15, SF18, UPD+15]. **descriptor** [ABG17, CCRN19]. **design** [CCIL18, HEA18, LZL+18b, PGD+18, XCG19, YW15b, ZWWW19]. **Designing** [AO18, NR15]. **designs** [DGN19, MG15c]. **Deslauriers** [Vis19]. **detailed** [HYQ+18]. **Detecting** [LC16, PW15a, SR15, YL18b, LXZ17, NCQ+18]. **detection** [CBC+19, CNJM18, GJ17, JMSL19, EP18, RCPA15, RRS19]. **deteriorated** [CDW15]. **determinantal** [PP18a]. **determinants** [MT15]. **Determination** [HHOT17, LMM19, Slo15, CRR19, HRR15, PRRY18, PP18b]. **Determining** [MRMA15, VL15]. **Deterministic** [El 17, CDRY18, MDVM17]. **develop** [LOAGBR15]. **developable** [LZ18a]. **Developing** [CY18a, DXZ18, YOK15, ZL18a]. **development** [RMVA17]. **developments** [LLT16]. **deviation** [LX16c]. **devices** [DMCC+18]. **Devising** [SS16c]. **dewetting** [Zha19b]. **DG** [LRKV16, HT18, LHLL18, vSV15]. **DGMRES** [SS18a]. **diagonal** [BBC17, FM19b, SHC+19, WLZ17, ZZG+19]. **diagonalizable** [LXD+18]. **Diagonally** [HHR16, GLLS16, WKBB17]. **diagram** [AGR15a]. **dichotomy** [XqYL+15]. **dielectric** [PSS17]. **diesel** [SRRJ16, SJRR17]. **Difference** [ASKG18, Dos19, LV16b, AAM18, ÁNPPCSA15, ACAC17, BS18, CRCM16, CLX17, CJLT15, CFWW19, CEJV16, CEJ18, CROC16, CP16, Das18, DA19, DP19c, FGF19, GDCK19, GUB+17, GS15b, HCL17, HHEG17, Jeb19, JK18, Kha17, KV16, KKK16, KAA16, LBL15, LSZ16, LCX18, LW19c, MDG17a, MT17b, MVdRE+17, MVQDdR+18, MHV17, MT18, MMZ19, QL19, SAA18, SBU+17, Sha15, SYD17, TYS17, TBR16, UGG+19, WHZ16, WLW19, WD19, WSL19, Wu16a, Wu17, Yos17, dSBV16]. **difference-based** [Wu16a]. **differences** [AHP19, KD17, ZD19]. **Differencing** [AAKW16, AK19, BK15c, BK19c]. **different** [BE15, GLdCJS17, NADK18, RF18, ZTGZ18]. **differentiable** [Yao16]. **Differential** [ADD+16, BBB17a, KR16, AÖ17, ABN+18, AH16a, ALS19, Akh19, AM16, AA18, ABP15, AJ17, AJY18, BM17a, BM17b, BJ16, BBCP16, BO18, BDA17, BGII15a, BGII15b, BDIR19a, BT17, BPP17, Beh16, BS17b, BL17, BGL17, BS19, BS15, BR15b, BCVV18, CCNQ+16, CCNQ+17, CCJ18, CPB19, CW15a, CHR+15, CWH18, Con18, CJV17, CNQRR18, DBX19, DA19, DG16a, DFLM19, DIJ16, DT17, Dzh16, Dzh18, Elg19, Els15, EC18, EBJS19, FCJ16, FLJT18, FM18b, FLN16, GZD+19, GUB+17, GMG19, GV17, GN18, GLSW16, GLSW18, GS15c, GR19, GH16c, GQM16, Guo17, GLMY18, GL19, Guo18, HHR16, HMD19, HMT+17, HH16, HCA+18, HSAA19, HLM18, HB16, HIS16, IÇ18, JY17, JC15, JMS17, KB17, KP15, KS17a, KFT17, KRR18, KKS16, KDW17b, KDW17a, KMV16, KHLY17, KPT15, KEB19]. **differential** [KBG17, KAA16, KW18, KPS17, Lad15, Lan18, LX18, LXW19, LW19a, LW17a, LXD+18, LCZ18, LL15, LZY15, LM15, LZ16b, LTY17, LDW17, LDW18, LLHO18, LLY19, LFWC19, LNP17, LSL17, LSL18, Luo18, MDT16, MDG17b, MG15a, MMS19, Mao15, MYM16, Mao16, Mär17, MS19a, MOPP18, Mil15, Mil16, MM15c, MC18, Moh19, Mok15, Mol15, MJS19, NE17, NSM16, NY19, NT15, NSW15, NDH16, NH19, OM17a, PRP19, Pis17, ROB17, RRM18, RANG15, Reu16a, RM19, SF18, SAA18, Sak17, Sar19, SM19a, SB18, SPK18,

SAT15, SYD15, TJB17, TMS+17, TYS17, TGSS17, WWM17, Wan17b, WG18, WKBB17, WZ17, WL17a, WLM16, XY19, XZXQ18, XH19, Yam17, Yan17, YL19a, YZZ19, YAA19, YJBM19, ZS18a, ZSL15, Zha16, ZT18, ZSL18, ZH18, ZJ17b, ZG19b, ZWH15a, ZWX18, dFLM18, dlHV16]. **differential-algebraic** [HMT+17, Mär17]. **differential-difference** [SAA18]. **differentially** [DLW16a]. **differentiation** [BZ16b, Els15, LS18b, ZJG+15, ZWGL18]. **difficult** [SHC+19, TPC17]. **diffuse** [DFRR15, XD17]. **Diffusion** [AFdOdS15, ALS18, ALC19, APYW19, AMCR19, AK19, AW19b, AAKW16, AR19, BKMS18a, BS18, BVZ17, BK15a, BK15b, BB18, BPP17, BK15c, BK16, Bog19, BK19d, CCW17, CDP17, CD16a, CM16, CW16a, CLC16, CFX17, CHS+18, CLC18b, CLA19, CRG19, CPZ19, CKB17, CJ18, CJ19, CEJ18, CNQR+18, DP16, Dan17, DVA19, DSA15, Din16, DAAF16, FEC18, GHM18, GC15, GZH19, GZD+19, GLL19, GDC15b, GVMR16, GVHMR17, GVMR19, GPHAPR15, GPHAPR17, GO15, GO17, GHZ+15, GG15, GdLT17, HCL17, HSWH15, HK07, HYZ16, Jeo15, JSW18a, Jin16, KLM18, KV19b, KKW16, KK15, Lee18, LX15a, LCL16, Lin16, LC17b, Liu18, LF19, MX16, MDAP19, MVM19, MC19, MPH18, MVC19, ML16, MS15a, MKKV19, MFLL18, MR15, Mud19, NSV18, Nke18b, PHD17, PCJ17, Prz19, RP16a, RC19, Rät15, RR16, STZ16]. **diffusion** [SFH+16, SR16c, SS16c, SLA19, SWZW15, SZJ19, SYW19, TGJ19, TYMG17, TC19, THL+17, TNTL18, VFFGV16, VFGPG+17, WWZ15, Wan18h, WRZ18, WZS18a, WO19, WZ16, XY15, YS19, ZCZM17, ZZG+19, ZP19, ZKRL15, ZL17c, iW16, vSV15, BKMS18b]. **diffusion-reaction** [GPHAPR17]. **diffusion-wave** [BB18, CLC18b, DSA15, SLA19]. **diffusions** [AK16, YYL15]. **diffusive** [Bou18, MDG17b]. **digital** [God16, KGL19]. **Dimension** [AvG16, AdGvG19, BLMS19, KV18a, Bac18, BVZ17, CNJM18, Dan17, MRMA17, NSV18, SMTdF18, XW18]. **dimensional** [AN19, AK19, BM17b, BM18, BBQ18, BSS15, BG17, BEHL17, CDF+16, CTZK18, CQW16, Che16a, CL19b, CPZ19, CDE18, CJ18, CRR19, CNQR+18, DA19, EJJ15, FSNS16, FP18, FY18, GH19a, GRVC15, GLMT16, GDQ17, GKLS18, GWY17, HH16, HMDSR19, HMH18, JMSL19, KGES19, KV19b, KBL19, KNP+17, LP15b, LMW18, LLL19a, LLG19, LHPZ18, MS17a, NE17, OD17, PSS17, STZ16, SE16, SAC17, SLA19, SM19b, uIuD18, SJL16b, SZ18, SO16, TH19, WW16a, XHZ17, Zha15b, ZZW16, ZJ17a, Zha19a, iW16]. **dimensionality** [YZ15b]. **Dimensions** [ZDLD15, HM16, HHKR15, RKS16, RCBG19, TKMT17, ZWL18]. **DIMSIMs** [IJ18]. **Dirac** [WW16b]. **Direct** [Che19b, LXZ18, MHAA15, Mol15, QWZ16, AEKGP19, FNV17, HM16, MFX15, WHWY18]. **directed** [DMR19]. **Direction** [GC15, Han19, LLL19a, BI17, BDIR19a, CLZS19, HH19b, TLL16]. **Direction-consistent** [Han19]. **Directional** [KGL19, GZD+19]. **directions** [HSS19, LDZ17, VL19]. **directly** [HIS16]. **Dirichlet** [CDKN15, ACEJ18, CJCDLL15, CL19a, CG17b, CDKN14, GS15c, KM18, SGG19, WZS18a, WO19]. **Dirichlet-to-Neumann** [CDKN15, CDKN14, KM18, ACEJ18]. **disc** [CKKJ15]. **discontinuities** [MAF17]. **discontinuity** [HK19, PCSR19]. **Discontinuous** [CDE18, FLN16, SLS18, YZ16, ACLY19, AK17b, BJ16, Bac18, BBD16, CL19b, CFSS18b, DLM17, DYZ18, FS19b, Gia18, Goć15, GP16, GTX+19, HL18b, HCSC16, KM18, KCK18, KCX17, LRKV16, LSG18, LGYC19, LLSM15, Lin16, LI15, MTS17, SA17, SVV18, SF16, TX19, VS15b, WZS18a, XW18, XH19, YP18,

ZZLY16, ZM16a, ZZZ+17, ZCS+19, ZP19, ZC18, ZG19c, dFLM18]. **discounted** [YL18a]. **discrepancy** [BDF15, HPT19]. **Discrete** [AAM18, DNL15, EAKS18, FR18a, NW19, PCSR19, SB16, YZ15b, AY19, ÁNPPCSA15, AW19a, BEJR17, CYY15a, wCW15a, DJAMJ17, DD18a, DI19, El 17, EG17, FH16, FH18, GHL19, HRS16, HMDSR19, HRR15, HC15, HZ17a, HOM17, HJ17b, Jan17a, EP18, KPW17, KK17, LDZ17, LWL17, LC18, LWS16, Liu16, LZY17, MT16a, MR19, MO18a, MMMMB16, MP17a, Miy17, Miy19, MSZ18, Skr17, SM18, SO16, TB18, Tho16, WPA+18, XMW+15, YZY17, Yan17, YCW17, ZYXT16, ZXQH17, ZHY+17, ZHH+19, DNL16]. **Discrete-fracture-model** [EAKS18]. **discrete-time** [AY19, AW19a, wCW15a, LC18, LWS16, Liu16, MO18a, MP17a, Miy17, Miy19, YZY17, ZYXT16, ZXQH17, ZHH+19]. **discretely** [HLL15]. **discretisation** [SSKV17]. **discretised** [Kaz18, KRR18]. **Discretization** [AK17c, BK15a, BAK18, CM19a, CH17b, FP16b, GDCK19, GRS19, GG15, JZS16, LX15a, LSP18, MM15c, MFWK18, SM19a, VS15a, Wan18a, XDY16, ZJG+15]. **discretizations** [BVZ17, CW17, HB16, Moo17, PSW18, RNPK15]. **discretize** [LW19b]. **discretize-then-optimize** [LW19b]. **discretized** [CHS15, GS18b, MS19a, yZyMxG+16]. **discriminative** [LWLL18]. **disease** [CNQRR17, FH18]. **disjoint** [FFP16]. **disk** [MS19b]. **dispersal** [ZLF18]. **Dispersion** [CDP19, NS16, TNTL18, Wu17]. **dispersive** [ÁD17, DLM17, JB18, LHLL18, MFWK18, NZ15]. **displacement** [AG16a, LRX16, YSL+18, ZCH18, ZZZ+17]. **displacement-function** [AG16a]. **disposal** [LYS19]. **dissipative** [AY19, MM15c, MFWK18, WW19a]. **dissipative-dispersive** [MFWK18]. **Dissipativity** [WL17a]. **dissolution** [BBPR15]. **distance** [BPD15b, DI19, RFLM16, UG18, WCS17]. **distinct** [AAKW16, IAAW18]. **distinctive** [BS17a]. **distortion** [WP17]. **Distributed** [Ple17, CRR16, CHS+18, CWH18, LRL+18, MR15, PHD17, ZC16b]. **Distribution** [AMRM17, ÁRS16, (Ba18, COGD19, CCC19, CY18a, CCRN19, CLPZ17, DNK19, DG16b, EDO19, Ery16, GH17b, GUB15, HMKCR19, HG19, JGAFAL19, KV19b, KKW16, LM15, MDVM17, Mar19a, MRMA15, MRMA17, NC19, NADK18, NZ16, OK16, RABB19, SKC+19, VZDV18, Wan15b, Wan17a, Wan18c, Wan18h, WZS19, WS16, WL17c, WLC+18, WZ18, Wu18, WH19, ZH16, ZG19a]. **distribution-free** [CCC19]. **distributions** [ARCA+19, AR15b, BSLL19, CDN19, Col16, CAO+19, DD18a, EG17, Hui16, MVPN15, NKD+19, OAS19, SBC16, SRA+15, TJA18, TLTJ18, Wan18e]. **disturbances** [ZWWW19]. **div** [KR18]. **divergence** [AY18, Cro15, YP18]. **divergent** [SJRR17]. **divide** [LRL+18]. **divide-and-conquer** [LRL+18]. **divided** [ZD19]. **dividends** [TB18, YCW17]. **division** [ALMLM17, SHW19]. **divisor** [BWS17]. **Domain** [RL18, ALC19, AKHSU18, AM15b, AMS17, AEHVM18, BV18, BIJM+19, BBQ18, Bot16, CLC16, Cou19, DLM17, DB15, Elg19, GHM18, GMCD15, GC17, GK18a, HA19, JL16a, KK15, LHLL18, MCGNBD17, SM19a, SM15a, SVL19, SMS18, Sun19, TSMO17, TDA18, Vab18, VG15, VS15b, ZCS+19, ZY18]. **domains** [BD16, CJCDLL15, CLV16, CVW17, CLVW18, DAM15b, Elg19, FJ19, FSNS16, FMP+15, HZ17a, KV19a, QDY+19, SLW17, VCL+19, WHWY18, XDW18, ZWGL18]. **dominance** [OLPT16]. **dominant** [GLLS16, ZP19]. **dominated** [HSWH15, Jeo15, Jin16]. **dominating** [BGMS16]. **double**

[And18, FM19a, HWXC19a, HWXC19b, JK19, Qi19, SM18, YS19, ZS17a]. **Doubling** [wCW15a]. **Doubly** [KW18, DL16b, RW16]. **Douglas** [HOS16]. **down** [DNK19]. **downdating** [SVGM17]. **DPCG** [DVJ18]. **Dragomir** [AAKT19]. **dramatically** [BMLR15]. **drawing** [ZF15]. **Drazin** [SS16b]. **DRBEM** [Mer19]. **drift** [AH15, BHN15a, HHR16, IÇ18, KHLY17]. **drift-flux** [BHN15a]. **drift-implicit** [HHR16]. **driven** [AK16, CG17a, CG19, LW15, LSL18, YCF18, YS19]. **driving** [BM19a]. **drop** [BV16a, BG15]. **Drude** [NZ15, SLS18]. **drug** [FNdO15]. **DSF** [MT19]. **DSG3** [NTPVNTDT15]. **DtN** [GYX17]. **Dual** [SBCJ18, dMPF15, AMRM17, CRCM16, CDZ16, DXML19, KYY15, LWV18, PST18, RW15, TBY17]. **dual-continuum** [LWV18]. **dual-phase-lagging** [CRCM16]. **duality** [HR16, MLS15, ZNS18]. **duality-based** [HR16]. **Dubuc** [Vis19]. **Dubuc-Deslauriers** [Vis19]. **due** [AVGCMVM17]. **Dunkl** [GB16]. **dwarfism** [AALMLM19]. **dyadic** [ZS18c]. **Dynamic** [AMM19, CG19, CW15b, DLY18, XGH18, dMPF15, BG15, CM19a, CFMN15, DKP+19, DQIM18, DCNY18, FJD17, FS15, GYLQ16, HH19a, JHJB17, JYP18, JQWW16, ME18, Mar19b, OAN17, SBP17, SSCM18, Sun16, TEG15, VFN18, WCS17, ZG17, ZWWW19]. **Dynamical** [ALS19, BHMT16, ADMV19, AY19, APYW19, BJK19, CJT17, CP16, DMM18, KVO18, KBT15, Pul17, SCMS18, SM16, TJSW19, Xu15]. **dynamically** [CPZ19, MDG17a]. **Dynamics** [CCT19, HVMR19, KSD17, LZX19, ACLM18, ACMT17b, Bad18, BJK15, EGK17, ESSE18, GOGM17, GKN18, GKM18, Hei15, HMT15, LS17a, LKN17, LMUZ18, MG15b, MA16, Nat19, Ogu17, PC17, PC18a, Yua15, ZCST18, ZHH+19].

Ebola [LRRV18]. **economic** [SGK16]. **economical** [SSW19]. **economics** [BGNGR+17, VAMGR17]. **economy** [SSCM18]. **eddy** [AL19c]. **Eden** [ADMV19]. **Edge** [RCPA15, RRS19, BCS17, GJ17, KPS16]. **Editorial** [Ano18b, Ano18c, Ano18d, Ano18e, CBP18, DLY18, LPW+19, ZDFF18, Ano18a, Ano18f, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18g, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r]. **Effect** [GCTGC16, TLL16, BYYV16, JBFS15, JL19b]. **Effective** [LHJR15, QDBG18]. **Effectiveness** [BYWPA19, CNJM18]. **Effects** [KCDACC17, ABL+19, BD19, HJ17b, Lu18, NCF+19, SH15]. **efficiency** [ALMLM16, CCC19, HMT15, KElY16, PP19, SS18b, SRH17]. **Efficient** [AIS+17b, ACEJ18, BBCP16, BZ16b, CFSS18a, CDR18, CC15, DM16a, DGN19, HJ17a, HOM17, HRO16, Jan17a, JN19, KS17b, OG16, Pap16a, Prz19, RANG15, SS16a, SW17a, WLLC18, XMW+15, XM16, XLS+19, ZuI17, ZDL16, AFH16, ABHVM16, AAB+18b, AR15c, BGMM18, BAMM19, BSGM19, BFMP19, BLM16, CHX18, CGSS17, CJ19, CGvA+15, CJSCT18, DIS+18, DIP+19, DLM16a, Fat16, GB18, Haj19, JK19, KR18, LQZ16, LRL+18, LZ16c, LL18, LSL15, MD19, MMD15, NBAK19, OAN17, PC18b, RVC19, Sar19, SS16c, SAH15, SKBT16, SK15, TP19, WXJ19, WCW19, Wat16, XqYL+15, Xu17, YCX19, YOK15, YP17, dBGMUA18]. **efficiently** [CJ18]. **eigendata** [YB15]. **eigendecomposition** [BW16]. **eigenfunction** [LQZ16]. **Eigenmaps** [YZ15b]. **eigenpairs** [AvG16, CQW17, KLL18, LLV18a, Mia18, RS18, Xie19]. **eigenspaces** [Tru19]. **eigenvalue** [Ais17a, Bog16, CDH+17, CHYZ19, CDR18, DZ18, GLT16, GLZ18, Haj19, HMP15, JL15,

LKS17, LZL16, LLL19b, LWZZ19, LX15b, MJ18a, MT16a, MT19, OV17, PMN19, QWS15, Reu16b, Reu17, SvG15, VK16, WD16, WP16a, Xie19, YBLH17, YSG18, YB15, Yin19]. **eigenvalues** [Elo19, KLK16a, LX15b, SY18, Vej18]. **eigenvector** [CS19, FR18a]. **eigenvector-like** [FR18a]. **eigenvectors** [BB16, SvG15]. **eight** [MA16, PS15]. **eight-step** [PS15]. **Eighth** [HH18a, BGMM18, CMQT16, GKN18, LKN17, MBM17]. **eighth-order** [BGMM18, CMQT16, GKN18, LKN17]. **eikonal** [CV19]. **Einstein** [Bad18]. **either** [RRM19]. **elastic** [AG16a, CLS18, CLZW19, CY15, Don18, ESI+19, RL18, TLLL19, VMR17, XH15, Zha19a, ZBL+16]. **elasticity** [CZ17b, CL19c, DGM16a, FCM19, GKPS19, HQ18, LSD15, ML19a, PHCG16, QWZ16, SL18, WXW15, WWWZ16, Yi19]. **elasto** [HR16]. **elasto-plastic** [HR16]. **elastodynamic** [Ceb17]. **elastodynamics** [ZYF19]. **elastoplasticity** [CH18]. **electric** [TKMT17]. **electrical** [AMM19, CMHHS17, Sch18, dAFvdMR19]. **electrocardiology** [OS15]. **electrochemical** [HHS+15]. **electrodynamics** [VF17]. **electromagnetic** [BN19, BFLP15, CMM17, DLM17, LMM19, PSS17, WSG+19]. **electromagnetics** [vtWvdHvdVV16]. **electromagnetism** [Rad17]. **electroneutrality** [ABL+19]. **electrophysiology** [COdSR16]. **electrostatic** [MXW17]. **electrostatics** [DXZ18]. **Element** [BBG19b, BV16b, BV16c, GLS15, GTC16, LS17b, MWY16b, PG16, RP15, SVL19, ZWW+18, ACLY19, AHMY19, AFM19, BV18, BK15a, BTKM15, BCS17, Bou18, BH17b, BN15, CCZZ16, CM19a, CDF+16, CL19a, CHS15, CZ17b, CFX17, CCX18, CZ19b, CK16, CY15, CL19d, CL19c, Cou19, DKP+19, DS19, DAM15b, DA19, DXZ18, DGM19, ES18, DFS15, DD18b, Dun17, DAAF16, EJJ15, ESI+19, FLN16, FCM19, GCZ17, GZD+19, GDQ17, GD17, GG15, GM19, GHL19, GSRJ18, HSWH15, HH16, HS18c, HM19a, HHKR15, HC15, HRGZ17, HHZ18, HMY19, JM15, JL16a, JL16b, JLLZ16, JLCZ17, Ku16, LS17a, LC15a, LKS17, LHK19, LA15c, LL16b, LHY16, LLCG16, LMW18, LCH18, LGLC18, LGYC19, LLG19, LSYY19, LYS19, LHY19, LLSM15, Lin16, LLC18, LLY19, LFKG16, MM15b, MWY15b, MWY15a, MWY16a, MY18, Mu19a, NSYX17, OZ17, QM15, QDBG18, RP16a, RR16, RR18, SKB15, SSW19]. **element** [SYZ19, SAT15, SSZL16, Sun19, SH15, SI16, TH19, Tho16, TZZ18, VFGPG+18, WWWZ16, WWZZ16, Wan18a, WCW19, WZWJ19, WD16, WAGVRB19, vtWvdHvdVV16, XDW18, YZ16, YCF18, YSL+18, ZNG15, Zha15b, ZZZ+17, ZHY+17, ZCZM17, ZZZ18, ZYZ18, ZL18b, ZL19, ZHC19, ZCS+19, ZYF19, ZYL19, ZG19c]. **element-free** [DAM15b]. **element-upwind** [HSWH15]. **element/finite** [DA19]. **element/volume** [AM16]. **elementary** [MVC19, Mel19, ZS18c]. **Elements** [MS15b, AM17a, Arm18, BI17, CFJMVG16, Che18, DLM+19, GK19a, HLZ19, KYS16, LSLZ17, LN17, LN19, MLSK16, XH15, ZLS+15, ZM16a, ZML16, ZG19c]. **elevation** [SYT16]. **eliminating** [ARTY19]. **elimination** [CH19a, ML17a]. **ellipse** [UG18]. **ellipsoid** [JCH17, UG18]. **Elliptic** [FMC+18, Bog19, BW19, BLP17, BK19b, BySZ19, BH17b, BN15, CWXW17, CTZK18, CZ15, CZLV17, CH19a, CLV16, CL19d, DYZ18, FLZ19, Fuk15, GUB+17, GFPGF19, HM16, HH16, HLZ19, JL16b, KCX17, LX16a, LCH18, LCZ18, LW19b, LL17, MJ18a, Mat18, MS19a, MZ19, Mu19a, Mu19b, Mus17, OCU17, PW16, SSW19, SYZ19, Sun19, SI16, VARC17, WHWY18, XDW18, XZN+19, YP18, Yan17, YGC19, ZNG15, ZCL16, ZG19c]. **Elsasser** [LHK19]. **embedded** [AK15, Elg19, PS15].

embedding [TSMO17]. **Emden** [RMA19, SGG19, SK15]. **Empirical** [ZLPF19, Nke18b, YS19]. **enabling** [QDG+15]. **encoding** [MJ18b]. **encryption** [SE18]. **end** [BGNGR+17]. **endpoint** [Wan18b]. **energetic** [ADG19, HL18b]. **Energy** [BGS19, CH17b, Son16, Yos17, CFWW19, Don18, FS19b, LD19a, LD19b, LMW18, LHY19, Lu15c, MDVR19, SS18b, SEV+18, WCW15b, XDY16, YZH18, Yao18, BGI18]. **Energy-conserving** [BGS19, FS19b, WCW15b]. **energy-preserving** [LD19a, LD19b, LMW18]. **energy-stable** [SEV+18]. **engine** [TBAH16]. **Engineering** [SDG15, VACR15, VAMGR17, ZDGM17]. **engines** [OLRPdCJ19]. **Enhanced** [AW19a, OD17, GSM18, PS18]. **enhancement** [LZL+18a]. **entire** [SH19]. **entries** [BCC+18, YB15]. **entropy** [DSDV15, JD16, KPP19, MJ18b, PT17b, RKS16]. **envelope** [BRW16, YP17]. **envelopment** [KElY16]. **environment** [KJ19, NS18, Nke18b]. **environmental** [RTV15]. **environments** [FLMS16]. **epidemic** [FH16, KJ19, KPW17, LPST17, LZX19, ZLF18]. **epidemics** [BJK15]. **equality** [BLXD18, Dia18, LMUZ18, Mar19a]. **Equation** [DWS+18, AVB17, AHM18, AKHSU18, AMP18, AL19b, AHL17, AR19, AK17b, AFN17, Bac18, BBPS17, BBCK19, BGMS16, BT17, Bay15, BBQ18, BLM16, BKN16, Bou18, BGS19, BMG+19, CLS18, CLC18a, COP17, CJCDLL15, CRGB17, CR17, CYY15a, CDW15, CCW17, CCNQ+16, CCNQ+17, CRR16, CL19a, CPB19, CJLT15, CHR+15, CLC16, CQ17, CL18b, Che19b, CXZ19, CZ19b, CFWW19, CRG19, CV19, CJV17, CNQR+18, CH17b, DJC15, DP17a, DA19, DLM16a, DT17, Din16, DMS19, DB15, Dos19, DT16, Dun17, ESSE18, Els15, FM19a, FLJT18, FYY17, FFP16, FJLB18, FS19b, GLS15, GC15, GCZ17, GCY18, GHM17, GHB17, GR16, GT19, GHL19, HCL17, HA18, HKAR18, HSWH15, HL18b, HMH18, HWH19a, HZ17a, HLZ19, ID18, JM18, Jeb19, JHK17, JL16a, JK18, KV19a, KR17, KDB17, KH18, KV19b, KV17, KS16, KS17b, KAA16]. **equation** [KAS18, LP19, LHJ16, LMW18, LLL19a, LSDY19, LH19, LHY19, LS18a, LZ15, LZZL17, Liu18, LW19c, LZRH19, MDG17a, MDVM17, MDGVR17, MDG19, MM18, MK17, Mia18, MS17c, Miy19, Moh19, Mol15, MFWK18, OSMZ18, PD17, PPM16, PA19, PT17a, PST18, RTV15, RQ16, RCBG17, RCBG19, Ros17, SR16a, SEV+18, SOMF19, SB18, SEÖ16, Sey18, SLA19, SSZ19, SWH16, SJ17, SJ18, SVAKGR19b, SKBT16, SS19b, SFGJR+16, Son16, SYW19, SO16, TJB17, Tho16, TKMT17, TNTL18, UG18, VFFGV16, VFGPG+17, WCW15b, WWZ15, WW16a, WHZ16, WSL17, WD18, WLW19, WD19, WSL19, WCW19, WR16, WCS18, Wol17, Wu17, XH15, Xia17, XY16, XZ19, XD17, Yak19, YZH18, YCX19, YX19, YAA19, YB17, YFS18, YH18b, ZL18a, ZM15a, ZJ17a, Zha18, ZH18, Zha19a, Zha17b, ZZG+19, ZCD17]. **equation-based** [Els15]. **Equations** [BCMP16, AFH16, AÖ17, ABN+18, AH16a, AKR18, AL18, ALC19, Akh19, AM16, AN17a, AN19, AST19, ABK19, AL16, AK19, ABHVM16, ABBB17, AR15a, AR16, ACAC17, ACDT19, AZ17, AW19b, ABT16, AAC17, AJ17, AJY18, AD18, AHKT15, AHK19, AKM18, BM17a, BM17b, BM18, BJM16, BH17a, BJ16, BBCP16, BBC+18, BO18, BBB17a, BDA17, BK15b, BB18, Baz15, BPP17, Beh16, BMM17, BAK18, BS17b, BKLR16, BG17, BGL17, BHRR18, BS19, Bie17, Bog15, BLP17, BS15, Bot16, BAI17, BK19c, BH17b, BR15b, BK19d, BCVV18, CCJ18, CMHHS17, CGPR17, CW15a, CHS15, CT16, CW16a, CFX17, CLW17, CHS17, CZLV17, CLC18b, CL19b,

CLA19, CK16, CS18b, wCW15a, CN18, CPZ19, Con18, CMQT16, CLM19, CNQRR18, DDR19, DKL+18, DBX19, DF15, DNL15, DNL16, DHAM17, Das18]. **equations** [DL16a, DSA15, DAM15b, DG16a, DFLM19, DIJ16, DY15, DYZ18, DD18b, DLM+19, Dzh16, Dzh18, Elg19, Els15, EC18, EBJS19, ERR18, EHTL19, EE16, FwC17, FNZ18, FL23, FSNS16, FLN16, GZD+19, GLL19, GDCK19, GGG19, GUB+17, GMG19, GV17, GYS17, GAA16, GKN16, GLSW16, GLSW18, GR19, GHZ+15, GG15, Güc17, GM17b, GGC15, GH16c, GGRN17, GQM16, Guo17, GLMY18, GL19, HMD19, HMT+17, HHOT17, HP17, HR15, HSAR18, HXX16, HH16, HM19a, HCA+18, HHEG17, HH18a, HS17b, HSAA19, HZ19, HLM18, HMY19, HB16, HW17, HIS16, IIA15, IN16, IÇ18, JHJB17, JAN17b, JBT16, JB18, JY17, JL19a, JZ18, JGTB15, JC15, JMS17, JD16, JLCZ17, JS19b, KB17, KP15, KS17a, KGES19, KRR18, KMB15, KKS16, KR16, Kha17, KDW17b, KDW17a, KYS16, KLC17, KMV16, KHLY17, KV18b, KPT15]. **equations** [KEB19, KBG17, KR18, KW18, KB16, KPS17, KtTBK18, KMB+18, KK19c, Lad15, Lan18, LX18, LXW19, LW19a, LLT16, LC15a, Lee18, LHK19, LaT15, La19, LP15b, LCL16, LW17a, LWL17, LH18, LSG18, LHLL18, LDG19, LLG19, LLW18, LZ16a, LYG17, Lin16, LC18, LCZ18, LL15, LZY15, LM15, LZ16b, LTY17, LDW17, LHPZ18, LDW18, LF18, LLC18, LQ19, LSXL19, LLY19, LFWC19, LL17, LNP17, LSL17, LSL18, Luo18, LYG15, LM18, MFX15, MDT16, MDG17b, MDAP19, MVM19, MG15a, MMO15, MS17a, MD18, MMS19, MN17, MN19a, ME18, Mao15, MYM16, Mao16, MT17b, MT17a, Mär17, MHV17, MPH18, MV16a, MS19a, MII16, ML19b, MOPP18, Men17, Mic18, MMZ19, Mil15, Mil16, MT16b, MV16b, MSV18, MV18, MHL16, MH16a, MH16b, MA18, MSH18, MAS19, Miy17, MM15c, MTKO17, MC18, Mok15, MR15, MJS19, MWY15b]. **equations** [MTS17, MS15b, NDN19, NE17, NBAK19, NN18a, Nem15, NSM16, NT15, NSW15, Ngo19a, NCPD19, NAM18, OM17a, PS18, PSK16, PMN19, PBP16, PW16, Par15, PRP19, PB15, PHD17, Pis15, Pis17, Ple17, QLT+17, QM15, ROB17, RRM18, RVA15, RM17, RWW17, RZ19a, RC19, Reu16a, RKS16, RM19, SF18, SE16, SAC17, SLH18, SAA18, Sak17, SHS+15, Sar19, SM19a, SDH17, SR16c, Sha15, SPK18, SS18c, SLS18, SJ17, SK16, SGG19, uIuD18, SK15, SAT15, SYD15, SYD17, SJL16a, SC18, SZJ19, SRH17, SSG16, SH18, SSZL16, SLW17, TMS+17, TYS17, TH19, TX19, TV18, TZZ18, TP19, TGSS17, TN19, Vab18, VG17, VX19, VL15, WWZZ16, WWM17, Wan17b, Wan18a, WG18, WKBB17, WZ17, WL17a, WA17, WLM16, Wu19, XHZ17, XY19, XDY16, XF16, XH19, Yam17, Yam19, YY16]. **equations** [Yan17, YHZ18, YL19a, YZZ19, Yao18, YTSZ15, YJBM19, YFwC19, YZ15c, YH18b, ZCST18, ZS18a, ZSL15, yZLX15, ZM15b, ZZW16, ZH16, Zha16, yZ17, ZCFW17, ZZZ18, ZT18, ZSL18, ZX19, ZP19, ZL17c, ZJ17b, ZG19b, ZZ15, ZN19, ZWH15a, ZWX18, dlHV16, iW16]. **equations-** [wCW15a]. **equiareality** [YZ15a]. **equidistant** [AS19b, CH19b]. **equidistributing** [HH16]. **equilibria** [RANG15, Uda18]. **Equilibrium** [XY15, ABT17, AG16a, BHMT16, DMMSK17, DK16, FZ15, Man15, MP18, NDH16, NH19, OGR17b, OGR19, SJRR17, Sha15]. **EQUIP** [BGI18]. **equity** [PZ18, ZY19a]. **equity-linked** [PZ18, ZY19a]. **Equivalence** [HLBP15, GKBG17, MP15, MSZ18, ZS18a]. **equivalences** [HJS19]. **equivalent** [HJL18, NP19]. **equivariant** [RFO17]. **Erlang** [BRA16, GHL18]. **Erlangized** [DYD19]. **erosion** [AFdOdS15, ZFK18]. **Errata** [MHY21]. **Erratum**

[BKMO20, DNL16, JSW18b]. **Error** [AZ17, ALMLM16, AJ17, BJM16, BS17c, CM19a, DDP16, DVS15, DAM15a, DM17a, DA19, GWLL18, ID18, KVO18, Lad15, Luo18, MAK19, Mir16, SSZL16, TX19, VS15a, XDY16, ZHS18, ZLAA15, ZC16b, AA16, AHMY19, Akh19, AK18, AW19a, AHKT15, AHK19, AK17c, BYW18, BBGG19, BLM16, CLC18a, CZ19a, wCW15a, CST$^+$16, Con18, DAM15b, DS15b, DGM16a, EJJ15, FSNS16, GZD$^+$19, GYX17, GPHAPR15, GP16, GGRN17, GHL19, GSRJ18, HOS16, HH16, IN16, Jan17a, JBFS15, JMSL19, KS18, KP15, KMB15, KH18, Ku16, LC17b, MTCC15, MM15a, Mat18, MOY18, Miy15, Mu19a, Mu19b, OOO15, PBP16, Par15, Prz15, SF16, SW17d, Tho16, US19, Wan15a, WWZ15, WHZ16, WKBB17, XY19, YBLH17, YGC19, ZCZM17, ZLZ17, ZP19]. **Error-adaptive** [MAK19]. **error-free** [OOO15]. **errors** [EJJ16, GH16b, LX15b]. **erythropoiesis** [ACLM18]. **Escherichia** [BYWPA19]. **ESERK5** [MVK19]. **Essential** [Mär17, Wu16b]. **essentially** [JN18]. **established** [CNQRR17]. **estate** [HW18a]. **Estimate** [CZ15, AJ18, CZ19a, DAM15a, DAM15b, DA19, GVHMR17, Mu19a, Par15, WHZ16]. **estimates** [AA16, AMRM17, AK17c, BS17c, CLC18a, CM19a, FwC17, FM19b, GYX17, GPHAPR15, GP16, GGRN17, KC17, KP15, KMB15, KH18, Ku16, MPH18, Mu19b, NMKK19, NW19, PBP16, PGRC18b, TX19, US19, VS15a, XDY16, YBLH17, ZLZ17, ZHS18]. **Estimating** [ZS19, CL18b, EJJ16, KElY16, KK17, LYG15, VZDV18, WSL17, YY16]. **Estimation** [GVMR16, NAK17, Wan18c, Wan18d, AG18, AJY18, BSLL18, BSLL19, CCY18, CCZ$^+$18, Con18, CAO$^+$19, DLM16b, EDO19, FR19, GLTW15, GK19b, HZ17b, IANS15, JJX17, LC17b, LSZB17, MTCC15, Mar18, MM15a, NADK18, SF16, TJA18, Wan15a, Wan15b, WS19, WP16a, WS16, Xu15, YW16, YC19]. **estimations** [DWQ16, Moh17, YGC19]. **estimator** [AHMY19, DGM16a, GYQS15, RW15, Wu16a]. **estimators** [AHKT15, AHK19, GWT18, Jan17a, KD19, MRMA15, MRMA17]. **ethanol** [DQIM18]. **Euclidean** [ADD$^+$16, BAAA$^+$15]. **Euler** [TGJ19, CW15a, Dub16, DAAF16, FGS19, HK07, HLM18, KHLY17, LYG17, Mao15, Mao16, Mil16, MSH18, OM17a, RT18b, SRH17, YZZ19, YH18a, yZLX15, ZSL18]. **Eulerian** [BSS15, LS17a]. **European** [RZ19b, DS17a, HZ18b, HT18, JSW18a, MV16d, NP19, SPG$^+$16b]. **evaluate** [SSCM18]. **Evaluation** [CNJM18, IGRL17, AL18, BEHL17, Ceb17, CY18b, DM16a, EJJ15, ET19, HX15, HZ17a, MIT15a, NGGA$^+$18, RNM16, RANG15, SIAJ$^+$19, Sho18, WLC$^+$18, ZLS$^+$15, ZCS$^+$19]. **evaluations** [EBJS19]. **even** [TDA18]. **Eventual** [AKHSU18]. **everywhere** [KP19]. **evidence** [SM19b]. **evolution** [ABN$^+$18, AHK19, BYWPA19, BHRR18, CXZ19, HND18, JC19, KSW19, LLT16, LLHO18, LQ19, NY19, Ple17, SJ17]. **Evolutionary** [KS17a, PBS15, AAC17, HH19a, ICMPG16, MM15c, Ngo19b, SM19a, SW16a, SW16b]. **evolving** [SAT15]. **evolving-in-time** [SAT15]. **Exact** [KKK16, NCF$^+$19, RdSMO17, RdSMO18, Zha18, AR15b, CCIL18, CD16b, GL19, HZ17a, LY15a, LXW19, LL16b, LSH18a, LSXL19, MDVR19, NL17, NC19, RCBG19, Rót15, ZSL15]. **Example** [BYWPA19]. **examples** [Yam19]. **excess** [ALS18, QLZ19]. **excess-of-loss** [ALS18]. **exchange** [PG19, TBAH16, ZS17c]. **exchangeability** [BKMO19, BKMO20]. **exchangeable** [BE15, EG17]. **excited** [KTT16]. **executing** [DS15a]. **exhaust** [DMCC$^+$18]. **Existence** [BYYV16, BT17, CLS18, CFG$^+$19, FMC$^+$18, HSAR18, LZY15, Ros17, FM19a, HKAR18, LSW19, MTKO17, SLW17]. **expanded**

[CW16a, LLG19, YP18]. **expansion** [GLP16, KDB17, LHM16, ZS19, ZY19a]. **expansions** [EW18, HOM17, KSDM16, LQZ16, LWC17, NSYX17, PHCG16]. **expectation** [Sun16]. **expectations** [Hag15]. **expected** [PX17, WS16, YCW17]. **expenditure** [YL19b]. **experiment** [SR16a]. **experimental** [BTKM15, DGN19, NGGFM17]. **experiments** [Goć15, NGGFM16, TYQ+19, TN19]. **expiry** [KDB17]. **Explicit** [AHBC15, HK18, Hu16, Lu15a, MS18, MF16, ALC19, ACLM18, BKK18, BCMP16, DBdLdM+19, DIJ16, FR18b, GPHAPR17, GQM16, HMD19, HPW16, IDGH18, JS17, JK18, LSW19, MVK19, MP18, Sta19, SV16a, WLZ15, WZS18a, WLM16, YGC19]. **explicit-implicit** [ALC19, BKK18]. **exploiting** [lCCVV18]. **exploration** [JGGS16]. **exponent** [BGMS16, SV16a]. **Exponential** [AAKW16, BM19a, BHU18, DT16, LY15a, LJ15, MP17a, WW19a, YL19a, ZSL15, ZLF18, ZWH15a, AMP18, AMCR19, AK19, AHS19, BZ19a, BR15a, BK15c, Bot16, BK19c, CZ19a, CW15a, CY18a, DEY19, DLS17, DIS+18, DMR19, FdOP17, Gun19, GUB15, JY19, KV17, Lan18, LPT17, LYG15, MDGVR17, Mil15, NS17, NN17, Nie15, OK16, OAS19, RSID16, Sha15, SJL16b, WCW15b, Wan18d, WZ16, ZNS18]. **exponential-Lévy** [DLS17]. **Exponentially** [CDP17, MR19, CL19a, FR18b, Mok15]. **exponentially-fitted** [FR18b]. **exponentials** [DSA16, GAA19, GAA21]. **exponentiated** [HG19]. **exposure** [PC18a]. **expressions** [JN19, RdSMO17, RdSMO18]. **Extended** [AY19, AM15a, MS17b, NP15, WGLV16, ZL17b, GC18, HWZ18b, KD19, KK17, OK16, QDY+19, Ruj16, WL19a]. **Extending** [AM15b, AEHVM18, BDGO15, JMN+16]. **extension** [DP19a, DP19b, DPN15, GHC16, KBG17, NADK18, NY19, dFG19]. **extensions** [OV17, ST16a]. **extensive** [ZX16]. **external** [EGK17, SS18b, ZWWW19]. **Extinction** [DV16, VM15]. **Extinction-time** [DV16]. **extraction** [DS15a]. **extragradient** [TH18]. **extraneous** [GKN18, LKN17]. **extrapolated** [BK15c, MVQDdR+18, MVK19]. **Extrapolation** [ZDF+17, BR15a, Tan17, ZHWS16]. **Extremal** [DWXO15]. **extreme** [Ahn19, ID16]. **extremum** [WZS+18b].

F [DLY18]. **fabric** [DWS+18]. **Fabrizio** [FJLB18, YMGA19]. **facilities** [FLMS16]. **factor** [AL19a, ACLM18, GVMR16, HT18]. **Factorization** [LSS19, SVGM17, Byl18, HY19a, LHJR15, SY18, SY19, WCW18, YLZG18, ZST15, yZyMxG+16, dBAAA15]. **factorizations** [Li18]. **factors** [BR15b, DB15, KL15, WW16a]. **fading** [Liu16, WS19]. **Faedo** [CPB19]. **fail** [LO19]. **fails** [RVA15]. **failure** [GMSR18, GMSR21, NMKK19]. **Fair** [KP19]. **faithful** [CNT17]. **Falkner** [RMVA17]. **Falkner-type** [RMVA17]. **falsi** [SV19]. **families** [CCT19, DD17, HMT15, MBM17, SPCSA16, Zha18]. **Family** [YL19b, ARTY19, ACMT17b, BMM17, BAMM19, BSGM19, BSS15, CCTV17, CMTV17, CGT18, Das18, DG16b, DLM+19, GKN18, GKM18, HH18a, HH18b, HVMR19, KDB18, KMB+18, LKN17, LX16a, MLSK16, NKD+19, OK16, OCU17, OGR17a, LGB18, OCU18, PP18b, SBC16, SS18d, Wan15b, WWL15, ZJ17a, ZNS18, Zha19a, ZS17b]. **far** [WSG+19]. **far-field** [WSG+19]. **FARGO** [LL16a]. **Farlie** [DG16b]. **Fast** [CDDD19, DMP19, FM19b, HL15, HZ17a, KV18b, Miy17, Miy18, SIAJ+19, TB18, WKXT15, WC17, WCLL18, WZS+18b, ACDT19, DGH15, DKLP15, DMS19, EK19,

EL19, Fuk15, GH19a, GGC+18, JCH17, LFWC19, LL17, LK18, MT17a, NSM16, NAM18, PW17, PST18, RMA19, SAH15, STS15, ZX19]. **fast-converging** [RMA19]. **FDE** [ZZ19]. **FDEs** [AJ18]. **FDM** [Mer19]. **FDTD** [JB18, NZ15]. **FDV** [Par15]. **FE** [ZCFW17]. **feasibility** [LDL+19, MMRS15]. **feasible** [TBY17]. **FEAST** [Yin19]. **feature** [LZ19, NLG15, TYQ+19, WZBM18]. **features** [LAVMA18]. **featuring** [RTV15]. **feedback** [YT16, ZWWW19]. **Fejér** [AAKT19]. **Feller** [THL+17]. **FEM** [AG16b, AMP15, BOF+16, CLC18a, GM16a, GYX17, ML19a, SL18]. **FEM-based** [BOF+16]. **FEMs** [KP15]. **Fermi** [LZ15, PD17]. **ferrite** [LHY16]. **FETI** [BKK18]. **FETI-based** [BKK18]. **fever** [BdSFL16]. **FFT** [AL18, GKQW17]. **FFT-based** [AL18]. **FGM** [TJA18]. **Fictitious** [Sun19, Cou19, ZG19c]. **field** [AG16a, CS17, DLY18, LWW17, LAVMA18, MS15a, TKMT17, WSG+19]. **fields** [Che16a, DD16b, FFN+17, HLMS19]. **fifth** [CHVRT15, HWC16b, MVK19]. **fifth-order** [CHVRT15, HWC16b, MVK19]. **figures** [OGR17b, OGR19]. **filled** [ZXQH17]. **filling** [DFGS16, MPS19, YSCY17]. **film** [AN17a, AN19]. **films** [BG15]. **Filon** [LTY17, MFX15]. **Filon-type** [LTY17]. **filter** [HP15, LWLL18, LLD18, SRBD18, SZM+18, UPD+15, WZBM18]. **filtered** [Kaz18]. **filtering** [DLM16b, Liu16]. **Filters** [CRSV19, KK17, LLT16, LAVMA18, LRKV16]. **final** [CL18a]. **finance** [DKV16, HHEG17, LQZ16]. **financial** [AdHR17, BDF15, DSDV15, DF16b, Hai17, Nke18a, WSW15, YL18d]. **find** [DD16c]. **finders** [GKN18, GKM18, LKN17, PN16]. **Finding** [SAH15, BIR+17b, BW17, CN18, CT15, FWW+18, GZDC19, Kow17, LV16a, MMD15, PP18a, PP19, RP16b, XYZ15, Yao16, Yao18, ZCST18]. **fine** [ZFK18]. **fingering** [ZBL+16]. **Finite** [ASKG18, ABL+19, Bou18, BV16b, BV16c, CWXW17, CEJV16, ESI+19, GLS15, GTC16, JS19a, LS17b, LV16b, MC19, MWY16b, MS15b, PG16, RP15, SVL19, SH15, SI16, WCW19, ZWW+18, AHP19, AALMLM18, AM17a, ACLY19, AHMY19, AM16, AdHR17, ACAC17, AW19b, ABT16, Arm18, AFM19, BV18, BSLL19, BS18, BI17, BK15a, BTKM15, BSS15, BCS17, BH17b, BN15, CCZZ16, CM19a, CDF+16, CL19a, CPB19, CZ17b, CFX17, CCX18, CZ19b, CFWW19, CK16, CL19d, CL19c, CRR19, CEJ18, CROC16, Cou19, CP16, DKP+19, DF15, DMMSK17, DA19, DXZ18, DGM19, ES18, DFS15, DD18b, Dun17, DAAF16, DP19c, EG17, FFN+17, FLN16, FGF19, FCM19, GCZ17, GZD+19, GLL19, GDCK19, GUB+17, GG15, GM19, GHL19, GSRJ18, HS19, HSWH15, HH16, HS18c, HM19a, HHKR15, HHEG17, HC15, HRGZ17, HMY19, HLZ19, IGRL17, JM15, Jeb19]. **finite** [JL16a, JK18, JL16b, JLLZ16, JLCZ17, KD17, KYS16, Ku16, KAA16, KBL19, LS17a, LC15a, LBL15, LKS17, LHK19, LZC15, LA15c, LHY16, LSZ16, LLCG16, LCH18, LGLC18, LGYC19, LLG19, LSYY19, LHY19, LLSM15, Lin16, LWZ17, LCX18, LLC18, LLY19, LW19c, LMA18, LN17, LN19, LFKG16, MDG17a, MVdRE+17, MVQDdR+18, MM15b, Moh17, MWY15b, MWY15a, MWY16a, MY18, Mu19a, NSYX17, OZ17, QM15, RNPK15, RP16a, RR16, RR18, SBU+17, SS19a, SKB15, SSW19, SYZ19, SKBT16, SAT15, SSZL16, Sun19, TYS17, TH19, TBR16, Tho16, TZZ18, Tra15, UGG+19, VFGPG+18, VM15, WWWZ16, WWZZ16, Wan18a, WLW19, WD19, WSL19, WZWJ19, WL19b, WD16, WAGVRB19, Wu17, XH15, Xin16, XDW18, YZ16, YZY17, YCF18, Yos17, YSL+18, ZNG15, Zha15b, ZM16a, ZZZ+17, ZHY+17, ZCZM17, ZZZ18, ZL18b, ZL19, ZKRL15, ZML16, ZG19c, dSBV16]. **finite-difference** [KAA16, MDG17a]. **finite-dimensional** [KBL19].

finite-element [AHMY19, AM16, HM19a]. **finite-element/volume** [AM16]. **finite-part** [LWZ17]. **finite-time** [YZY17]. **finiteness** [BPD15b]. **FIR** [UPD+15]. **First** [STZ16, SYD15, CQ17, CNQRR18, DKL+18, DBdLdM+19, DLM16a, FF15, GOGM17, GLSW16, GLSW18, GGRN17, Guo17, Kha17, KKW16, Ku16, MTS17, NAM18, OP19, OGR17b, Par15, RRM19, SK16, VARC17, YP17, ZJG+15]. **first-** [RRM19]. **first-order** [CNQRR18, FF15, GLSW16, GLSW18, GGRN17, Guo17, Ku16, YP17, ZJG+15]. **Fisher** [BK19c, CRG19, MDG17a, MDGVR17, MDG19, RCBG17, RCBG19, Sta18]. **fit** [CDN19]. **fitness** [GLdCJS17]. **fitted** [CDP17, DP16, FYY17, FR18b, KMRS16, LWDW18, TFS17, VAR15, YAA19]. **Fitting** [GHL18, TK16, DT16, LXD+18, LLG+18, LZ19, VARC17, ZTGZ18]. **Fixed** [SHS+15, AMB19, BGL17, BP17a, CT16, DTKP17, FZW19, GKN18, Iid15, KEB19, KW18, KS17c, LKN17, NCF+19, PAC15, RMMRC15, dSBV16]. **fixed-stepsize** [KW18]. **fixing** [CEJ16, PCJ17]. **flame** [CD16a]. **flapping** [PST18]. **Fletcher** [JJ19]. **Flexible** [SHCJ19, YW16, xZWlC15]. **floating** [JHK17]. **flooding** [hShX17]. **Flow** [YWW19, AN17a, AN19, AC17a, AVGCMVM17, AdQdS16, ABB+15, AB16, BM19b, BBPR15, CYY15a, CM19a, CZ17b, CM18b, CFS19, CSW19, CLZW19, CLVW18, CZ16, DLW16a, DS19, DSOBK16, EKKT17, EAKS18, ELRR17, GCTGC16, HCSC16, JO17, Kau16, KAM16b, LWW17, LW17b, LLSZ17, MFWK18, OSC15, PBP16, PST18, PG16, RNPK15, RP15, SJRR17, SVW19, SLH15, TLL16, VCC+19, WCSL15, WZZ16, ZHY+17, ZWW+18, ZQJY18]. **flowfield** [Par15]. **flowfield-dependent** [Par15]. **flowgraph** [GMSRP16]. **flows** [AEKGP19, CVW17, ES18, GN18, GT17, IDGH18, KLM17, LW15, LHM16, LFKG16, SVL19, Xin16]. **Fluid** [BG15, CSW19, CZ16, ELRR17, Hei15, LS17a, LY15b, LLZ16, LWV18, LZS15, PBP16, PST18, SH15, Wat16, Yam19, ZHS18]. **fluid-fluid** [ZHS18]. **fluid-structure** [LY15b, SH15]. **fluidized** [MFK+15, OSC15]. **Flux** [MSV18, Vej18, Abd18, BHN15a, BIJM+19, KV16, KtTBK18, PT17a, TNTL18, ZH16, TBAH16]. **Flux-Corrected-Transport** [TBAH16]. **fluxes** [DGM19]. **fly** [CZ19a]. **Fokker** [FJLB18, HL18b, LP19, LP15b, SRA+15, Wol17, YHZ18]. **fold** [WH16]. **following** [HR16, Wu18]. **FOM** [LH18, ZHWS16]. **force** [EGK17, GZH19, LHJ16]. **forced** [AKHSU18]. **forces** [BM19a, Cou19, Gor16]. **Forchheimer** [AVB17, AC17a, AFM19, KSW19]. **Forcing** [HRRC19, AÖ17, ZH18]. **Forecast** [NGGL+19]. **forecasting** [BLH+17]. **foreign** [ZS17c]. **Foreword** [BLLM+15]. **form** [CFJMVG16, CGMGV15, DDP16, HZ18b, ID18, JB18, KP19, LA15b, LaTG17, LCC+15, LWC17, NN18a, PRRY18, PSW18, RVA15, RZ19b, Ruj16, SB19, SSG16, TV18, YP18, dR16]. **formalism** [SO16]. **format** [GH19b]. **formation** [MV16c]. **forms** [Guo18, SuSR16, ZW16, dR16]. **formula** [CCIL18, Das18, Don18, Dub16, HZ18b, Kam16a, MB15b, RZ19b, Ruj16, RT18b, SE16, ST16b, SH19, WLZ15, WLZ17]. **formulae** [AN17b, Ber15, SH18]. **formulas** [BDGO15, BCCB15, CBMPP15, GPHAPR15]. **formulation** [AdQdS16, AKM18, BBGG19, CWXW17, CW16a, DJAMJ17, DYZ18, GMdV19, HL18b, JHPT15, KK19c, LHLL18, LZA19, MV16b, MSV18, MV18, MWY16a, NCPD19, WWWZ16, Zha17b]. **formulations** [BEMA16, DMS19, GKQW17, LSYY19]. **Fornberg** [BAI17, CRGB17]. **Forts** [YZ18]. **Forward** [ZS17a, HRO16, Sun16]. **forward-backward** [HRO16, Sun16].

foundation [ZP16]. **four** [ARTY19, CQW16, LZ18a, SVAKGR19b, ZHH+19, ZHL15]. **four-point** [ARTY19]. **four-step** [SVAKGR19b, ZHH+19]. **Fourier** [AK19, Bad18, CYY15b, DKV16, Elg19, GKQW17, HM19a, HOM17, HRO16, LDK17, Lee18, LZZL17, PW17, WSG+19, WP16b]. **Fourier-Continuation** [Elg19]. **Fourier-cosine** [CYY15b, HOM17]. **Fourier-splitting** [Bad18]. **fourth** [BDA17, BMM17, BK16, CQW16, CFWW19, CV17, CMTV17, Dos19, HMT15, HIS16, LLL19b, MR19, MMZ19, PW16, RT18b, WD19, WSL19, WKBB17, ZJ17a, Zha19a]. **fourth-order** [BDA17, BK16, CV17, HIS16, LLL19b, PW16, WD19, WSL19, WKBB17, ZJ17a, Zha19a]. **Fox** [Meh19]. **fractal** [Bal17, CNJM18]. **fraction** [Ceb17, CPL+18, CPL+19b]. **Fractional** [Chu15, DQIM18, DLY18, MRS17, OM17b, TJSW19, Abd15, AAM18, AÖ17, ABN+18, AAKT19, AA18, AM19, AK19, AZ17, AJ17, AJ18, AJY18, AR19, BKMS18a, BKMS18b, BDA17, BT17, BB18, BS17b, BS19, BLP17, Bou18, BCVV18, CHX18, CPB19, CJLT15, CW16a, CLC16, CLC18b, CLA19, CT17a, CKB17, DMM18, DBX19, Das18, DAM15a, DSA15, DA19, DG16a, DWXO15, Din16, EBJS19, FLJT18, FM18b, FJLB18, FMR15, GDM16, GZD+19, GMG19, GB16, GMW18, GN18, GS15b, GHZ+15, GG15, HCL17, HND18, HA18, HCA+18, HMDSR19, HSAA19, HNT19, IAAW18, Kam16a, KCK18, KFT17, KLM18, KK19b, KJ19, KV19b, KPT15, KPS17, KAS18, LRRV18, Lee18, LW17a, LZL+18a, LDW18, LLY19, LFWC19, LF19, LMA18, LNP17, MDAP19, MVM19, MHAA15, MMS19, MO18a, Mar19b, MO18b, MNFS18, MDH19, Mic18, MKKV19, MA18]. **fractional** [MAS19, MLS15, MC18, Mok15, NE17, NSM16, OKGB19, PD17, PRP19, PTV17, PHD17, PC17, QLT+17, ROB17, RWW17, RZ19a, Reu16b, Reu17, SF18, SB18, SPK18, SLA19, SWZW15, SJ17, SJ18, Sho18, SS19b, SZJ19, SLQ16, SYW19, SI16, TJB17, TYS17, TAT18, THL+17, TNTL18, VDT19, WWZ15, WHZ16, WPA+18, WCW19, bWzZjH16, XY19, YGS18, YHZ18, YMGA19, YJBM19, Zak19, ZT18, ZH18, ZZG+19, ZZ18]. **fractional-in-space** [Lee18]. **fractional-order** [LRRV18, LZL+18a, MO18b, MDH19, MC18, OKGB19, ROB17, bWzZjH16, YMGA19]. **fractional-step** [AZ17]. **fracture** [EAKS18, LWW17, ZHY+17]. **fractured** [CSS19, EAKS18, LCX18, VCC+19, ZHY+17, ZWW+18]. **frame** [AMRM17, CG17a, DWS+18, HH19b, LSL15]. **frame-based** [HH19b]. **frames** [FGS19, Kre19, Vis19]. **framework** [CFR18, CMHHS17, DS17a, HT18, HWH19b, OM17b, PX17, PG19, RS16, TYQ+19, VŽ19, WH16, WLM16, XZXQ18, YL19a]. **FRAP** [MP15]. **Fredholm** [Beh16, DNL16, GAA16, XHZ17, BM18, BLM16, CHR+15, DJC15, DNL15, Dzh16, Dzh18, FSNS16, HXX16, HS17b, JD16, KS17a, KGES19, LHPZ18, MMO15, MN17, MN19a, Mol15, NN18a, Nem15, PMN19, PPM16, Reu16a, uIuD18, WW16a, XY19, XF16, YJBM19]. **free** [ABH19, Ahn15, AMP18, ACDT18, BMM17, BGMM18, BL16, CCC19, DAM15b, Fan15, HHLS18, HVMR19, HZ17c, KP19, KMB+18, KK19c, LF18, ML19a, OOO15, PCJ17, PCJ18b, RTV15, RS16, TGSS17, WWWZ16, ZHC19, ZC16a]. **free-form** [KP19]. **free-surface** [RTV15]. **Frenet** [DWS+18]. **frequency** [BBD16, BHU18, CCY18, JHPT15, LMM19, MCGNBD17, PS15, VAR15, WWM17, WSG+19, YC19]. **frequency-dependent** [LMM19]. **frequent** [MAF17]. **Frequentist** [SMTdF18]. **Frequentist-Bayesian** [SMTdF18]. **friction** [QM15, VMR17]. **frictional** [BS16]. **friendly** [HS17a]. **front** [CEJ16, FM17, PCJ17, SF16]. **front-fixing** [CEJ16, PCJ17]. **frozen** [AG19, GS18b]. **full**

[CEJ18, GRS19, LDZ17, VS15a, dBAAA15]. **full-pivoting** [dBAAA15]. **Fully** [CYY15a, CFS19, GGRN17, GHL19, HC15, Kaz18, LSH+18b, Pap16b, SK18, YP18]. **fully-coupled** [LSH+18b]. **fully-discrete** [GHL19]. **Function** [NRV18, AQCJ17, AG16a, AMRM17, BSLL18, Bal17, BCJV18, CJ16, CP18, CSTU17, CNQRR18, CD15, CPL+18, CPL+19b, DP19a, DP19b, DNK19, Dia18, DV15, EDO19, FZW19, Fuk15, GD18, Gun18, GYLQ16, Jeb19, KD19, KK19a, KYY15, LKN17, LZS15, LYG15, MS17a, MRMA15, MRMA17, Mel19, MV16b, MLS15, MS17d, Moh17, PA19, STS15, WYW15, XLS+19, YBC+16, ZXQH17, ZS19, vV16]. **function-based** [vV16]. **function-finite** [Jeb19]. **function-to-function** [LKN17]. **function-vorticity** [MV16b]. **Functional** [Mat18, AL16, BJM16, BS15, CT16, FL23, GLR16, GYS17, LW17a, LNP17, MR19, Ros17, WL17a, Yao16, YGC19, ZJ17b]. **functional-discrete** [MR19]. **functional-integro-differential** [WL17a]. **Functions** [FLM17, AHM18, AAKT19, ADMV19, AIS+17b, AR15b, AD18, (Ba18, Beh16, BS17a, BDFM19, BHN15b, CBC+19, CGMGV15, Ceb17, CT16, CCT19, CT15, DDG+16, GLdCJS17, GH17a, GKM18, GC18, GAB17, GWT18, HS17a, HS19, HX15, HS17b, Hon19, IANS15, IAAW18, KDB18, KL17, Kow17, LKN17, MAK19, Mar19a, MHY17, MHY21, MOY18, MA19b, Meh19, MT18, MH16a, MA18, MAS19, Mir16, MG17, MMRS15, MXW17, PM15, PD17, QL19, RP16b, dHKdHMM15, Rom18, SCP19, SH19, TLFC18, TBS18, UPD+15, WGHR17, WCLL18, XW18, XHZ17, XY19, XD17, YSW+18, YWY19, YCW17, ZCST18, Zha17a, ZHL15, ZD19]. **fund** [JYP18, JQWW16, Nke18b]. **fundamental** [AS19b, Bog16, BDGO15]. **Further** [SLQ16, Vig17, You19]. **fusion** [MDH19]. **futures** [GVHMR17]. **fuzziness** [ET15]. **Fuzzy** [TK15, YH18a, ABN+18, AH19, AdHR17, Che19a, CLM19, GX17, Kha17, LC16, MDT16, MGMGJLRB17, SE16, SBP17, WH16, ZS18a, ZWWW19].

G [NHA17]. **G-symplectic** [NHA17]. **Gabor** [OZ18]. **GAITA** [ZPL18, ZPL17]. **Galerkin** [AHMY19, AST19, AD18, AK17b, BJ16, Bac18, BBD16, BKLR15, BKLR16, BW19, CPB19, CHR+15, CCX18, Che19b, CL19b, CZ19b, CFSS18b, CW17, DKL+18, DAM15b, DGM19, DLM17, DYZ18, DAAF16, FLN16, FS19b, GCZ17, GGG19, Gia18, GP16, GTX+19, HWZ18a, HL18b, HCSC16, HMY19, HB16, KM18, KCK18, KCX17, LX15a, LRKV16, LMW18, LSG18, LCH18, LGLC18, LLSM15, Lin16, LLC18, LW19c, Men17, Mol17, MWY15b, MWY15a, MWY16a, MWY16b, MZ19, Mu19a, Mu19b, PMN19, PBP16, Sar19, SA17, SSW19, SLS18, SZ18, SVV18, SF16, TX19, TZZ18, VG17, VS15b, WWWZ16, WWZZ16, WZZ16, Wan18a, WZS18a, WZWJ19, XH19, YP18, YZ16, YL18c, Yi19, Zha15b, ZZLY16, ZZZ+17, ZL18b, ZL19, ZP19, ZC18, ZG19c]. **Galerkin-collocation** [AST19]. **Galerkin-front** [SF16]. **Galue** [KK19a]. **game** [PW15b]. **games** [MTMZ19, NDH16, NH19]. **gamma** [BCJV18, CCRN19, FPGK19, Mar19a, NZ16, SKC+19, SBC16]. **Gander** [PP18b]. **gap** [LC17a]. **Garden** [ADMV19]. **Garden-of-Eden** [ADMV19]. **gas** [ML17b, MFWK18, TV16a, TBAH16, WS18]. **gas-exchange** [TBAH16]. **Gauss** [ZPL18, CDZ16, CBMPP15, DRS16, FEC18, JR15, LLCG16, ML17a, NS16, PM15, PR15, SRBD18, ZPL17]. **Gauss-Hermite** [FEC18]. **Gauss-type** [CBMPP15, PM15]. **Gauss4** [Wu16b]. **Gaussian** [AHBC15, BC16, BAHC17, DRST19, Jeb19, KB19, MIT15a, NP15, PBMJC18]. **Gautschi** [XDY16]. **Gautschi-type** [XDY16]. **gear** [XGH18]. **GEM** [GHL18]. **GEM-CMM** [GHL18]. **General**

[DDP16, Din16, DD17, EHTL19, NBAK19, YZW15, ZHH+19, AFH16, Abd16, BM18, BGII15a, BGMM18, BCS17, BBM15, CFR18, CJVW15, DLLB17, DMMSK17, DTKP17, Dzh18, FSNS16, GLSW18, Kaw17, LCH18, LGLC18, MT17a, MS17e, MT17c, Mol15, NMKK19, NHA17, PRRY18, RMVA17, VŽ19, WWH19, Xia17, YZPL18, YPD16, ZqZwZ15, dR16]. **general-purpose** [BBM15]. **generalised** [ADG17, CC15]. **generalization** [AY18, CLZS19, CNQRR17, KKV19]. **Generalizations** [CT16]. **Generalized** [FMC+18, FCM19, GYL16, JRT17, JS17, KK19b, MIT15a, NJCS19, OAS19, Orr19, PSK16, PR15, ST16a, SPCSA16, SVV18, ZTGZ18, ZWT19, ZG19a, AQCJ17, AGR15a, AH16c, AG19, AFM19, BBGG19, BS15, BR16, BCDwK17, BMG+19, BCVV18, CRGB17, CL19a, CL18b, CM18a, CT17a, CS18b, CRG19, CL19d, CL19c, CCRN19, CGN18, DF16a, DAM15b, DM17a, DRS16, DRST19, DG16b, DB15, FZ15, FS19b, GUB+17, GLV15, GLLS16, Gun18, GYLQ16, HH18c, HCC18, HWXC19a, HWXC19b, IAAW18, JBT16, JSL15, Kam17, KK19a, KV15, LZW18, LLW18, LZ17b, LZ18c, LZ16c, LSBL18a, LSXL19, LOAGBR15, LYG15, ML17a, MT16a, MC18, Mus17, NM17, OK16, PKR18, PT17b, ROB17, RCN17, RCBG17, RT18b, SKC+19, Sai16, SBU+17, SEV+18, SAH15, SPK18, SBC16, SLQ16, UGG+19, WS17, WD19, WP16a, YL18c, ZLPF19, BV16b, BV16c, GLS15]. **Generalized** [GTC16, LS17b, MWY16b, PG16, RP15, SVL19]. **generalized-** [SEV+18]. **Generalizing** [Con18, OCU17]. **generated** [DGM16b, MT18, WO19]. **generating** [Han19, ZJK16]. **generation** [ÁD17, SBP17, WKXT15, ZNG15]. **generator** [CAO+19]. **generators** [Vig17]. **generic** [CDE18, TV18, SO16]. **genetic** [GLdCJS17, NF17, WZBM18]. **geodesic** [DS17b, YW15a, YW15b]. **geomechanics** [LWW17]. **Geometric** [CFJMVG16, FW18, KLM17, LA15a, MXW17, NCQ+18, CPRS19, DWS+18, DFGS16, Gru16, Lev18, MJ18b, MN19b, OAS19, PA19, QG17, QL18, RDRM15, RTV15, Sho18, WH16, ZTGZ18]. **Geometrical** [OCU17, OCU18]. **geometrically** [Sto18, Zag18]. **geometries** [KHS+18, MTMZ19, VRBS19]. **Geometry** [ZSZ17, ADD+16, VFFGV16, Xin16, ZLS+15, Zha19b]. **geotechnics** [CH18]. **Gerber** [WXY17, ZS19]. **Gersgorin** [LZL16]. **GFDM** [UGG+19]. **ghost** [VRBS19]. **Gibbs** [ARTY19, BCA18, DF16b]. **Gilman** [GKBG17]. **GIMLS** [DM17a]. **given** [HBH17]. **Gl-LSMR** [MT17c]. **Glass** [ESSE18]. **Global** [AC17a, BEJR17, CST+16, LH18, MT17c, ZL17a, ZEBM17, AHJ17, Akh19, BEJR16, Con18, DGM16b, GC18, Jan17a, KFT17, LZW18, LH19, MTKO17, NF17, NRV18, Ou18, PDO19, SPG+16a, SH18, SH19, WLZS18, WKBB17, YSW+18, YWY19]. **global-in-time** [MTKO17]. **Global-local** [AC17a]. **Globally** [BTKM15, Bay15, DIJ17, LZ16c, ZWH15b]. **glucose** [DDG+16]. **GMAW** [JL19b]. **GMLS** [Mir16]. **GMRES** [BRS15, CSB18, GJSC18, LH18, SHCJ19, xZWlC15, HLV+15]. **GMRES-Power** [GJSC18]. **GMsFEM** [SVL19, CG19, CLP16, CLV16, CL16, MJ18a, VMM18]. **Goal** [BN15, CLP16, YL18a, Jan17a, LWZ19b]. **Goal-based** [YL18a]. **Goal-oriented** [BN15, CLP16, Jan17a]. **goal-reaching** [LWZ19b]. **Goerisch** [Vej18]. **Golub** [BEJR17]. **Gompertz** [HMKCR19, WS16, WH19]. **Good** [God15, CJT17]. **goodness** [CDN19]. **Google** [SvG15]. **Gordon** [WLW19, AMP18, Bac18, BBCK19, EGK17, KS17b, TN19, XDY16, YTSZ15]. **Goursat** [BGMS16]. **governed** [CG17b, GCY18].

GPU [DS15a]. **GPUs** [COdSR16, DF16a, RdSLL16]. **graded** [CXZ19]. **Gradient** [ABH19, JL17, SBCJ18, And16, And17, DdSL16, DSOBK16, DLHY15, DZM16, Fat16, FMMQ19, GC18, GM17a, GW19, JJ19, LZW18, LSDY19, LS18a, LL18, MDH19, MSZ18, MHMP16, NS19, Ou18, SCP19, YN18, YZ15c, YWY19, ZEBM17]. **gradient-based** [NS19]. **gradient-like** [SCP19]. **Gradual** [IAMCI18]. **Gram** [Elg19, Lu15b]. **granular** [KSD17, SODBK19]. **Graph** [PBJCM19, FFN+17, FP16a, HLLY19]. **Graph-based** [PBJCM19]. **graphics** [PN16]. **graphs** [CGPR16, DEY19, PBMJC18, XZ18]. **Grassi** [OKGB19]. **gravity** [Sai16]. **greater** [LSW19]. **greatest** [BWS17]. **Greedy** [GH19b, KC19, ZLAA15]. **Greek** [KV18b]. **Greeks** [HL15, KC17]. **green** [FAVGC+15, ACCF19, XD17, vV16]. **Grey** [WS18, ML17b, MLW19]. **Grey-related** [WS18]. **grid** [Arm18, AB18b, CZ17b, CY15, HSWH15, LC15b, LS18b, SRBD18, SPM15, TDA18, ZCH18, ZH15]. **grids** [AL18, BG15, GDCK19, KD17, KK19c, MHV17, MPH18, NSYX17, PR16, PDO19, ZCL16]. **Gronwall** [AAM18]. **Grossberg** [LJ15]. **ground** [KLS19]. **groundwater** [YBC+16]. **group** [DLW16b]. **growing** [ZJ19]. **growth** [ACLM18, HMD19, NGGFM16, ZHC19]. **GSS** [HH18d, SBP17]. **guaranteed** [FJD17, ZY19a]. **guess** [KLC17]. **Gumbel** [DG16b]. **gust** [SH15].

H [SNY19]. **H-spectral** [SNY19]. **H7** [BYWPA19]. **Haar** [BM17b, SK16, SGG19]. **Hadamard** [AAKT19, AAKT19, LWZ17, MA19b, WPA+18]. **Hagstrom** [AMP18]. **Hagstrom-Warburton** [AMP18]. **Halanay** [LWTQ17]. **Halanay-type** [LWTQ17]. **half** [GH16a, HG19, LWZ+15, NDN19, Tun18, WPA+18]. **half-line** [NDN19, WPA+18]. **half-plane** [GH16a, Tun18]. **half-quadratic** [LWZ+15]. **halfspace** [DFT18]. **Halley** [ABK19, AGM15, CRS+18, CSTU17, GD18, MA16]. **Halley-type** [AGM15]. **Halton** [HPT19]. **Hamilton** [LQ19]. **Hamiltonian** [BGS19, DZ18, LWL17, MPS19, NHA17, SW17c, ZZHS17]. **Hammerstein** [DNL16, AST19, DNL15, GAA16, HR15, MN17, MN19a, SE16, SR16a, WYLD19, XHZ17]. **hand** [ATG18, HHOT17, KH18, MLJ16, MT17c, REBF16, xZWlC15]. **Handling** [WSL17]. **hanging** [HHZ18]. **Hankel** [CQW16, Pul17]. **happiness** [SCMS18]. **haptotaxis** [Mer19]. **hard** [GH19a, HWP+15, YSL17]. **hardening** [CS17]. **Harmonic** [JL15, Mej17, ALV19, AC17b, AFN17, GM16a, GH16b, NML18, Wan18a, YH18b]. **Hartley** [Mej17]. **harvesting** [Wan18h]. **Hashin** [CJP17]. **Hausdorff** [BPD15b]. **having** [ABK19, PCSR19, RIK16]. **Hawkes** [MX16]. **hazard** [BD19, DNK19]. **HB** [DP19b]. **HCIR** [Jeb19]. **HDG** [CHS+18, Jin16, LX16a, SSZ19, ZC16b]. **healing** [BCS17]. **heat** [Abd18, CCJ16, CRCM16, FAVGC+15, GRS19, KH18, MCLW16, PT17a, SSZ19, SVV18, VDS15, YSCY17]. **heated** [DLW16a]. **heating** [CS17, NGGL+19]. **Heaviside** [WGHR17]. **heavy** [FF15]. **heavy-tailed** [FF15]. **hedging** [CP15, DKV16, DLS17, PZ18, XW18, ZYL18, dSBV16]. **Heine** [MB15b]. **Heisenberg** [DLW16b, GB16]. **Hele** [ZBL+16]. **Helmert** [NS16]. **Helmholtz** [CDKN15, ACEJ18, AKM18, BBD16, CL19a, CQ17, CDKN14, DMS19, GT19, HMH18, JS19b, KR17, KPRA19, LZZL17, TKMT17, Wu17, YBLH17, YH18b]. **Helsinki** [SPG+16a]. **hemivariational** [HH19a, XHH+19]. **hepatic** [DDG+16]. **herd** [Ahn15]. **Hermite** [AAKT19, BI17, BCD15, BCA18, BF18, CH19b, CH19c, DIP+19, DD16a, DD17,

FEC18, GS18a, GS19, HG18, JY19, LP15a, LAHB15, Lu15c, MN19b, MA19b, MS17b, RdV19, SRBD18, ZWGL18, ZwKN15]. **Hermitian** [Cro15, GLT16, GHC16, Hon19, LLW17, Miy19, SWL15, Tru19, WXZ19, Yin19]. **heroin** [LZX19]. **Hessenberg** [GHY+18, MTT15, SB19]. **Hessian** [YZ15b]. **Hestenes** [DLHY15]. **Heston** [RZ19b, DI15, FM19a, GB18, HZ18b, MNFS18, dFG19]. **heterogeneities** [QDBG18]. **Heterogeneous** [GCY18, GK18a, AC17a, AEK19, ABB+15, AB16, CL16, CVW17, CL19d, CDKN14, CDKN15, Don18, GHM18, GM16a, GC15, GT17, HCSC16, KLM17, LRRV18, LT18, MSV18, PG16, SRA+15, ZCFW17, ZWW+18]. **heuristic** [LZ18b, SW16a, SW16b]. **hexagonal** [VFFGV16]. **HH** [AY18]. **Hierarchical** [CDF+16, BH17b, HM16, SA17, VFN18, WYLD19, ZDLD15, ZJK16]. **High** [AL19a, AMRX17, ACAC17, CBP18, CJLT15, DP17a, DM17b, DP19c, FP16b, GM16a, GKLS18, Gri19, GM17b, GTX+19, HHEG17, JB18, LCL16, LSG18, LS18b, LZ19, MJS19, RSID16, TH19, Xin16, ZG19c, Abd16, AEKGP19, AGM15, AJY18, BM17a, BJ16, BS17c, CDF+16, DF16a, DSA15, DGM19, Elg19, FR18b, GH19a, GK18a, GGC15, HMDSR19, JHPT15, JMSL19, KSDM16, LP15b, LSZ16, LLL19a, LHPZ18, MVQDdR+18, MCGNBD17, MS19a, NZ15, OD17, PHCG16, RP16a, RP15, Reu17, RT18a, SEÖ16, SMTdF18, SJL16b, WLW19, YOK15, YC19, YFwC19, Zak19, ZST15, ZLS+15, ZYL19]. **high-contrast** [PHCG16, RP15]. **high-dimensional** [LP15b, LHPZ18, SJL16b]. **high-frequency** [JHPT15, MCGNBD17]. **High-order** [ACAC17, DP17a, DM17b, DP19c, GM16a, Gri19, GM17b, GTX+19, HHEG17, JB18, LCL16, LS18b, Abd16, AJY18, BJ16, DSA15, Elg19, FR18b, GGC15, KSDM16, MVQDdR+18, Reu17, RT18a, WLW19, ZLS+15]. **High-Performance** [CBP18, DF16a]. **High-quality** [LZ19]. **high-rank** [YFwC19]. **Higher** [MVdRE+17, ACMT17b, BZ19b, HMT+17, KV19b, KMB+18, MTV17, MG15a, NGGL+19, WWL15, Yam17, ZLZ17, ZQJY18]. **higher-index** [HMT+17]. **Higher-order** [MVdRE+17, ZLZ17]. **Highly** [BSGM19, CJSCT18, BBB17c, CL19a, CY18b, CL16, FYY17, GCTGC16, GCY18, GT17, HXX16, JGGS16, JS19b, KLM17, KCX17, KT15, LT18, LTY17, ML18, Mil15, MSV18, Mol17, uIZ15, ZX19, DLY18]. **highly-accurate** [CL19a]. **Hilbert** [AAA15, AA16, ABH19, AP18, BJM16, BD16, BHRR18, CDHP17, DK16, HS19, MV16a, OZ18, SAA18, Sak17, WGHR17, XM16]. **Hilbert-Besov** [ABH19]. **Hildreth** [JCC15]. **Hilfer** [HND18, Kam16a]. **Hill** [BBPS17, DDG+16]. **Hilliard** [Che19b, CFWW19, CSE+19, DF15, Son16, WCW19, XZ19, YZH18]. **Hilliard-like** [XZ19]. **Hilliard-reaction** [DF15]. **historical** [KV19b]. **history** [XHH+19]. **history-dependent** [XHH+19]. **HIV** [KJ19, MLV16, PC17, PC18a]. **HIV/AIDS** [KJ19]. **HMM** [CYY15a]. **Hocking** [Gru16]. **hodograph** [BLV19, FW18, KLK16b, LAHB15, LFCW19, ZWY16]. **Hohenberg** [SEV+18]. **Holder** [Sai19]. **hole** [YSCY17]. **hole-filling** [YSCY17]. **Holling** [YT16]. **Holm** [YFS18]. **Holomorphic** [BHN15b]. **homogeneous** [CCNQ+16, CNQRR18, JW17, MDVR19, QDBG18, SJRR17, VCL+19, Wol17, ZW16]. **Homogenization** [CJCDLL15, CSW19, CJCDLL19, TV16a, VFGPG+18]. **homotopic** [BDA17]. **Homotopy** [YMGA19, BC16, BZ19b, CHYZ19, EWR18, GGC15, HSAR18]. **honor** [DLY18]. **Hopf** [Gru16]. **Hopfield** [LDZ18]. **horizon** [BGNGR+17, CPOG18, JS19a, Ugu18]. **horn** [GM16a]. **host** [TLLL19]. **household** [YL19b]. **Householder** [LWZZ16]. **hp**

[LSP18]. **HPC** [GDC15a]. **Hsieh** [BI17]. **HSS** [RWW17, Yan17, ZZ15]. **Huber** [Bie17]. **Hull** [FNV17]. **human** [AMM19, BOF+16, SCMS18]. **humid** [HWP+15]. **hump** [Sad19]. **humps** [NS17]. **Hurwicz** [CHS17]. **Hybrid** [BLH+17, MS17a, NF17, SBCJ18, AM16, ABB18, BSLL18, Beh16, CLX17, CCC19, DMMSK17, FYY17, FP16a, GC18, GJ17, HS17b, HCSC16, JK18, KMRS16, LLZ16, LRL+18, LWDW18, Lu16, MAS19, NAK17, Ngo19a, NGGFM16, NGGFM17, OLRPdCJ19, QDG+15, SGK16, SX18, WZBM18, WS16, XqYL+15, ZSW16, ZCFW17, ZS17b]. **hybridizable** [DYZ18, KCK18]. **Hybridized** [Jeo15, MWY16a, SA17]. **hydrodynamic** [GRVC15, Gor16]. **hydrostatic** [LSG18]. **Hyers** [Xia17]. **Hyper** [PP15, WZ16, ZZW18]. **hyper-exponential** [WZ16]. **hyper-plane** [ZZW18]. **Hyper-power** [PP15]. **Hyperbolic** [SuSR16, BGMS16, BP17b, CTAT19, ELL+19, HMDSR19, HWH19a, HWC16b, HW18b, JN18, KP15, LD19a, LD19b, Luo18, MDG19, MDVR19, MY18, OCU18, Par15, Rót15, SS17, WCW15b, YZH18]. **hyperelastic** [LY15b]. **Hyperelliptic** [ATV15]. **hyperexponential** [Hac18]. **hyperfunction** [OH18]. **hypergeometric** [AQCJ17, DP19b, DGSM15, SCG18]. **hyperpower** [SSG18]. **hypersingular** [NAM18, SS18c]. **hypersurfaces** [ADD+16, BAAA+15, LDDF18]. **hypertension** [TS17]. **hyperthermia** [RdSLL16].

i.i.d [OLPT16]. **IB** [CLZW19]. **IBVPs** [AFGT18]. **ideal** [JZS16]. **identical** [DD18a]. **Identification** [HBH17, JAN17b, LFCW19, SS19b, SS17, SZJ19, SYW19, VDS15, Abd18, KMD+16, PT17a]. **Identifying** [AR19, HM19b, WSG+19, ZW16]. **identities** [MVC19]. **IDR** [DSZ15]. **IGA** [CFSS18a, Mat18]. **IGA-BEMs** [CFSS18a]. **II** [BV16c, Gun18, HJ17b, LD19b, NAK17, YZPL18, YT16, ZG19a]. **III** [LCL16, AHKT15]. **ILC** [LDW18]. **ill** [BEJR17, DdSL16, HRR15, HJ17b, KR18, MRVV16, MP15, MHMP16, PB15, XZXQ18]. **ill-conditioned** [KR18]. **ill-posed** [BEJR17, DdSL16, HRR15, HJ17b, MRVV16, MP15, MHMP16, PB15, XZXQ18]. **illustration** [TDA18]. **ILU** [CMM17]. **Image** [WGHR17, BEJR16, CFR18, CG17a, DF16a, DGH15, DTB17, GDC15a, HS18a, HH19b, KKP+19, LAVMA18, LLD18, LZL+18a, LSL15, MDH19, PKMM19, SE18, SAH17]. **imagery** [CCRN19]. **images** [HLG+17, NCQ+18, PBMJC18, PBJCM19, SAH17, WXJ19]. **imaginary** [GKN18]. **imaging** [BTKM15, QLT+17]. **IMEX** [BP17b, CDP17, Kad17, KS18, LLT16, MV16d, Son16]. **Immersed** [CCZZ16, LKS17, ACLY19, GKPS19, MZ19, YZ16, ZG19c]. **immersed-isogeometric** [GKPS19]. **immune** [BdSFL16, LRRV18]. **Impact** [ZS17c, CD15, PC18a]. **Impacts** [SPG+16a, BG15]. **IMPEC** [CFS19]. **impedance** [AMM19, HHS+15]. **Implementation** [CDE18, SLH15, GKPS19, HHKR15, KBG17, MMPGCSP17, SM16]. **implementations** [BW17]. **implemented** [VMR17]. **Implicit** [ABB17, ZJ19, AH16a, ALC19, ADD+16, BKK18, BL16, CCW17, DBdLdM+19, DLM17, HHR16, IDGH18, IÇ18, KW18, LZS15, MS18, MP18, Mil15, QDY+19, SGL17, SAT15, SW17b, VL15, WD18, WZS18a, WKBB17, XZ19, YZZ19, ZS18a, ZST15, ZJ17b, ZDF+17, GC15, LLL19a]. **implicit-explicit** [DBdLdM+19, IDGH18, WZS18a]. **implicitly** [BZ16b, NML18]. **implicitly-defined** [BZ16b]. **implied** [OT17]. **implosions** [VG15]. **Importance**

[RIK16, ABT17, Kaw17, MM17]. **impression** [DI15]. **improve** [ICMPG16, OGR17a, LGB18]. **Improved** [FE16, FPGK19, JJ19, MCGNBD17, NZL17, Ran15, Zho16, AS18, AJ17, BFLP15, CSTU17, FP16a, HX15, HZ19, LZS15, LOAGBR15, OGR19, SJ17, SKBT16, ZCC15]. **Improvement** [FFKP17, JL19b, OOO15, CCC19, CY18a, Wu16b]. **Improvements** [GHA+15, AB18b, HB16]. **Improving** [AMS17, HVM18, dMPF15, CDH+17, CNQRR17]. **impulse** [El 17]. **impulses** [LDW18]. **impulsive** [HND18, HCA+18, LJ15, LDW17, ZSL15, Zha16, Zha18]. **impurity** [EGK17]. **imputation** [GLdCJS17]. **in-situ** [AAB18a]. **inactivity** [BO16]. **incidence** [ZM15a]. **including** [EAKS18, KR18, LWW17, OCU17]. **inclusion** [DTKP17, Fer15, LZL16, LLL19b, MMD15, TSMO17]. **inclusions** [BP17a, HND18, PAC15]. **income** [MLW19, dSBV16]. **incomplete** [BDGIPG15, LHJR15]. **incompressible** [BAK18, CHS15, CZ17b, CHS17, CLZW19, Hei15, KtTBK18, LW15, LW17b, ML19a, MV18, Ngo19a, PST18, WZZ16, Wat16, ZZZ18]. **incorporating** [DMCC+18]. **increasing** [Nie15, LRKV16]. **incremental** [HRS16]. **indefinite** [HS17a, WL17b, dBAAA15]. **independence** [DM16b, JGAFAL19, ZJK16]. **independent** [GR19, NL17]. **indeterminate** [BHN15b]. **Index** [GSM18, Ahn15, CZ15, CY18a, Che19a, GYL16, HMT+17, HW18a, JS17, Pis15, Rad17, SS18a, SCMS18, SJL16b, WL17c, WLC+18, Wu18, WH19]. **index-** [JS17]. **index-3** [Pis15]. **indexing** [GSM18]. **indices** [LN16]. **indifference** [LN16]. **Induced** [AvG16, AdGvG19]. **Induction** [CS17]. **inductive** [DS17b]. **industrial** [LN16]. **industry** [EPC17]. **inequalities** [AM17b, AÖ17, AAKT19, DMMSK17, MA19b, TH18, XHH+19]. **inequality** [AAM18, CT17a, El 17, FE16, HH19a, LA15c, LWS16, LWTQ17, NS19, Qi19]. **Inertial** [TH18, CST+16]. **Inexact** [AEP15, BBM15, HWH19b, LSH18a, MP17b, Pol16, RWW17, YSG18, YWY19]. **inf** [LT18]. **inf-sup** [LT18]. **Infeasible** [YZZL19, YLL15]. **infeasible-interior-point** [YLL15]. **infection** [LRRV18, MLV16]. **Inference** [AS19a, Gun18, PD19, Wan17a, Wan18e, Gun19, HG19, ZSW16, ZG19a, ZLPF19]. **inferential** [ABB18]. **infiltration** [LWV18]. **Infinite** [KNP+17, BGNGR+17, DHAM17, DFT18, FCJ16, HSAR18, Kan18, MTT15, SLW17, Ugu18, Zha18]. **Infinite-dimensional** [KNP+17]. **infinitely** [MOY18, VL19]. **inflated** [QLZ19]. **Influence** [MPM+17, Sai16, BOF+16, CJP17, GR16, SLH15, SSCM18]. **influenced** [BYWPA19]. **influenza** [KPW17]. **Information** [WWST18, AY19, AdGvG19, MJ18b, MDH19, MP17b, RDRM15, WZS+18b]. **Infotaxis** [EKKT17]. **infrastructure** [SPG+16b]. **ingredients** [GDC15b]. **inherent** [Mär17]. **inhomogeneous** [AL19a, HMH18, JHK17, TNTL18, XD17]. **INID** [(Ba18]. **initial** [AAM18, CLX17, KP15, KLC17, LC15b, LWC17, PRP19, PTV17, RMVA17, RMA19, SK15, VARC17, vV16]. **initial-boundary** [vV16]. **initial-value** [RMVA17, VARC17]. **initialization** [LZS15, SF18]. **Injecting** [ICMPG16]. **injection** [SRRJ16]. **Injectivity** [ZZ16]. **injectors** [SJRR17]. **inner** [SJRR17]. **innovations** [FF15, HYF18, QLZ19]. **Inout** [GW17]. **inpainting** [WGHR17]. **input** [BJK19, BCNP15, Luo18, VZDV18]. **input-output** [VZDV18]. **inputs** [JL16b]. **Inspired** [PBS15]. **instabilities** [BLMS19, Rät15]. **instability** [Gru16, IGRL17]. **insurance** [DT18, MSY16, MSY17, NY19]. **insurances**

[AO18]. **insurer** [HOTZ18, LRZ15, WRZ18, ZJQW18, ZC19]. **integer** [ZL17a]. **integrable** [MT16a]. **Integral** [QL18, Qi18, AFH16, AL16, AD18, BM18, BJM16, BH17a, Baz15, BG17, BP17a, BLM16, Bie17, CCJ16, CT16, DJC15, DDR19, DP17a, DNL15, DNL16, DHAM17, DL16a, DVS15, DLM16a, DYZ18, Don18, Elg19, EJJ15, EHTL19, FL23, FSNS16, GYS17, GD17, GAA16, GKN16, HHLS18, HR15, HSAR18, HKAR18, HXX16, HS17b, HSAA19, JYK17, JD16, KGES19, KMB15, KR16, LYG17, LS18a, LHPZ18, MFX15, MMO15, MS17a, MD18, MN17, MN19a, MII16, MA19b, ML19b, MT18, Men17, Mic18, MHL16, MH16a, MH16b, MS17c, MA18, MSH18, MAS19, Mit15b, MTS17, NDN19, NN18a, Nem15, NAM18, OD17, PSK16, PMN19, PAC15, PPM16, PA19, Pis15, PST18, Ros17, SE16, SAC17, SLH18, SR16a, SHS$^+$15, SDH17, SS18c, SJ17, SK16, uIuD18, WW16a, WPA$^+$18, WR16, WCS18, XHZ17]. **integral** [XY19, XF16, Yak19, YCX19, ZM15a, ZM15b, yZ17, ZX19, Zho16, ZN19, dAFvdMR19]. **integral-algebraic** [Pis15, ZN19]. **integral-difference** [MT18]. **integrals** [AM17b, AQCJ17, AAKT19, AL18, BEHL17, Ceb17, Fuk15, HS17a, HS18b, HX15, IGRL17, KK19a, KL15, Kan18, KW16, LWZ17, ML18, MIT15a, Mol17, Nak15, Orr19, PM15, uIZ15, SLQ16, VK16, Wan18b, ZuI17, ZLS$^+$15, ZCS$^+$19]. **Integrated** [HLLY19, Lev18]. **integrating** [AMCR19, CR17]. **integration** [Abd16, AL19a, ALMLM16, ACLM18, BBCP16, BHU18, BR15b, DKLP15, EK19, GG17a, God15, God16, GPHAPR15, GPHAPR17, GKLS18, Kan18, KS17b, KW18, KNP$^+$17, MG15a, MF16, NAH18, NV19, NN17, OH18, OGR17a, LGB18, RT18b, SS19a, TGSS17, VS18, Vis15, WCLL18]. **integrations** [LLCG16]. **integrator** [AMP18, JM18, MDG17b, SOMF19, XDY16, Zha17b]. **integrators** [BBPS17, BBC$^+$18, BBCK19, BM19a, JSW17, JSW18b, LWL17, WLM16]. **integro** [ALS19, BM17a, BM17b, BDA17, Beh16, BGL17, BS19, Bog15, BS15, CHR$^+$15, DBX19, DA19, DG16a, Dzh16, Dzh18, FCJ16, GMG19, GS15c, HSAA19, KP15, KS17a, KDW17b, KDW17a, KAA16, KPS17, Moh19, Mok15, Mol15, NE17, NSM16, Pis17, Reu16a, Sar19, SPK18, TJB17, WZ17, WL17a, YZZ19, YAA19, YJBM19, ZS18a]. **integro-differential** [ALS19, BM17a, BM17b, BDA17, Beh16, BGL17, BS19, BS15, CHR$^+$15, DBX19, DG16a, Dzh16, Dzh18, FCJ16, GMG19, GS15c, HSAA19, KP15, KS17a, KDW17b, KDW17a, KAA16, KPS17, Moh19, Mok15, Mol15, NE17, NSM16, Pis17, Reu16a, Sar19, SPK18, TJB17, WZ17, YZZ19, YAA19, YJBM19, ZS18a]. **integro-parabolic** [Bog15]. **integro-partial** [DA19]. **integrodifferential** [VDS15]. **Intel** [GGK18]. **intelligence** [KS17a]. **intensity** [DB15, PG19]. **inter** [GMSR18, GMSR21, PD19, RVZ15]. **inter-claim** [RVZ15]. **inter-failure** [GMSR18, GMSR21]. **inter-record** [PD19]. **interaction** [BBB17c, LY15b, MCGNBD17, VG15, ZHS18]. **interactions** [JC18, SH15, VS15b]. **InterCriteria** [RF18]. **interest** [BZ19a, GZH19, GVMR16, GVMR19, HZ18b, ID16, PX17, RZ19b, ZS17a, dFG19]. **Interface** [ZG19b, ACLY19, CCZZ16, CWXW17, CS18a, CFMN15, DYZ18, FLZ19, GSRJ18, JCC15, KS16, MZ19, Mu19a, Mu19b, SZ18, Sun19, TLLL19, WXW15, XY16, XZN$^+$19, YZ16, Zha19b, ZG19c]. **interfaces** [HBH17, NZ15, XD17]. **interfacial** [XZ19]. **interior** [BySZ19, CG17b, CGSS17, HK19, HL18b, HZ17c, JL15, KYY15, LLHO18, QC18, Qui15, RC19, SZ18, SM15b, TBY17, YLL15, YZZL19]. **interior-point** [YZZL19]. **interlaced**

[God15]. **interleaved** [LHJR15]. **intermittent** [IABIPG17, IAMCI18]. **internal** [Pol16]. **Internality** [DRST19]. **International** [DNY17, WWST18]. **interphase** [QDBG18]. **interpolants** [BIR17a, BCD15, CDDD19, CH19b, ELL+19, SST15]. **Interpolating** [CJ16, ABRS17, Bej16, DDR19, DAM15b, DM17a, ZMTT19]. **Interpolation** [BF18, CDHP17, GK19a, ABB17, Arà19, Bal17, BL18, BGII15a, BI17, BDIR19a, BDIR19b, BIJM+19, BCA18, CFSS18a, Che18, CL15, DMP19, DD16a, DXML19, DD17, FSNS16, FP18, GS19, GH16b, HG18, Han19, Har18, HW18a, ID18, JZS16, KMLB17, KB16, LHPZ18, Lu15c, MPM+17, MN19b, Moh17, NJCS19, NY19, QWZ18, RRS19, SJ17, SJ18, TXFH18, WCLL18, WWL15, ZwKN15]. **interpolations** [BLV19, ZYY19]. **interpolatory** [GMdV19]. **interpretation** [GSVSM16]. **intersection** [ADD+16, BAAA+15, DD16b, DD16c, FWW+18]. **intersections** [BHN15a]. **interval** [AG18, AHL17, BSLL19, FE16, HKZZ15, Kan18, KS15a, LaT15, LaTG17, La19, LXL15, LXL16, LWZ17, MHC16, Wan15b, bWzZjH16, WL17c, WLC+18, Wu18, WH19, Zha18]. **intervals** [FFP16, GMdV19, LLL19b, Moh17, YS19]. **intimate** [LE18]. **Introduction** [ZDL16, ZDFF18]. **intrusion** [ZYZ18]. **intrusive** [CH18]. **invariance** [ADG19, Rom18]. **Invariant** [BGI18, FwC17, Fer15, GGBTP17, VFN18, YZH18]. **invariants** [AK17a, FFN+17]. **invasion** [Mer19, SN19]. **inventory** [EPC17]. **Inverse** [BW17, HVV15, LHJ16, MHC16, Su16, WW16b, Aks17, Bay15, BFLP15, BKLR15, BKLR16, DNK19, DFRR15, FLJT18, FM19b, GHA+15, GLT16, Haj19, JO17, LRT17, LH16, LSZ16, LLZ18, LCZ18, Liu17, Liu18, LF19, ML17a, MM19, MP15, NAK17, RVC19, SNY19, VF17, WLZ15, WWH19, WD16, XCG19, YB15, ZWGL18]. **inverses** [HK18, IAAW18, ML17a, MTT15, MT15, PP15, PKR18, SS16b, SAH15, SSH16]. **Inversion** [AGR+15b, FM18a, HHS+15, JYK16, NPR18]. **invert** [HLLY19, JL15]. **Investment** [TF18, ALS18, GWY17, HYZ16, HOTZ18, LRZ15, MYG18, Mud19, Nke18a, RP17, WRZ18, YX19, YL19b, ZC19, dFG17]. **Investment-consumption** [TF18]. **investments** [FY18]. **Involutions** [AH16b]. **Involutive** [RM19]. **involving** [AQCJ17, AKR18, BLP17, Ceb17, CGN18, DVA19, KK19a, PM15, SCMS18]. **ion** [ABL+19, FFKP17, VMM18]. **IPDG** [CYY15a, CGPR17]. **IPG** [YBLH17]. **irreducible** [CHYZ19, SNY19]. **irregular** [JK19, Prz15, RTV15, Xin16]. **isentropic** [BHN15a]. **iSIRA** [HLLY19]. **island** [FAVGC+15, NC16]. **island-based** [NC16]. **iso** [SL18]. **iso-parametric** [SL18]. **isochronous** [AIL17, GLV15, IL15, LI15]. **Isogeometric** [QDY+19, QDBG18, CDP19, CPRS19, GKPS19, GDQ17, GD17, KV18a, KV19a, SM15a, XLS+19]. **isospectral** [Kau16]. **isosurface** [DS15a]. **isothermal** [BBPR15, OSC15]. **isotopisms** [FFN+17]. **isotropic** [LWZ+15]. **Issue** [DLY18, VAMDGR19]. **issues** [AB18a]. **Istanbul** [DI15]. **Itô** [AK16, BJ16, HMD19, MSH18, MAS19, SLH18]. **Itô-Volterra** [MSH18]. **Italy** [CPRS19]. **iterated** [KR16]. **iterates** [Bog15]. **Iteration** [FLM17, AM15a, BL16, CT15, EL19, GXZ15, HH18d, HWXC19a, HWXC19b, LY18, Mar19b, MM15a, MV16a, NH19, PLP17, RWW17, SNY19, SH19, Wan15a, WZL17, WWH19, WXZ19, WHS17, WL16, Xu15, YZW15, Yan17, YSG18, YZ18, ZZ19, ZZZ15, ZZ15]. **Iterations** [GLLS16, KMB+18, SSH16, SSG18]. **Iterative** [CQW17, CW17, CPL+19a, DG16a, HM19b, KKW16, LWW17, LDL+19, Sak17, ZZZ18, Ais17a, ABHVM16, AAB+18b, ACDT18,

AP18, BCT16, BH17a, BBH+17, BW16, BSGM19, BBC17, CCTV17, CFS19, CCT19, CJT15, CMQT16, CJT17, CMTV17, CT17b, CGT18, CJSCT18, DTKP17, DLM16b, DD17, EL19, GHM17, GD18, GFPGF19, GM16b, Had15, HH18a, HVMR19, HSAA19, HMT15, JMNB18, LLD18, LHZ15, LD15, LDW17, LWC17, LLG+18, LJ16, Mic18, PKR18, PI19, RMK19, SLH18, SR16c, SH18, TBR16, TP19, WA17, Xia17, XY16, Xie19, XC18, YSL17, ZCST18, ZPL17, ZPL18, yZLX15, ZW16, ZTGZ18, Zho16]. **iteratively** [LH16, LSH18a]. **IVPs** [FR18b, Goć15, PS15, SVAKGR19a].

J [ÁD15, AB16, Beh16, BP17a, BKMO20, Chr19, CDKN15, CPL+19b, DNL16, DLY18, GMSR21, GAA21, JSW18b, MHY21, LGB18, RdSMO18, SW16a, TGJ19]. **J.** [DLY18, ZPL18]. **Jacobi** [GMG19, BDSB16, HMP15, JL15, LQ19, LX17, MMMMB16, Mia18, SAC17, SB18, Su16, Zak19]. **Jacobian** [ACDT18, TGSS17, WYW15]. **Jacobian-free** [ACDT18]. **Jacobian-vector** [TGSS17]. **Joint** [MM17, CLPZ17, EG17, KC19, PW15a, SGK16]. **Jordan** [ML17a]. **Joule** [CS17]. **judgments** [BDGIPG15]. **jump** [ALS18, AHT18, AG18, APYW19, Dan17, DP19c, FEC18, GVMR16, GVHMR17, GVMR19, Gri19, HK19, HK07, HYZ16, JSW18a, KKW16, MX16, MS15a, MFLL18, Mud19, Nke18b, Prz19, RP16a, Sta19, Sun19, TGJ19, TYMG17, WC17, WRZ18, WW16b, WZ16, XY15, YYL15]. **jump-diffusion** [ALS18, Dan17, GVMR16, GVHMR17, GVMR19, HK07, HYZ16, KKW16, MS15a, MFLL18, Nke18b, Prz19, TGJ19, XY15]. **jump-SDEs** [Gri19]. **jump-to-default** [JSW18a]. **jumping** [AYSE19]. **jumps** [CXW19, DFLM19, DL16b, GKLS18, HOM17, MYM16, ST16b, ZS17a, ZC19].

Kahan [BEJR17]. **Kalman** [DLM16b, KK17]. **Kantorovich** [AM15a, AH16c]. **Kawahara** [MM18]. **KdV** [WD18, BMG+19, LSXL19, WD19]. **Kelvin** [PBP16]. **Kernel** [OD17, AAA15, AA16, AVB17, AAM18, AP18, BM18, BJM16, BH17a, BDA17, BLM16, CXZ19, CDHP17, DJC15, DVS15, HSAA19, JW17, KMB15, KV15, LW17a, LF19, MMO15, ML19b, Moh19, NGGFM17, PMN19, SAA18, Sak17, VFG18, VDS15, WGHR17, WR16, XZN+19, YCX19, ZCS+19]. **kernels** [Bie17, DL16a, GKN16, HXX16, Mol15, MTS17, NSM16, NAM18, SDH17, SS17, ZX19]. **kind** [BM18, BH17a, BLM16, DJC15, DLM16a, DRST19, GV17, Men17, Mic18, MTS17, NSM16, NAM18, PPM16, SK16, ZM15b, dR16]. **kinds** [YH18b]. **kinetic** [MP18, RKS16]. **King** [AR15c, CCTV17, MBM17]. **kinks** [EGK17, GKLS18]. **Kirchhoff** [MM15b]. **Klein** [KS17b, AMP18, BBCK19, TN19, WLW19, XDY16, YTSZ15]. **Klein/Sine** [YTSZ15]. **Klein/Sine-Gordon** [YTSZ15]. **Knapsack** [PBS15]. **Knights** [GGK18]. **knock** [LDK17]. **knock-out** [LDK17]. **knot** [AHBC15, BAHC17]. **knowledge** [ICMPG16]. **Koiter** [BEMA16]. **Kolmogorov** [MDG19, Wat16]. **König** [LP18, PP18a]. **König-like** [PP18a]. **Korteweg** [AKHSU18, BGS19, FS19b]. **Kou** [CGT18]. **Krawczyk** [HZ19]. **Krawtchouk** [AGR+15b, RCPA15]. **Krízek** [KKV19]. **Krylov** [ABG17, Bai15, Bot16, BHU18, BL16, CGvA+15, GG17a, KBG17, Mia18, REBF16]. **Kumaraswamy** [Wan17a, Wan18e]. **Kuramoto** [MFWK18]. **kurtosis** [BOF+16]. **Kutta** [AK15, ZM15b, AH15, AK17a, BYW18, BP17b, CWH18, DT16, GPHAPR15, GPHAPR17, GQM16, HHR16, HIS16, KS18, LL15, MVK19, MAF17, Son16, SV16a, TFS17, WZS18a, ZST15, Zha16, ZZHS17, ZDF+17].

L [DB15]. **L-shaped** [DB15]. **L1** [THC+18].

lag [Sai16, SVAKGR19b]. **lagging** [CRCM16]. **Lagrange** [AB18a, DLM+19, Har18, KBL19, LJ15, WWM17]. **Lagrangian** [BSS15, CH17a, FP16b, Guo17, HWH19b, PKMM19, SK18]. **Laguerre** [AQCJ17, LZ15, ST16a, ZWGL18, ZS19, ZY19a]. **laminar** [LLSZ17, MFWK18]. **Lanczos** [BEJR16, GLZ18, Haj19, LH19, NML18, WGLV16]. **Landau** [Wol17]. **Landing** [GGK18]. **Lane** [RMA19, SGG19, SK15]. **Laplace** [CS18a, DB15, Dos19, FM18a, JMSL19, JYK16, MVC19, OM17b]. **Laplace-interface** [CS18a]. **Laplacian** [CZ17a, CKL18, DWXO15, HLLS18, HLLY19, VDT19, Yao18]. **Large** [wCW15a, YFwC19, And16, AvG16, AMP15, Bai15, BCC+18, BEJR17, DSN17, DY15, FM19b, GH19a, HLG+17, HJ17b, HWZ18b, JK19, KSD17, LSH+18b, LF18, LL18, Per16, SM16, WLLC18, WP16a, YZ15c, ZDL16, yZyMxG+16]. **large-body** [AMP15]. **Large-scale** [wCW15a, YFwC19, And16, DSN17, DY15, HLG+17, HWZ18b, KSD17, LSH+18b, LF18, SM16, WLLC18, WP16a, YZ15c, ZDL16]. **largest** [CHYZ19, CDR18]. **latency** [PC17]. **Lattice** [COdSR16, DKLP15, EK19, God15, Uda18]. **lattices** [CMRP17]. **Lavrentiev** [XC18]. **law** [CJCDLL19, CS17, CS18b]. **laws** [BSS15, BM19a, BP17b, BMG+19, CRGB17, GAA19, GAA21, HWC16b, HW18b, JN18, Kaw17, LSXL19, LV16b, RCBG19]. **Lax** [LSZ16]. **Layer** [MT16b, ABT16, DBdLdM+19, LLHO18, LZRH19, PGRC18a, Qui15, SAA18, SBU+17, ZFK18]. **layered** [YL18b]. **layers** [BR15a, CGSS17, Pol16, RC19]. **layout** [JCC15]. **lead** [DMS19]. **leading** [GW19, MJ18b]. **leap** [RKV19]. **Leapfrog** [JKL+15, LX16b]. **Learning** [CFMÖ19, TW17, HYQ+18, LWLL18, LDW17, NGGA+18, NGGL+19]. **Least** [HMT+17, AHMY19, AS18, CQ17, CSXY19, DF15, DDM15, DM17a, Dia18, DLM16b, HLV+15, HHS+15, JL16a, JL17, Ku16, LC15a, LHK19, Lin16, LWJ15, LLG+18, Mir15, MJS19, Nie15, PLP17, SY19, TW17, WS18, XCG19, YW16, Yua15, ZPL17, ZPL18, dBGMUA18]. **Least-squares** [HMT+17, AHMY19, DDM15, Ku16, LC15a, Lin16, MJS19, Nie15, XCG19, Yua15]. **Lebesgue** [CH19b, MS19b]. **Leffler** [AAM18, Hui16, IAAW18]. **left** [LSS19]. **leg** [MSH15, WZ17, WL17a]. **Legendre** [DNL16, AST19, Che19b, DNL15, EBJS19, HC17, HNT19, MN17, MN19a, MC18, Moh19, Mok15, NN18a, Nem15, PMN19, PPM16, SR16b, SM18, YTSZ15, YJBM19, yZ17]. **Lehmann** [Vej18]. **Leland** [KV15]. **lemma** [ZS18a]. **lemmas** [Xia19]. **length** [MVQDdR+18]. **lengths** [LDW17]. **Leray** [XWWI18]. **level** [AB18b, CMM17, CZLV17, CGvA+15, Dan17, GdLT17, GUB15, HWZ18a, HHZ18, KC17, LWW17, LX15a, LA15c, LCZ18, LZS15, Ngo19a, QM15, WD18, YZPL18, vSV15]. **level-set** [LWW17]. **levels** [WXY17]. **Levenberg** [AR15a, AR16, IIA15, LM18]. **Levin** [ML18, Mol17]. **Levy** [RdSMO18, NP19, WH16, BZ19a, CCY18, DLS17, DS17a, DYD19, FCJ16, Hac18, Hai17, HXC19, JA17, RdSMO17, YC19, ZS19]. **Li** [FFKP17, VMM18]. **Li-ion** [FFKP17, VMM18]. **liability** [DT18, PX17]. **Liapunov** [PB15]. **library** [GDC15a]. **lid** [ABT16, LW15]. **lid-driven** [LW15]. **Lie** [CNT17, GKBG17, YX19]. **Lienard** [KAS18]. **life** [AALMLM18, BO16, GAB17, Kav16, LSZB17, OLRPdCJ19, Wan18c, ZSW16]. **life-span** [AALMLM18]. **lifetime** [WL17c, WLC+18, Wu18, WH19]. **lifting** [NLG15]. **light** [VS15b]. **light-matter** [VS15b]. **like** [AMB19, AG19, BDG15, DD16c, Fan15, FR18a, GKM18, GxLlW15, HKAR18,

KV18a, KLC17, LZ16a, PR16, PP18a, Skr17, SCP19, XZ19, ZZ19, ZCD17, ZHL15]. **likelihood** [GYQS15, LC16, RABB19, YS19, ZLPF19]. **likelihood-based** [ZLPF19]. **Limit** [LA15b, LI15, dFLM18, AMP15, BL17, CFG+19, HRS16, KS17b, LSLZ17, NTPVNTDT15, Su18, SM15b]. **limited** [KV16, RKB16, VL19, ZZG+19]. **limited-memory** [VL19, ZZG+19]. **limiting** [CFSS18b, FCM19]. **Lindley** [COGD19, DNK19, NZ16, PD19]. **Lindsay** [ACCF19]. **line** [AR16, CD16b, Fan15, GB16, HWZ18b, JJ19, NDN19, WPA+18, XqYL+15, YWY19]. **lineal** [MGMGJLRB17]. **Linear** [AH16a, BLV19, BV16b, Mar18, YZH18, AFH16, Abd16, AHP19, ATG18, BBCP16, BBC+18, Bai15, BCFN16, BGNGR+17, BFLP15, Baz15, BWS17, BCVV18, CFR18, CJVW15, CCJ18, CGMM18, CZ17b, CLW17, CM18a, CL19c, CNQRR18, CN16, DLLB17, Das18, DdSL16, DG16a, Dia18, DIJ17, DGM16a, DSZ15, Dzh16, Dzh18, Elg19, FE16, FLN16, FGF19, GWLL18, GLMT16, GUB+17, GH19b, GKPS19, GFPGF19, GHC16, GHY+18, GH16c, GYQS15, GYLQ16, GSRJ18, HZ18a, HMT+17, HOS16, HMMV17, HLLS18, HZ17a, HZ17b, Hua19, HWXC19a, HWXC19b, JMN+16, JSL15, JZ18, JK19, JGTB15, JD16, Kad17, Kha17, KV17, KV18b, KPT15, KR18, KBL19, Lad15, LaT15, LaTG17, La19, LWXF18, LMUZ18, LYG17, LHZ15, LZ16c, Liu16, LHPZ18, LLV18b, LLY19, LM17b, LYG15, MDG17b, MT17b, MT17a, MP17a, ML19b, MLJ16, MB17, MS17c, MA18, Miy15, MSZ18]. **linear** [MT17c, MHC16, MSH15, MY18, NHA17, NW19, OD17, OK16, OAS19, Par15, PB15, PDB15, PBGG17, PHD17, PHCG16, Pul17, QWZ16, RWW17, REBF16, Reu16a, SAC17, SHW19, SW17c, Tho16, TBAH16, TBY17, TN19, UGG+19, Vis15, VX19, WZL17, WLZ17, WD18, WXZ19, WA17, Wu16a, WL16, WL17b, YW16, Yan17, Yi19, ZZ19, ZSL15, yZLX15, Zha16, ZZZ15, ZL15b, xZWlC15, ZS17b, ZN19, ZJK16, dAFvdMR19, dBGMUA18, dFLM18]. **linearity** [LO19]. **Linearization** [JC15, JMS17, CCNQ+16, RNPK15, SHW19]. **Linearized** [HA19, RZ19a, BHN15a, CLZS19, MDG19]. **linearly** [ÁNPPCSA15, SGL17, YZZ19, ZST15]. **lines** [BK19c, DM17a, WHWY18]. **link** [SvG15]. **linked** [PZ18, ZY19a]. **Liouville** [AÖ17, CKB17, JLLZ16, MR19, SF18]. **lipid** [Hei15]. **Lipschitz** [AH16c, BS17b, CXW19, DBX19, DIJ17, EHVM18, HMD19, IÇ18, KB17, KGMS18, Yao16, ZWH15b]. **liquid** [AK17b, BG15, MFWK18, RANG15]. **liquidity** [CPOG18, MV16d, PX17]. **Liu** [Wu16a]. **liver** [KHS+18]. **living** [SR16b]. **Ljusternik** [Yao18]. **LN** [AH18]. **load** [HRS16]. **loads** [SV16b]. **Lobatto** [CBMPP15, MVPN15]. **Lobatto-type** [MVPN15]. **Local** [AGM15, AK17b, DLW16b, HM19a, JHPT15, JC15, JMS17, Jin16, Ku16, SNY19, AK18, AGM19, AC17a, AG16b, AAB+18b, AR19, AHKT15, AHK19, Bac18, BT17, BM19a, CYY+16, CVW17, DXML19, Fer15, FP16a, GJ17, GTX+19, HVMR19, JM15, KB17, KSDM16, KtTBK18, LAVMA18, LLCG16, MA16, MKKV19, MFLL18, PBMJC18, ST16b, TX19, VX19, WZS+18b, WLZS18, WZS18a, WKBB17, YGS18, YH18a, ZNG15, ZC16a, ZC18, VCL+19]. **local/global** [WLZS18]. **localization** [PP16]. **localizations** [RW15]. **localized** [LaT15, LaTG17, La19, LWV18]. **locally** [AS19a, BK15c, CRR16, DGM19, DLM17, HMD19, SSKV17, Yao16, ZJ17a, ZWW+18, Zha19a]. **location** [FAVGC+15, Gun19, Qui15]. **loci** [TBS18]. **locking** [ML19a, WWWZ16]. **locking-free** [ML19a, WWWZ16]. **LOD** [BK15c]. **Log** [Orr19, LX16c]. **log-aesthetic** [LX16c].

Log-sine [Orr19]. **Logarithmic** [AV16, AT17, AD18, HS18b, KL15, MB17, Qi18, QL19, WCLL18]. **logistic** [FLMS16, HG19, PCJ17]. **Lomax** [ABB18, CAO+19]. **London** [SPG+16a]. **Long** [GGK18, Ngo19a, BBB17c, BGNGR+17, CP15, DAM15b, DMAS+16, NV19, RFLM16, WSL19]. **long-bone** [DMAS+16]. **long-short** [BBB17c]. **long-term** [BGNGR+17]. **Long-time** [GGK18]. **long-wave** [DAM15b]. **Longest** [KPS16]. **Longest-edge** [KPS16]. **longitudinal** [HZ17b]. **Lookback** [FM19a, JHK17]. **loop** [NDH16]. **loss** [ALS18, DT18, KD19, LE18, LN16, SJL16b]. **loss-based** [SJL16b]. **losses** [NCJ16]. **lot** [SGK16]. **Love** [LS18a]. **Low** [ACDT18, AB18b, CT15, LSH18a, SAC17, Arm18, BLXD18, BBD16, BDF15, BL16, CCY18, CGMM18, CPZ19, DY15, GH17a, GH19b, HS18a, HLZ19, MOPP18, MS19b, SRRJ16, SHC+19, SZ18, WGLV16]. **Low-complexity** [ACDT18, CT15]. **low-dimensional** [CPZ19]. **low-discrepancy** [BDF15]. **low-frequency** [BBD16, CCY18]. **low-order** [Arm18]. **Low-rank** [AB18b, BLXD18, BL16, CGMM18, GH17a, GH19b, HS18a, MOPP18, SHC+19]. **Lower** [LSLZ17, CBC+19, Tru19, Vej18, Wan15b, WP17, ZZG+19]. **lowest** [Yi19]. **lowest-order** [Yi19]. **loyalty** [GR16]. **LROM** [SMS18]. **LS** [HLBP15]. **LSMR** [MT17c, MT17c]. **LU** [LZ18c]. **Lupas** [HWC16a, KL17, LJX17]. **Lyapunov** [MHY21, AÖ17, CT17a, MHY17, OSMZ18, PS18, SV16a].

M [DLY18]. **MacCormack** [Ngo19b]. **Mach** [IDGH18]. **Mach-sensitive** [IDGH18]. **machine** [NGGA+18, NGGL+19, WS18]. **machines** [RRW17]. **Mackey** [ESSE18]. **Maclaurin** [Dub16, RT18b]. **macro** [BK19a, GK19a, KB19]. **macro-elements** [GK19a]. **macro-triangles** [BK19a, KB19]. **macroscopic** [BM19b]. **Madrid** [SPG+16a]. **magnetic** [COP17, CS17, QLT+17]. **magnetized** [LHY16]. **magneto** [Sai16]. **magneto-thermoelastic** [Sai16]. **magnetohydrodynamic** [KLC17, LHK19]. **magnetohydrodynamics** [AMRX17, AZ17]. **magnetostatic** [MTCC15]. **Mahony** [DAM15b, Güc17]. **majorant** [AH16c, Fer15]. **majorization** [KCNH16]. **makes** [JK19]. **making** [BDGIPG15]. **Malliavin** [Yam17]. **malware** [MVdRE+17]. **management** [AVGCMVM15, CY18a, Nke18a, Nke18b, PX17]. **Mandelbrot** [KPP19]. **Manifold** [DS17b, CST+16, ZNS18]. **Manifold-valued** [DS17b]. **manifolds** [CDF+16, CRS+18, KMLB17]. **Mann** [MM15a, Wan15a]. **mantle** [PDO19]. **manufacturing** [CCC19]. **many** [QG17, REBF16, VL19]. **map** [ACEJ18, Bej16, DLMZ19, GKM18, OKGB19, SE18, LZY17]. **Mapped** [HW18b]. **mapping** [DS19, XLS+19]. **mappings** [BP17a, DTKP17, Iid15, KLK16b, PAC15, Ugu18]. **Marching** [LLZ18, vtWvdHvdVV16]. **marching-on-in-time** [vtWvdHvdVV16]. **marginal** [Ahn15]. **mark** [DV15]. **market** [CPOG18, DSDV15, RdSMO17, RdSMO18, ZS17c]. **markets** [ST16b, YL18d]. **Markov** [BZ19a, CH19a, CNQRR17, DS17a, Ery16, LY15a, RP17, Ugu17, YCW17, ZS17c]. **Markov-modulated** [BZ19a, DS17a, RP17]. **Markov-switching** [ZS17c]. **Markovian** [GMSR21, AG18, APYW19, AYSE19, CXW19, GMSR18, OM17a, WW19b, YYL15]. **Markovian-jumping** [AYSE19]. **Marotto** [SE18]. **Marquardt** [AR15a, AR16, IIA15, LM18]. **Marsaglia** [Vig17]. **Marshall** [BO16, DGM16b, NKD+19, OK16, OE19]. **Martensen** [DS15b]. **martingale** [DSDV15, NP19]. **Maruyama**

[CW15a, GQM16, HLM18, KHLY17, LYG17, Mao15, Mao16, Mil16, OM17a, ZSL18]. **mask** [XMW+15]. **masked** [LSZB17]. **mass** [BBCK19, CFS19, DKP+19, GMCD15, PG16, YB17, ZL17c]. **mass-conservative** [CFS19]. **mass-preserving** [ZL17c]. **Master** [BCMP16]. **match** [LAHB15]. **Matched** [WXW15, FLZ19, SBU+17]. **matching** [DFT18, SODBK19, WYLD19]. **material** [HBH17, KSD17, NZ15, SODBK19, YOK15]. **materials** [Don18, DCNY18, HWP+15, MCLW16, YSCY17]. **Math** [ÁD15, AB16, Beh16, BP17a, BKMO20, Chr19, CDKN15, CPL+19b, DNL16, GMSR21, GAA21, JSW18b, MHY21, LGB18, RdSMO18, SW16a, TGJ19]. **Math.** [ZPL18]. **Mathematical** [ABL+19, DNY17, JTCC18, KDB18, KPW17, LE18, LHY16, MMPGCSP17, TJCC16, TJCC17, Ver16, VACR15, CCIL18, CCD16, DJAMJ17, DMAS+16, FZ15, MVC19, SH15, TLE19, ZqZwZ15]. **matrices** [ADG19, APS15a, APS15b, APS17b, APS17a, APS19a, APS19b, AvG16, AK17c, AB18b, BCC+18, BDG15, BB16, CDR18, Elo19, FV17, FM19b, GWLL18, GLLS16, HWZ19, Hon19, HK18, Hua19, HLLY19, JMN+16, LWZZ16, LY18, Li18, LLW17, MM19, Mar19a, MTT15, MT15, MS17c, OV17, SS18a, SY18, Su16, XCG19, ZWGL18, ZCD17, dBAAA15]. **Matrix** [BL16, BCCB15, CM19b, DFS15, SVGM17, AIS+17b, BBPS17, BWS17, CZ19a, CCJ18, CNT17, CSTU17, CT17b, CPL+18, CPL+19b, DLLB17, DIS+18, DIP+19, DMR19, DY15, Don18, DI15, FE16, GLT16, GXZ15, GYLQ16, Had15, HZ18a, HY19a, HCC18, JZ18, KLK16a, LDZ17, LY18, LH18, Li18, LH19, LWJ15, LHZ15, LLW17, LS18b, Lu15b, MT16a, MT17a, MOPP18, MK17, Miy18, MT19, NE17, NS17, NS16, OV17, OOO15, PS18, RSID16, SS16a, Sad19, SB19, SvG15, SS19a, SIAJ+19, SWL15, SLH15, STS15, SC18, SSH16, TGSS17, Tru19, WLZ15, WNML16, WHS17, WL16, YN18, YBD16, Yua15, ZST15, ZS18b, ZCD17]. **Matrix-free** [BL16, TGSS17]. **matter** [VS15b]. **max** [CLM19, LaT15, LaTG17]. **max-plus** [LaTG17]. **max-product** [CLM19]. **max-separable** [LaT15]. **maximal** [AKR18, WZS+18b]. **maximally** [GW19]. **maximization** [Sad19]. **Maximizing** [LWZ19b]. **Maximum** [RABB19, Sun16, AK17c, BFLP15, GYQS15, JD16, KKV19, LC17b, LC16, MYG18, MS15a, WZ18]. **maxterm** [ADMV19]. **Maxwell** [GH17b, ABBB17, Bot16, CMHHS17, CS18b, DLM+19, JB18, KS17b, LHLL18, NCPD19, SLS18, Wan18a, YH18b, ZCFW17]. **MCC** [LRX16]. **MCGM** [Abd18]. **MDS** [VOB16]. **Mead** [SGK16]. **Mean** [BO16, CW15b, CJV17, LZ16b, LDZ18, WW19b, ZB18, ABT17, AH16a, BE19, BCVV18, CCJ18, DMMSK17, DSOBK16, GQM16, GWT18, GUB15, HOM17, ID16, Kav16, LRZ15, LC16, MS15a, QG17, QL18, SMTdF18, ZWH15a]. **mean-field** [MS15a]. **Mean-risk** [ZB18]. **mean-square** [ABT17, AH16a, GQM16]. **mean-VaR** [BE19]. **Mean-variance** [CW15b, WW19b, LRZ15]. **meander** [PR16]. **meander-like** [PR16]. **means** [FFN+17, GLdCJS17, MGMGJLRB17, NGGL+19, Slo15]. **Measure** [Rom18, DSDV15, HSAR18, LSL18, MJ18b, NP19, Ros17, Sai19]. **Measure-invariance** [Rom18]. **measurement** [CS18b, Liu16, SS19b, VFN18]. **measurements** [BTKM15, CL18a, Slo15, WS19]. **measures** [BYWPA19, CPOG18, DRST19, FJD17, JR15, Man15, MM17, SPCSA16, SM19b, WP17]. **mechanical** [DCNY18, KTT16, SV16b]. **Mechanics** [CBP18, Chu15, XHH+19, Yam19, ZX16]. **mechanism** [ESAE18]. **mechanisms**

[CMRP17, SS18d]. **media** [AAB18a, AEKGP19, AdQdS16, AFM19, CYY15a, CM19a, CFS19, CSW19, CSS19, CL16, DLM17, DFT18, DVJ18, ES18, EAKS18, ESI+19, GM16a, GT17, HCSC16, KLM17, LT18, LRX16, LWV18, LHLL18, LCX18, MDVR19, PSS17, PG16, RNPK15, RP15, SRA+15, VCC+19, WAGVRB19, XD17, ZWW+18]. **medial** [CM18b]. **medical** [AFdOdS15, NCQ+18]. **medium** [BFLP15, CJCDLL19, CV19, LMM19, Sai16, YL18b]. **Meeting** [LPW+19]. **Mehler** [MB15b]. **Mehrotra** [YLL15]. **Mehrotra-type** [YLL15]. **Meixner** [MB15b]. **Mellin** [DL16a]. **melts** [AM16]. **member** [YBD16]. **members** [CGT18]. **membrane** [ABL+19]. **membranes** [Hei15]. **memories** [ARCA+19]. **memory** [CCTV17, CCT19, CJT17, FdOP17, HL15, LRL+18, NBAK19, RKB16, SS17, VDS15, VL19, Wan18g, ZZG+19]. **memoryless** [And17, YN18]. **mental** [XDZZ19]. **Menten** [TK16]. **Merging** [GW16, HM16, KHS+18, Lu15a, LJ16]. **Merton** [JA17, WC17]. **Merton-type** [JA17]. **Mesh** [JWQ18, AN17a, AN19, BS18, BI17, BCS17, BBG19b, BZ16a, DM16b, GLTW15, KHS+18, LBL15, LW15, LL16a, LW17b, MZ16, MS15b, SN19, WKXT15, ZNG15]. **mesh-independence** [DM16b]. **meshes** [BDIR19a, BR16, BLMS19, CDF+16, CL19a, Che16a, CXZ19, CDE18, Das15, HWZ18a, HH16, LW15, LRKV16, LGLC18, ML16, Mu19a, Mu19b, SLS18, SM15b, VFFGV16, WL19b, ZDLD15, ZKRL15, ZML16]. **meshfree** [SK18, TKH16]. **meshing** [SL18]. **Meshless** [uIuD18, WW16a, AD18, DAM15a, FSNS16, ID18, SJ17, SJ18]. **metabolism** [DDG+16]. **metaheuristic** [RF18]. **metaheuristics** [AGM19, SQRE16]. **metamaterial** [TW19]. **metamaterials** [BN19, SLS18]. **metastasis** [JC18, JC19]. **meteorological** [QDG+15]. **meteorology** [SPG+16a]. **Method** [BBQ18, HVV15, LD19a, LD19b, Sch18, SVL19, YMGA19, AAA15, AA16, AVB17, AHP19, ABH19, AHJ17, ASKG18, ACLY19, AHMY19, AHT18, AS18, AG16a, Aks17, AKHSU18, AM16, ACDT15, AN17a, AN19, AZ18, AMB19, ABHVM16, ABEHV16, AAB+18b, AR15a, AR16, ATG18, AZ17, And18, AW19b, ALMLM17, AS19b, AM15b, AH16c, AMS17, ACMT17a, AEHVM18, AEP15, AvG16, AdGvG19, AP18, BRW16, BJM16, BH17a, BJ16, Bac18, BLXD18, BYW18, BDA17, BGII15a, BIJM+19, BBD16, BCFN16, Bay15, BFLP15, BMM17, BKK18, BEJR16, BJK19, BKLR16, BG17, BLM16, Bie17, Bog19, Bog16, BW19, Bou18, BWS17, BK19c, BH17b, COdSR16, CR17, CWXW17, CCW17, CRS+18, CL19a, CH17a, CHX18, CH18, CLZS19, CYY15b, CHR+15, CD16b, CW16b, CZ17b, CQ17, CFX17, CHS17, CZLV17, CM18b, CHS+18, CCX18, Che19b]. **method** [CFS19, CHYZ19, CL19b, CXZ19, CZ19b, CLZW19, Chi17, CK16, CV17, CG17b, CPZ19, CL19c, CJ19, CGvA+15, CHVRT15, CT17b, CN16, Cou19, CPL+19a, DF16a, DKP+19, DLW16b, Dan17, DF15, DL16a, DP17b, DMMSK17, DAM15a, DM17a, DFLM19, DLM17, DLM16a, DFT18, DIJ16, DIJ17, DI19, ES18, Din16, DPN15, DLHY15, DYZ18, DCNY18, DB15, Dos19, DM16b, DD18b, DFRR15, DD16c, DAAF16, ESAE18, Elg19, EJJ16, EC18, EDO19, EE16, EHVM18, EHV19, Fan15, FNZ18, FSNS16, Fat16, FLZ19, Fer15, FGF19, FMR15, FS19b, FCM19, FR19, GZD+19, GLL19, GOGM17, GZDC19, GHA+15, GUB+17, GCY18, GS18b, GMG19, Gia18, GC18, GD18, GM17a, GDQ17, GD17, GK18a, GAA16, GKN16, GLSW16, GFPGF19, GHC16, GHY+18, Güc17, GM19, GdLT17, GM16b, GxLlW15, GJ17, GLMY18, GTX+19, GHL19, GSRJ18, GHV19]. **method** [Had15, HLV+15, HMS19, HOS16, HWCC15, HHLS18, HWZ18a, HMMV17,

HS17a, HR15, HRS16, HSAR18, HKAR18, HWT15, HSWH15, HXX16, HHKR15, Hei15, HL18b, HVM18, HSAA19, HR16, HLL15, HNT19, HCSC16, HL15, HWC16b, HRGZ17, HLM18, HWH19b, HMY19, HP15, HS17c, HW17, HH18c, HWXC19a, HLLY19, HH19b, HWXC19b, HIS16, ID18, IIA15, JMNB18, JL16a, JO17, JLLZ16, JD16, JLCZ17, JGGS16, JS19b, Kad17, KS18, Kam17, KB17, KM18, KCK18, KYY15, KMB15, KV15, KBG17, KAA16, KGMS18, KNP$^+$17, LS17a, Lad15, Lan18, LX18, LXW19, LBL15, LKS17, Lee18, LHK19, LW15, LXL15, LRX16, LLCG16, LW17b, LC17a, LLX17, LW17a, LMW18, LLD18, LHLL18, LGLC18, LDG19, LLL19a, LGYC19, LLG19, LSYY19, LSDY19, LWZZ19, LH19, LHY19, LLW18, LZ17b, LYG17, Lin16, LCZ18, LC15b, LD15, LZS15, LZ16b, LZZL17, LWC17, LXZ17, Liu17, LCX18, LDW18, LP18]. **method** [LLC18, Liu18, LFWC19, LF19, LM17b, LN19, LL17, Lu16, LSL17, LSL18, LM18, MTV17, MFX15, ML17a, ML18, MDG17a, MDGVR17, MDAP19, MG15a, MG15b, MR19, MHAA15, MS17a, Mao15, Mao16, MBM17, MVK19, Mar19b, MV16a, MS19a, ML19b, MLJ16, Men17, Mic18, MM15b, MMD15, MH16b, Mit15b, MC18, MT17c, Mol15, Mol17, MFLL18, MWY15b, MWY15a, MWY16a, MY18, MZ19, NE17, NN18a, Nem15, Ngo19a, Ngo19b, NTPVNTDT15, NZ15, NGGFM17, NDH16, NH19, NML18, NF17, NAM18, OM17a, OZ17, OM17b, PKMM19, PSK16, PS15, Par15, PSS17, PLP17, PP18a, PCJ17, Pis17, PI19, QWS15, QM15, QC18, QDBG18, Qui15, RKB16, RRM19, RVA15, RM17, RC19, RS18, RKV19, Reu16a, Reu16b, Reu17, RT18a, RR18, STZ16, SAA18, SR16b, Sak17, SBU$^+$17, Sar19, SEV$^+$18, SB18, SV19]. **method** [SA17, SD15, SSD16, SR16c, SSW19, SAH15, SPK18, SYZ19, SWH16, SVAKGR19b, SK16, SGG19, Skr17, SLH15, SM18, STS15, SAT15, SCP19, SJL16a, SVV18, SM16, SN19, SSZL16, SX18, Sun19, SHCJ19, SO16, SPM15, TJB17, TA17, TYMG17, Tan17, TH19, TX19, TBR16, TLFC18, TKH16, TP19, TBY17, UGG$^+$19, VFG18, VCL$^+$19, Vej18, VFGPG$^+$18, VFN18, VL19, WYW15, WXW15, WWZ15, WMI16, WWWZ16, WW16a, WZZ16, WZL17, Wan18f, Wan18g, WO19, WSG$^+$19, WWH19, WYLD19, WL19b, WXZ19, Wat16, WCS18, WA17, vtWvdHvdVV16, WL17b, WHWY18, pWmGkY$^+$19, XYZ15, XY16, Xie19, XC18, XMW$^+$15, XM16, XF16, Xu17, XDW18, XZN$^+$19, YZW15, YLL15, YW15c, YY16, YSCY17, YBLH17, YSL17, Yan17, YL18c, YSG18, YZH18, YCX19, YL19a, YZZ19, Yao16, YN18, YAA19, YZ15b, Yi19, Yos17, YJBM19, YSW$^+$18, YSL$^+$18, ZL18a, ZCH18, ZZ19, ZLS$^+$15, ZL15a]. **method** [ZM15b, ZqZwZ15, ZHWS16, ZZLY16, yZ17, ZZZ$^+$17, ZXQH17, ZHY$^+$17, Zha17a, ZS18b, ZTGZ18, ZZZ18, ZYZ18, ZQJY18, ZSL18, ZL18b, ZH18, ZL19, ZHC19, ZCS$^+$19, ZWT19, ZYY19, ZCL16, ZC16a, ZP19, ZZZ15, ZKRL15, ZL15b, ZC16b, ZC18, ZEBM17, ZH15, yZyMxG$^+$16, dR16, dSBV16, dFG17, BV16b, BV16c, GLS15, GTC16, MWY16b, PG16, RP15, ZWW$^+$18]. **methodological** [FLMS16]. **methodologies** [CNQRR17]. **methodology** [SMS18]. **Methods** [BGS19, HP17, SDG15, TJCC17, VACR15, ZDFF18, AFH16, Abd16, ABT17, AB18a, AL19a, Ais17a, AST19, AT17, AMCR19, ABK19, ÁD14, ÁD15, AK19, AK17a, AL19b, ABT16, AR15c, AGM15, ACMT17b, AG19, AEK19, AK16, AHKT15, AHK19, AL19c, BCT16, Bad18, BV18, Bai15, BBH$^+$17, BD16, BAMM19, BSGM19, BTKM15, BRS15, BSS15, BBM15, BySZ19, BGI18, BCCB15, BN15, CCTV17, CCZZ16, CJVW15, CDP17, CHS15, CLA19, CN18, CY15, CL19d, CDE18, CEJV16, CWH18, Con18, CJT15, CMQT16, CJT17, CMTV17, CGT18, CPRS19, DDP16, DP16, DKL$^+$18,

DP17a, DNL15, DNL16, DdSL16, DXZ18, DGM19, DMCC+18, DZM16, DT16, DD17, EWR18, FYY17, FP16b, FGF19, FR18b, GHM18, GCZ17, GLMT16, GHM17, GG17a, GPHAPR17, GT19, GHZ+15, GP16, GQM16, Guo17, HHR16, HMD19, HM19a, HH18a]. **methods** [HH18b, HMP15, HWH19a, HPW16, HC15, HHZ18, HH18d, HMT15, HRO16, IÇ18, Jan17a, JM15, JS17, JL19a, JL15, JL16b, JJ19, Jin16, JTCC18, KMRS16, KKS16, KEB19, KVO18, KS16, Ku16, KW18, KK15, KB16, KLL18, LW19a, LLT16, LA15c, LX16a, LY18, LSG18, LWXF18, LWDW18, LSW19, LSH+19, LLSM15, LS18a, LL15, LHZ15, LTY17, LHPZ18, LDZ18, LL18, LQ19, LV16b, Lu18, MZ16, MA16, MMO15, MN17, MN19a, MPM+17, MP15, MII16, Mil15, MT16b, MHL16, MSZ18, MS17e, MAF17, Moh19, MSH15, Mu19a, MHMP16, NDN19, Nak15, NBAK19, NHA17, NAH18, NADK18, Ou18, PS18, PMN19, PW16, PBJCM19, PP15, PKR18, PP19, Pol16, RNM16, RRM18, RMVA17, RWW17, RP16b, Ran15, REBF16, RRS19, SW17a, SKB15, SGL17, SS16c, SEÖ16, SLS18, SVAKGR19a, uIuD18, SW17b, Son16, SV16a]. **methods** [SM17, Su18, SK18, SW17c, TYS17, TYQ+19, TB18, TJCC16, VAR15, VARC17, WWM17, Wan18a, WZS18a, WW19a, WZWJ19, WR16, WZ17, WL17a, WL16, XW18, Xu18, XH19, YP18, YYL15, YZ16, YHZ18, YCF18, YTSZ15, YP17, YH18b, ZCST18, Zak19, ZuI17, ZST15, ZM15a, Zha15a, yZLX15, Zha16, ZCZM17, ZX19, ZYF19, ZYL19, ZY18, ZM16b, ZJ17b, ZZHS17, ZZ15, ZG19c, ZDL16, ZDF+17, LS17b]. **Metric** [BDFM19, HKAR18, FZW19, FZ15, KS17c, dHKdHMM15, RMMRC15, TBS18]. **Metric-like** [HKAR18]. **metrics** [CFMÖ19]. **metropolitan** [FAVGC+15]. **Mexico** [GRVC15]. **Meyer** [KR17]. **MFDSA** [DLY18]. **MFE** [LRX16]. **MFEM** [ZCH18]. **MFS** [RVC19]. **MHAM** [YMGA19]. **MHD** [LSH+18b]. **MHSS** [ZZ19]. **MHSS-like** [ZZ19]. **MIB** [FLZ19, CWXW17]. **MIC** [WZS+18b]. **Michaelis** [TK16]. **microchannels** [KAM16b]. **micromagnetics** [AMP15]. **micromagnetism** [AEK19]. **micropolar** [CZ16]. **microscale** [CRCM16]. **Microscopic** [BM19b]. **midpoint** [CCW17]. **Milan** [SPG+16a]. **mildly** [KMV16, XZXQ18]. **Miller** [OKGB19]. **Milstein** [GLMY18, ZWX18]. **Mimetic** [LV16b, BAK18, SFGJR+16]. **Mindlin** [Che18, NTPVNTDT15]. **mineral** [BBPR15]. **Minimal** [BYW18, CNT17, LZL16, Prz15, AM17a, AKR18, DSDV15, FGS19, GM17b, HG18, KP15, LCA17, LH19, LLY19, NP19, Pap16b, dBGMUA18]. **minimal-twist** [FGS19]. **minimal/maximal** [AKR18]. **minimax** [Fuk15, GGG19, MLS15, Yao16, Yao18]. **minimising** [SSKV17]. **minimization** [CZ17a, CPL+18, CPL+19b, CPL+19a, DLS17, KKP+19, LWZ+15, LZ18b, MHMP16, WS17, YSL17, YGC19, ZY19b]. **minimizations** [BLXD18]. **Minimizing** [ZYXT16, FGS19, Wu17, ZXQH17]. **Minimum** [DD16b, SWL15, LHJR15, Lu15c, MYG18, RKS16, SS18b]. **minimum-entropy** [RKS16]. **Minkowski** [BLV19, DV15, KLK16b]. **MINRES** [HJ17b]. **minterm** [ADMV19]. **Miranda** [NW19]. **miscible** [LRX16, ZCH18, ZZZ+17]. **Missing** [GLdCJS17, WSL17]. **misspecified** [EP18]. **Mittag** [AAM18, Hui16, IAAW18]. **Mittag-Leffler** [AAM18, Hui16, IAAW18]. **mixability** [PW15a]. **Mixed** [AFM19, CLV16, CL16, HS18c, MNFS18, SKB15, YSL+18, ZYF19, AÖ17, AG16b, Arm18, BGMS16, BS16, BK15a, BKK18, BEMA16, CLS18, CM19a, CCJ16, CHS15, CW16a, CL19c, Cou19, ET19, FM18b, GSM18, GSM19, GYS17, HR15, HM19a, HC15, HCSC16, HLZ19, IN16, KP15,

KDW17a, LLG19, LSYY19, LYS19, LLSM15, Mol15, MWY16a, NM17, RFLM16, SM19a, Sho18, YCF18, ZM16a, ZHY+17, ZYZ18, ZCL16, ZL17a, ZY19b, ZH15, iW16]. **mixed-hybrid** [HCSC16]. **Mixing** [DEY19]. **mixture** [BSLL19, GHL18]. **mixtures** [BRA16]. **Möbius** [GKM18, YZ15a]. **mock** [DDM15]. **mock-Chebyshev** [DDM15]. **mode** [HHKR15, SODBK19]. **Model** [CTAT19, KVO18, Per16, SSKV17, WYLD19, ALS18, AALMLM19, AHJ17, AHT18, AAB18a, ABB17, ABG17, ABL+19, AH19, AdHR17, AC17a, ÁAM15, ALMLM17, ACLM18, ABB18, AFM19, BE19, BSLL18, BSLL19, BYYV16, BFMP19, Ber15, BCS17, BEMA16, BKN16, BRA16, BLH+17, BBPR15, CM19a, CCC19, CP15, CCD16, Chi17, CFSS18b, CKL18, CVW17, CLVW18, CSE+19, CFMN15, CNQRR17, CD15, CLPZ17, DDG+16, DJAMJ17, DBdLdM+19, DMAS+16, DFGS16, DYD19, DI15, EGK17, EAKS18, ERR18, EG17, ET19, FNV17, FM19a, FM17, FNdO15, FLMS16, FF15, FL16, FY18, FCM19, FR19, GZH19, GRVC15, GKBG17, GLMT16, GKPS19, GMCD15, GC17, GLP16, GHL18, Gun18, GWY17, GB18, Hac18, HVV15, HYF18, HS18a, HZ18b, HWP+15, HRGZ17, HYZ16, HJL18, JCC18, JBFS15, JC19, JMSL19, JO17, JSW18a, JL19b, JYK16, JSW17]. **model** [JSW18b, JA17, KMD+16, KJ19, KKW16, KV15, KV17, KSW19, KPW17, KAS18, LRRV18, LV16a, LPST17, LRZ15, LHY16, LWV18, LZY17, LM17a, LCX18, LZX19, LPT17, LFKG16, ML17b, MLW19, MDVM17, MDG19, MDVR19, MFK+15, ME18, MVdRE+17, MVQDdR+18, MCGNBD17, MNFS18, Mel19, Mer19, MFLL18, MMPGCSP17, Mud19, NM17, NMKK19, NS16, NGGFM16, NN18b, OAN17, OLRPdCJ19, OS15, OE19, PD19, PBP16, PBMJC18, PC17, PCJ17, QLZ19, RdSLL16, RZ19b, RL18, SR16b, Sai16, SJRR17, SCMS18, SSZ19, SSCM18, SP17, SJL16b, SCG18, SZ16, Sta18, SV16b, TBAH16, TK16, TLE19, VS15a, VMM18, VZDV18, WH16, WC17, Wan18d, WRZ18, WW19b, WD16, WS16, Wu16a, WS18, Wu19, XWWI18, XY15, Xu18, YZPL18, YZJC15, YT16, YZY17, YL18a, You19, Yua15, YL18d, YL19b, YCW17, ZB18, Zha15b, ZZLY16, ZSW16, ZSZ17, ZHY+17]. **model** [ZLF18, ZYL18, ZS19, ZYY19, ZLPF19, Zha19b, ZH15, dAFvdMR19, dFG19]. **Modeling** [DSA16, GMSR18, GMSR21, JCC17, JCC19, MLV16, QLZ19, TJCC17, AMZ19, BRW16, BV16a, BdSFL16, Bot16, BHU18, BDF15, CROC16, DWS+18, DSN17, EM15, ESI+19, GR16, JC18, JTCC18, KS15b, LS17a, LE18, MAK19, MXW17, OSC15, Sch18, SH15, TJCC16, Xu17, ZHY+17, ZHC19]. **Modelling** [BN19, DNY17, Tun18, AK17b, DMCC+18, MX16, OD17, RdSMO17, RdSMO18, TBAH16]. **Models** [ZDFF18, AALMLM18, AA17, AG16b, ABP15, ALMLM16, BHN15a, BZ19a, BAMM19, BSGM19, BM19b, BKMO19, BKMO20, BCNP15, CRCM16, CEJ18, CLHMT15, Dan17, DLS17, DT17, DV16, DM17b, DP19c, FEC18, FH16, FH18, FFP16, FFKP17, GM16a, GMSRP16, GMSR18, GMSR21, GD16, GMW18, GVMR16, GVHMR17, GVMR19, GYQS15, GYLQ16, GYL16, GUB15, HT18, HXC19, HZ17b, JMSL19, JJX17, KLM17, KSR15, EP18, KS16, KK17, LY15b, LLZ16, LXD+18, LYG15, NCF+19, OAN17, RTV15, RANG15, RKS16, SSD16, SS18d, Sta19, SMS18, SN19, SPG+16b, TYMG17, TC19, TW19, VZDV18, VX19, WS17, WAGVRB19, YY16]. **Modern** [DLY18]. **modification** [MH16a, NAM18]. **Modified** [BDSB16, GKN16, KPT15, LL16a, MFX15, iW16, AR15a, AR16, BW19, CCW17, CL19b, CPL+19a, DL16a, DRST19, DLHY15, DZM16, EE16, FZW19, FNZ18, GKN18,

GKM18, GxLlW15, HWC16b, HS17c, HH18c, KPRA19, KMLB17, KAS18, Lan18, LX18, LW19a, LSH+19, LF19, LX17, MDGVR17, MM18, Mej17, MWY15b, TZZ18, XC18, YW15c, YMGA19, YSW+18, ZL17c]. **modified-upwind** [ZL17c]. **modulated** [BZ19a, DS17a, RP17]. **Modulus** [BBH+17, LY18, SPCSA16, WL16, ZL15b]. **Modulus-based** [BBH+17, LY18, WL16, ZL15b]. **MOL** [DM17a]. **mold** [DFGS16]. **molecular** [MXW17]. **Möller** [BW17]. **moment** [BHN15b, GL19, KF16, MG17, NCJ16, PA19, RKS16, ZLPF19]. **moment-recovered** [MG17]. **moments** [DD18a, Hag15, JN19, Lev18, MS17d, Ruj16]. **momentum** [AVB17, GHM17, MPM+17]. **Monge** [YX19]. **monitor** [XLS+19]. **monitored** [HLL15]. **mono** [HL18b]. **mono-energetic** [HL18b]. **monochromatic** [BHU18]. **Monodromy** [AGR15a]. **Monolithic** [BZ19b]. **monoliths** [DMCC+18]. **monomial** [CL15, JR15]. **Monotone** [Bog15, AK17c, CLS18, CW15a, CW17, GJ17, HMS19, MM18, SDH17, SLW17, TH19, WZH19]. **monotone-type** [CW15a]. **monotonic** [MTMZ19, QL19]. **monotonicity** [GS18a, GS19, MVM19, MSH15]. **monotony** [BCS17]. **Monte** [SD15, SSD16, ABT17, BH17b, CFMÖ19, Dan17, God16, HWZ18a, HWH19a, Kaw17, MOY18, Nak15, SMTdF18, SM19b, SX18, XW18]. **Monte-Carlo** [Dan17]. **Moore** [MM19]. **Moran** [You19]. **Moreau** [YP17]. **Morgenstern** [DG16b]. **morphing** [ZF15]. **Morphological** [TLLL19, LAVMA18]. **Morrison** [WLZ17]. **Morse** [CZ15]. **mortality** [GD16]. **mortar** [PSW18, YCF18]. **Moser** [AM15b]. **most** [BM18, CGT18]. **motion** [Lev18, OGR17a, LGB18, PBP16, Sho18]. **motions** [FGS19]. **Motivations** [Bai15]. **motor** [DT18]. **movement** [SK18]. **Moving** [MZ16, VFFGV16, ACLY19, AN17a, AN19, ABT16, BS18, DM17a, GO17, LBL15, LLSZ17, LC15b, Mir15, PCJ18a, SV16b, SN19, TW17]. **moving-mesh** [BS18]. **MP** [SMS18]. **MP-LROM** [SMS18]. **MPI** [GDC15a]. **MR** [HJ17b]. **MR-II** [HJ17b]. **MSEIR** [MVdRE+17]. **mud** [ZFK18]. **Multi** [AK16, HWZ18a, IABIPG17, LSH+19, Moo17, OSC15, QLT+17, VCL+19, VG15, yZyMxG+16, AK19, AGM15, AP18, BE19, BB18, BKK18, BJK19, BP17a, BDSB16, BHU18, CG17a, CCIL18, CLZL18, CLC18b, CLA19, CH19a, CGvA+15, CMRP17, Dan17, DS19, DSA15, DFRR15, EAKS18, ESI+19, FJ19, FLJT18, FFKP17, HYQ+18, IDGH18, IAMCI18, KV19a, KS16, LSBL18a, LLV18b, LNP17, LX17, MO18a, NDN19, PMN19, PAC15, RdV19, RANG15, Sar19, SLA19, WS17, WWM17, WSG+19, XMW+15, XqYL+15, YZPL18, YMGA19]. **multi-adjoint** [CMRP17]. **multi-agent** [MO18a]. **multi-block** [CLZL18, WS17, XMW+15]. **multi-component** [KS16]. **Multi-conformal-symplectic** [Moo17]. **Multi-Continuum** [VCL+19]. **Multi-core** [yZyMxG+16]. **Multi-criteria** [IABIPG17, IAMCI18]. **multi-degree** [BDSB16, LX17]. **multi-dimensional** [AK19]. **Multi-domain** [VG15]. **multi-element** [DS19]. **multi-elimination** [CH19a]. **multi-frequency** [BHU18, WWM17, WSG+19]. **multi-Galerkin** [PMN19]. **multi-input** [BJK19]. **Multi-level** [HWZ18a, CGvA+15, Dan17, YZPL18]. **multi-linear** [LLV18b]. **multi-objective** [CCIL18, XqYL+15]. **multi-output** [BJK19]. **multi-parameter** [RANG15]. **multi-patch** [FJ19, KV19a]. **Multi-phase** [OSC15]. **multi-physics** [ESI+19]. **multi-point** [AP18]. **multi-point-parametric** [AGM15]. **multi-product** [HYQ+18]. **multi-scale**

[CG17a, DFRR15, EAKS18, FFKP17, IDGH18]. **multi-state** [LSBL18a]. **Multi-step** [AK16]. **Multi-term** [QLT+17, BB18, CLC18b, CLA19, DSA15, FLJT18, LNP17, SLA19]. **multi-time-step** [BKK18]. **multi-valued** [BP17a, PAC15]. **Multi-variable** [LSH+19]. **multi-wavelets** [RdV19, Sar19]. **multicomponent** [BSLL18, CFS19]. **multicontinua** [VCC+19]. **multidelay** [ZZW16]. **Multidimensional** [RMMRC15, ACCF19, BK15c, SYD17, WCS18, Yam17]. **multiframe** [HS18a]. **multifrontal** [yZyMxG+16]. **Multigrid** [KLM17, lCCVV18, LP19, LLX17, LSH+18b, LX16b, MS19a, RTV15, SSW19, SWH16, SPM15, TC19, pWmGkY+19]. **multilayer** [MC19]. **Multilevel** [GT17, Chi17, Dos19, LXZ17]. **multimemetic** [NC16]. **multinomial** [HXC19, Zha17a]. **multiparticle** [CDH+17]. **multiphase** [BHN15a, ZWW+18]. **Multiple** [CM19b, CBMO15, HAH17, AAA15, ABK19, ATG18, GH16a, GH19a, GKN18, GKM18, GGK18, GYQS15, HH18b, HHZ18, JHPT15, LAVMA18, LDZ17, LLSZ17, LSBL18b, MLJ16, MSY16, MSY17, Nie15, PLP17, PN16, PP18b, PP19, SB16, SLQ16, VOB16, WZBM18, XH15, XGH18, Xie19, Yao18, ZCST18, xZWlC15, ZWZ+18]. **multiple-zero** [GKN18, GKM18]. **Multiplex** [PGRC18b, PGRC18a]. **multiplication** [OOO15, SS19a]. **multiplicative** [CDZ16, GVHMR18, JMS17, LZ16c, Lu16]. **multiplicity** [PN16, TLE19]. **multiplier** [AB18a, HWH19b]. **multipliers** [CLZS19, OZ18]. **multiply** [BD16, FJ19]. **multiply-connected** [FJ19]. **multipoint** [DD17, PP19, Reu16a, dlCYC15, YPD16]. **multipole** [ZX19]. **multiquadric** [WWL15, ZYY19]. **multiresolution** [AJR15, SRH17]. **multiresolutions** [KBL19]. **Multiscale** [BV16b, BV16c, CLVW18, GLS15, GHM18, GTC16, JO17, LS17b, LWV18, MWY16b, PPM16, PG16, RP15, SVL19, VMM18, AEKGP19, AEK19, CYY15a, CHR+15, CVW17, CPZ19, CL19d, CL19c, ESI+19, FCM19, FR19, GCY18, GDC15b, JL16b, KGL19, LA15c, Liu18, NPR18, SVV18, SPM15, TH19, YSCY17, ZCFW17, ZHY+17, ZZZ18, Zha17b, ZWW+18]. **multisplitting** [yZLX15]. **multistep** [HSAA19, LYS19, MAF17, MSH15, yZ17]. **Multivariance** [OD17]. **Multivariate** [DS17a, LCA17, NN17, AL18, BW17, COGD19, CM19b, CL15, Kaw17, KSR15, KNP+17, MLW19, Qi18, TLTJ18, WWL15, Wu19, ZW16]. **multiwavelet** [PPM16, SM18]. **multiwavelets** [AHL17]. **multiwise** [Lu15a, LJ16]. **Müntz** [EBJS19, GMG19, HNT19, NN18a]. **mutative** [WZS19]. **mutual** [ZJQW18]. **mutually** [ZTGZ18]. **myocardium** [AdQdS16, AMZ19].

nabla [Das18]. **Naive** [TK15]. **nano** [ALS19]. **nano-structures** [ALS19]. **nanoparticles** [CSS19, EAKS18, RdSLL16]. **Nanoscale** [ALS19, VS15b]. **Nash** [NDH16, NH19]. **natural** [FP18, LS17a, ML17b, WAGVRB19, WS18]. **Navier** [BAK18, CJCDLL19, CDW15, CGPR17, CHS15, CHS17, Chi17, CK16, GM17b, GGC15, GGRN17, HMY19, JLCZ17, KtTBK18, KK19c, LA15c, LZ16a, LHM16, LLC18, MT16b, MV16b, MV18, Ngo19a, QM15, SSG16, ZZZ18, ZL19]. **NAVIMA** [AGR+15b]. **near** [BIR17a, BLH+17, FFP16, Gor16, KDB17, LRKV16, SB19, SOMF19]. **near-best** [BIR17a]. **near-contact** [Gor16]. **Nearest** [KLK16a]. **nearly** [CZ17b, EJJ15, FdGKZ17, ML19a, ZLS+15, ZCS+19]. **negation** [CLM19]. **Negative** [Ahn15, APS15a, CCY18, COGD19, DYD19, Ery16, JS19a, LV16a, PW17, SR16c, WZS19,

Yao18, YC19]. **negatively** [HHS+15]. **negativity** [AHT18]. **Neighborhood** [SQRE16, CCZ+18, YLL15]. **neighbors** [FP18]. **neighbouring** [Qi19]. **Nekrasov** [GWLL18]. **Nelder** [SGK16]. **Nernst** [ABL+19, HS18c, SSZL16]. **nested** [GSVSM16, HWZ18a]. **nets** [God16]. **Network** [SSG18, HJ17a, IAMCI18, KBT15, NS19, NN18b, NN19, Ogu17, SPCSA16, ALS19]. **networked** [WS19]. **networks** [AG18, AY19, APYW19, AYSE19, AVGCMVM17, ASV17, BMLR15, CFG+19, DMR19, FR18a, LRRV18, LJ15, LZA19, LWS16, LWTQ17, LZL+18b, LDZ18, SZZ+16, TJSW19, bWzZjH16]. **Neumann** [CDKN15, ACEJ18, BySZ19, CDKN14, GHB17, JHK17, KM18, RVC19, SGG19, SLH15]. **Neural** [SSG18, AG18, AYSE19, HJ17a, LJ15, LMUZ18, LWS16, LWTQ17, LDZ18, NS19, NN18b, NN19, bWzZjH16]. **neural-dynamics** [LMUZ18]. **neuro** [SBP17]. **neuro-fuzzy** [SBP17]. **Neuroelectric** [PP16]. **neuron** [KGL19]. **neuronal** [BCNP15]. **neutral** [AYSE19, CPB19, GVMR16, GVHMR17, GVMR19, GH16c, JY17, LY15a, Lan18, LW19a, LZ16b, Mil15, OM17a, Reu16a, Tan18, Wan17b, WZ17, ZJ19, ZWH15a]. **neutral-type** [AYSE19, ZJ19]. **neutron** [VFFGV16, VFGPG+17, VFGPG+18]. **Newton** [AGR15a, AM15a, AH16c, AMS17, AEHVM18, AG19, BCFN16, CZ17a, Chu15, CJT15, DLW16b, DM16b, EHVM18, EHV19, FNZ18, Fer15, GHA+15, GKN18, GKM18, GM17a, GHV19, HLV+15, HR16, KLC17, LSDY19, LLW18, MG15b, NF17, RKB16, RVA15, RM17, SVW19, XYZ15, Xu15, ZY18, ZL15b]. **Newton-like** [AG19, GKM18]. **Newton-type** [CJT15, GKN18]. **Newtonian** [LLZ16]. **Nicolson** [GSRJ18, JKL+15, LMW18, LGYC19, Moh19, RZ19a, SW17d, ZZW16]. **Nieto** [DLY18]. **NIG** [JA17]. **Nikishin** [LP15a]. **nilpotent** [AGR15a]. **NIRK** [KK17]. **NIRK-based** [KK17]. **NLMC** [VCL+19]. **NMF** [TYQ+19]. **no** [CT15, Rom18, ZP16]. **no-arbitrage** [Rom18]. **Nodal** [ZC18, KLS19]. **node** [MLSK16]. **nodes** [CH19b, GGK18, HHZ18, PM15]. **noise** [CDZ16, GHB17, GLMY18, JC15, JMS17, KB17, Liu16, Lu16, PBMJC18, Yam19, ZZHS17]. **noises** [WS19]. **noisy** [NS18, ZLAA15]. **Non** [BAAA+15, BKMO19, BKMO20, CP16, HHS+15, LW19b, ZD19, AHT18, ABRS17, ADD+16, AG16b, AR19, BBCP16, BBC+18, BS16, BS17b, BWS17, BBPR15, CJCDLL19, CFR18, CCJ18, CH18, Che16b, CXW19, CK16, CNQRR18, CPL+18, CPL+19b, CPL+19a, DBX19, Das18, DD18a, DAM15b, DIJ17, EG17, GLMT16, GUB+17, GKN16, GHC16, HMS19, HLMS19, IÇ18, JMN+16, JY19, JN18, Kad17, KD17, KH18, KHLY17, KV17, KV18b, KS17b, LV16a, LLZ16, LGYC19, MTV17, MDVR19, MM18, MVQDdR+18, MHV17, MPH18, MP18, Mol15, NSYX17, OSC15, PHD17, PW17, PST18, Qi19, SuSR16, TBAH16, UGG+19, VCL+19, WCLL18, WW19b, WXZ19, WW16b, WA17, Yin19, Zak19, ZX16, ZKRL15, ZWH15b, VCL+19]. **non-autonomous** [BBCP16, BBC+18, CCJ18, CNQRR18, Das18]. **non-bandlimited** [Che16b]. **Non-commutative** [LW19b]. **non-convex** [CK16, CPL+18, CPL+19b, CPL+19a, HLMS19]. **non-degenerate** [Mol15]. **non-equilibrium** [MP18]. **Non-exchangeability** [BKMO19, BKMO20]. **non-extensive** [ZX16]. **non-globally** [DIJ17, ZWH15b]. **non-Hermitian** [GHC16, WXZ19, Yin19]. **non-homogeneous** [MDVR19, VCL+19]. **non-identical** [DD18a]. **non-intrusive** [CH18]. **non-isothermal** [BBPR15, OSC15]. **non-linear** [BWS17, CFR18, GLMT16, GUB+17, Kad17,

KV17, KV18b, PHD17, TBAH16, UGG+19]. **non-Lipschitz** [BS17b, CXW19, DBX19, IÇ18]. **non-local** [AG16b, AR19, VCL+19]. **non-Markovian** [WW19b]. **non-monotone** [HMS19, MM18]. **non-negative** [LV16a, PW17]. **Non-negatively** [HHS+15]. **non-negativity** [AHT18]. **non-Newtonian** [LLZ16]. **non-oscillatory** [JN18]. **non-overlapping** [ZKRL15]. **non-periodic** [CJCDLL19]. **Non-polynomial** [ZD19, WCLL18]. **non-rectangular** [DAM15b]. **non-regular** [KHLY17]. **non-relativistic** [KS17b]. **non-ruin** [EG17]. **non-selfadjoint** [WW16b]. **non-smooth** [GKN16, MTV17, Zak19]. **non-square** [JMN+16, WA17]. **non-stabilized** [BS16]. **non-standard** [MVQDdR+18]. **non-stationary** [ABRS17, JY19, LGYC19, SuSR16]. **Non-transversal** [BAAA+15, ADD+16]. **non-uniform** [KD17, MHV17, MPH18, NSYX17]. **non-viscous** [PST18]. **non-zero** [KH18, Qi19]. **nonautonomous** [MT16a, MP17a]. **nonbacktracking** [CFG+19]. **noncompactness** [HSAR18, Ros17, Sai19]. **Nonconforming** [LS17b, HRGZ17, KYS16, ZCZM17, ZML16]. **nonconstant** [Wan18c, Wan18d]. **nonconvex** [BP17a, LSL15, PAC15, SBCJ18, YSW+18, YWY19]. **Nondegenerate** [GV17]. **Nonexistence** [KFT17]. **nonexpansive** [Iid15]. **nonhomogeneous** [RVZ15]. **nonignorably** [WSL17]. **noninstantaneous** [LDW18]. **Nonlinear** [BO18, BV16c, lCCVV18, ELRR17, HYF18, MFK+15, VK16, ZBL+16, AAA15, AÖ17, AA18, ABK19, ÁD17, ABHVM16, ARTY19, AR15a, AR16, ACDT18, ACDT19, AEP15, AAC17, AJ17, AJ18, AD18, AK17b, AHKT15, AHK19, BM17b, BM18, BS18, BBB17c, BT17, Baz15, BPP17, Beh16, BMM17, BAMM19, BSGM19, Bie17, Bog15, Bog19, BK19b, CLS18, CLC18a, CR17, CCW17, CRR16, CD16b, CL19b, CS17, CS18b, CN18, CMQT16, CJSCT18, CTAT19, DDR19, DP17a, Das15, DSN17, DWXO15, DY19, DY15, ESAE18, ERR18, EHTL19, Fan15, FNZ18, FLN16, FGF19, FCM19, GM17a, GAA16, GS15c, GGC15, Guo17, HWCC15, HA18, HA19, HSAR18, HKAR18, HSWH15, HH18a, HSAA19, HK07, HZ19, HP15, HW17, HMT15, HKZZ15, IÇ18, JGTB15, JJX17, JLCZ17, KS17a, KYY15, KRR18, KV19b, KMV16, KBG17, KKK16, KMB+18]. **nonlinear** [LH16, LY18, LMW18, LMUZ18, LL15, LM15, LHPZ18, LF18, Liu18, LM17b, MLW19, ML19a, MDG17b, MDAP19, MD19, MMO15, MS17a, MD18, MYM16, MK17, Mil15, MH16a, MH16b, MA18, MSH18, MAS19, Mol15, MRS17, MJS19, NDN19, NE17, NBAK19, NW19, NDH16, NN18b, NXLX18, PTV17, PT17a, PCJ17, QWS15, QC18, Qui15, RRM18, RVA15, RM17, RZ19a, RdSLL16, RQ16, Ros19, RW16, RMK19, SE16, SAC17, SLH18, SY19, SK16, Sto18, SL18, SLW17, SW17d, SH15, TGJ19, TH19, THL+17, VZDV18, VDT19, VX19, WYW15, WCW15b, Wan17b, WWH19, WCS18, WL17a, XGH18, XY16, XHZ17, XY19, XDY16, XH19, YP18, YT16, YY16, YGS18, YZZ19, YAA19, YTSZ15, YZ15c, ZCST18, ZL15a, ZH18, ZHH+19, ZC16a, Zha17b, ZJ17b, ZZ15]. **Nonlocal** [VCC+19, WPA+18, ABN+18, AK18, Dos19, DAAF16, GG17b, PW16, TV16b, VS15a, VX19, ZLF18]. **nonmonotone** [DK16, Fan15, HW17, HWZ18b]. **Nonnegative** [BL18, CHYZ19, CS19, KLL18, SNY19, SVGM17]. **nonnegativity** [RR16]. **nonoverlapping** [ZCL16]. **Nonparametric** [CCY18, YC19, LSZB17]. **nonpolynomial** [FMR15]. **Nonreflecting** [LD19b]. **nonsingular** [GW19, MT15]. **Nonsmooth**

[KSD17, BK16, HW17, MHMP16, ZL15b]. **nonstandard** [MVdRE+17]. **nonstationary** [BK15a, HH19b, Ngo19a]. **nonsymmetric** [ATG18, CDW15, CGMM18, DSZ15, FwC17, GHY+18, HS17c, HH18c, JK19]. **nonuniform** [KK19c, LRKV16]. **Nordsieck** [DDP16]. **norm** [AK17c, CPL+19a, DI15, JL16a, LC17b, LF18, Pul17, SWL15, TBS18, YLL15]. **Normal** [CCZ+18, CCRN19, FS15, KSR15, NL17, NLG15, TV18, VMR17]. **normal-compliance** [VMR17]. **Normality** [CBMO15]. **normalized** [Beh16, HLLS18]. **Northern** [NGGFM17]. **Note** [LX17, AL19c, (Ba18, Chr18, Chr19, CLHMT15, FV17, LT18, LZY17, MSY17, MM15c, Ou18, PP18a, RZ19b, Tru19, Wan15a, WHS17]. **notice** [Beh16, GAA21, HWXC19b]. **notion** [MII16]. **Novel** [AJ18, BBCK19, AJY18, BE19, BLXD18, CCC19, FLJT18, LZC15, LWS16, ML17b, MLW19, MBM17, MVC19, NS19, NN18b, NN19, NAM18, Reu16b, RW16, TYQ+19, VFN18, WLZS18, Wan18g, ZL15a, ZZ18]. **nozzle** [SJRR17]. **nozzles** [SJRR17]. **nuclear** [LYS19]. **Null** [CBC+19, JGAFAL19]. **number** [BRA16, BS17c, CLPZ17, HLLS18, HMH18, JZ18, LDDF18, WZZ18, WGZ15, WZ18, YW16]. **numbers** [AdHR17, DWQ16, Dia18, DZ18, GX17, LDDF18, Li18, QG17, QCSG18, Qi19, YH18b]. **Numeric** [MTS17]. **Numerical** [AALMLM19, AKR18, AAB18a, AS18, Akh19, AM16, AT17, AVGCMVM17, ÁD17, ACLM18, BM17a, BM17b, BD16, BJK15, BV16a, BHRR18, BR15b, CD16a, CRR16, Ceb17, CW16a, CY18b, CLA19, CXW19, CSS19, CV19, CKB17, CEJV16, CFMN15, CNQR+18, DP16, DBdLdM+19, EM15, FEC18, FJLB18, GLMT16, GS18b, GMG19, GHB17, GMW18, Goć15, GAA16, GO15, GGC15, HH19a, HR15, HLL15, JL19a, JLCZ17, JS19b, Kan18, KF16, KS15b, LP15b, LMS17, LM15, MOPP18, MAS19, MTKO17, MR15, Mus17, NN18a, Nem15, NXLX18, OP19, OH18, PW16, PCJ18b, ROB17, RQ16, SE16, SRRJ16, SODBK19, SS19a, SEÖ16, SS18c, SPD15, SM17, TJB17, TMS+17, TPC17, TKH16, Wol17, XHZ17, XWWI18, XY19, XF16, XHH+19, YHZ18, YZZ19, YFS18, ZDGM17, ZDFF18, dlHV16, AVB17, Abd16, AM19, AK15]. **numerical** [ALMLM16, ALMLM17, ASV17, AHL17, AJY18, BM18, BBCP16, BBD16, BK19a, BW17, Bay15, Baz15, BGL17, BFMP19, Bog19, BS15, BKN16, BZ16b, BGS19, CRCM16, CHX18, CLC18b, CXZ19, CGSS17, CJ19, Col16, CEJ16, CZ16, DVA19, DAM15a, DSA15, DSN17, EK19, EC18, FLJT18, FLN16, FNdO15, GCTGC16, God15, GYS17, Gri19, GFPGF19, GJ17, GL19, HK19, HKAR18, HHKR15, Hei15, HRO16, IÇ18, JBFS15, Jeo15, JL19b, KB17, KLM17, KKS16, KV15, KV17, KW18, KB16, KPS17, KAS18, LS17a, LD19a, LD19b, LXW19, LLSZ17, LYS19, LDZ18, MTV17, MDVM17, MDG19, MD18, MYM16, MT17a, Mic18, Mil15, MIT15a, MV16c, Mud19, NV19, NSM16, NDH16, PCJ17, PCJ18a, PST18, Qui15, RC19, RdSLL16, Reu17, RW16, RT18a, STZ16, SAC17, SS18a, SLH18, SR16a, SOMF19]. **numerical** [SDH17, SR16c, SS16c, SAH15, SLA19, SVAKGR19a, SVAKGR19b, SM18, STS15, Sta18, Sta19, Su18, TV16a, TYMG17, TSMO17, TDA18, TV16b, TLL16, TF18, TN19, VM15, WCW15b, WC17, Wan17b, WG18, Wat16, XZ19, YYL15, YAA19, ZuI17, ZSL15, ZLS+15, yZLX15, ZJG+15, Zha19b, ZJ17b, ZJ19, ZDL16]. **Numerically** [CSTU17, BL16]. **numerics** [GLR16]. **NURBS** [LCC+15, YZ15a, ZZ16]. **nutrient** [AJ18]. **Nyström** [AK15, DDP16, DL16a, JM18].

O157 [BYWPA19]. **obesity** [KCDACC17]. **object** [CD16b, LWLL18]. **objective**

[CCIL18, XqYL+15]. **objects** [BTKM15, YOK15]. **oblique** [BG15, Per16, Yin19]. **Obrechkoff** [SVAKGR19b]. **observation** [CCY18]. **observer** [DLM16b]. **obstacle** [AKR18, GH16a, GG17b, GM19]. **obstacles** [DL16b, VG15]. **obtain** [BIJM+19, RRM19]. **occlusal** [BOF+16]. **Occupation** [WZ16]. **occurrences** [EG17]. **ocean** [LXZ17, LXZ18]. **odd** [CAO+19, TDA18]. **odd-even** [TDA18]. **ODE** [Mär17, MV16d]. **ODEs** [Abd16, AHP19, AK16, RRM19, RMVA17, Ran15, VARC17]. **Off** [SHC+19]. **Off-diagonal** [SHC+19]. **offline** [GH16a]. **offline/online** [GH16a]. **offsets** [ACDT15]. **Ohm** [CS18b]. **oil** [YSL+18, ZS17c]. **oil-water** [YSL+18]. **Old** [RS19, Mär17]. **Olkin** [BO16, DGM16b, NKD+19, OK16, OE19]. **On-the-fly** [CZ19a]. **One** [BD19, CJT15, DB15, AHK19, Bac18, CL19b, CJ18, CNQR+18, Dzh16, EWR18, GLMT16, GGW16, HHR16, HH16, HT18, KEB19, LC18, MSH15, NSV18, NCF+19, Prz15, QLZ19, RKS16, SM19b, WCW18, WZ17, WL17a, YLL15, ZJ17a, Zha19a]. **One-block** [DB15]. **one-dimensional** [CL19b, CNQR+18, GLMT16, HH16, SM19b, ZJ17a, Zha19a]. **one-factor** [HT18]. **one-leg** [MSH15, WZ17, WL17a]. **one-norm** [YLL15]. **One-point** [CJT15, Prz15]. **one-shot** [GGW16]. **one-step** [AHK19]. **One-way** [BD19, NCF+19]. **ones** [QLZ19]. **online** [GH16a, LWLL18, Lu18, YCF18]. **onset** [Mit15b]. **onto** [BG15, JCH17]. **open** [IANS15, KPS16, LSS19, NDH16]. **open-loop** [NDH16]. **OpenDA** [GRVC15]. **OpenFOAM** [MPM+17]. **operating** [Che19a]. **Operational** [Pis17, BS19, BS15, Iid15, MD18, MS17c, NE17]. **operations** [CY18a, DXML19, KS15b]. **Operator** [KV15, LK18, Rad17, SZ16, ZZLY16, AA18, CLS18, CM19b, CG17b, CDKN14, CDKN15, EE16, FFKP17, HZ19, Lee18, MV16a, Mej17, MV16b, MMRS15, SS19a, SPM15, WW16b, XZXQ18, Zha17b]. **operator-splitting** [MV16b]. **operators** [AKR18, AK18, AG16b, BLP17, CGN18, DD16a, EW18, GMW18, HM16, HVM18, KK19b, KKP+19, KT15, MT18, OD17, OZ18, SB16, WWL15]. **opinion** [MGMDGVR17]. **opposite** [JSL15]. **opposite-bordered** [JSL15]. **optical** [BHU18, DFRR15, TLE19, WCSL15]. **Optimal** [ALS18, DMM18, ERPD18, FAVGC+15, GLL19, GGRN17, HG17, HYZ16, KP15, LLY19, MO18a, MRMA17, MS15a, MSY16, MP17b, NSV18, Nke18a, Nke18b, PX17, PBP16, PZ18, Pis15, hShX17, SW17d, WWZ15, Wan15b, Wan18h, WRZ18, WS19, ZCST18, ZJQW18, ABH19, ABN+18, ABK19, AN17b, AFN17, AL19c, BYW18, BGMS16, BGMM18, BAMM19, BySZ19, CLC18a, CM16, CDRY18, CD15, DVA19, DI19, DGN19, DLM+19, Dun17, DD17, GCY18, GKN18, HYQ+18, HND18, HNT19, HOTZ18, HY19b, JW17, KD19, KV17, KCDACC17, LKN17, LPST17, LXL15, LQZ16, LXL16, LLX17, LX16b, LL18, LW19b, LN17, LN19, MLV16, MBM17, MG15c, MO18b, MSY17, Mud19, RRW17, Ros19, SE16, SWH16, SF16, Ugu18, VŽ19, WP17, YX19, YL19b, ZYXT16, ZXQH17, ZC19, Zho16, ZC16b, dFG17]. **optimal-optimal** [SF16]. **Optimality** [MLS15, SYZ19]. **optimisation** [NF17]. **optimization** [And16, And18, AEP15, BE19, BBB17b, Ber15, CFMÖ19, CDD+15, CD16b, DZM16, ESAE18, Fat16, GLT16, GC18, GSM19, GGW16, HSS19, HEA18, HFMM16, HZ17c, HWZ18b, Iid15, IABIPG17, IAMCI18, ICMPG16, JGTB15, KS15b, KTT16, LV16a, LaTG17, LMUZ18, LSDY19, LZS15, LL18, Lu16, MA19a, MMRS15, NRV18, PW15b, QC18, RKB16, Ros19, SV19, SHW19, SQRE16, VL19, WS18, XqYL+15, XY18a, XY18b, YLL15, ZZ19, ZHH+19, ZL17a, ZEBM17]. **optimize** [LW19b, SGK16, SW16a, SW16b].

Optimized [Xu18, YW15b, AMM19, AK15, CDP19, NGGFM16]. **Optimizing** [PB15, SM15a, YZ15a]. **optimum** [BDA17, MRMA15]. **Option** [BZ19a, HC17, VFG18, CEJV16, DS17a, DM17b, DP19c, FCJ16, FM19a, Hac18, HLL15, JHK17, JYK16, KC17, KDB17, KDB18, ST16b, SM18, SCG18, TYMG17, WH16, XW18, ZYY19, dSBV16]. **options** [CEJ16, FEC18, FNV17, GB18, HZ18b, HW18a, HT18, HXC19, HOM17, JYK17, JSW18a, LDK17, LM17a, MZ16, MNFS18, MFLL18, MV16d, NP19, PG19, RP16a, RZ19b, Sho18, SX18, TEG15, TB18, WC17, WZ16, XY15, ZS17a, Zha17a, ZYL18, ZY18]. **orbital** [OGR17a, LGB18, PS15]. **Order** [AK17a, BE15, CJVW15, Abd16, AH16a, AL19a, AMRX17, ALC19, AZ18, AMCR19, ACAC17, AH15, ACDT18, ALMLM17, ATV15, AR15c, AGM15, ACMT17b, Arm18, AFGT18, AJ18, AJY18, AN17b, BM17a, BJ16, BBCP16, BBC+18, BDA17, BMM17, BGMM18, BAMM19, BK16, BW19, BMG+19, CR17, CRCM16, CDF+16, CJLT15, CHR+15, CQW16, CW16b, CQ17, CLA19, CXZ19, CFWW19, CV17, CLV16, CT15, CHVRT15, CMQT16, CMTV17, CT17b, CJSCT18, CNQRR18, CTAT19, DMM18, DKL+18, DP17a, DVA19, DD18a, DSA15, DGM19, DSN17, DG16b, DCNY18, Dos19, DFS15, DM17b, DP19c, Elg19, EC18, FP16b, FR18b, FF15, FR19, GDM16, GM16a, GH19a, GGBTP17, GUB+17, GKN18, GKM18, GMG19, GLSW16, GLSW18, Gri19, GM17b, GGC15, GGRN17, Guo17, GTX+19, HHR16, HWCC15, HCL17, HHEG17, HMDSR19, HH18a, HSAA19, HWC16b, HLZ19]. **order** [HMT15, HIS16, JB18, KP15, KSDM16, KD17, Kha17, KJ19, Ku16, KMB+18, LRRV18, LKN17, Lee18, LX16a, LCL16, LSZ16, LW17a, LSG18, LCH18, LHLL18, LWZ19a, LLL19a, LSW19, LLL19b, LHY19, LZL+18a, LZY15, LTY17, LS18b, LM17b, MTV17, MCLW16, MG15a, MA16, MR19, MMS19, MBM17, MVdRE+17, MVQDdR+18, MVK19, MHV17, MO18b, MS19a, MDH19, ML19b, MMZ19, MA18, MAS19, MC18, MR15, Mu19a, Mu19b, NE17, NS19, NTPVNTDT15, NZ15, OGR17b, OGR19, OKGB19, PW16, PD17, Par15, Per16, PHD17, PC17, ROB17, RP16a, RRM19, RMVA17, Reu16b, Reu17, RT18a, RM19, RT18b, SEÖ16, SSW19, SSZ19, SVAKGR19a, SP17, SYD15, SJL16a, SMS18, SI16, TYS17, TAT18, UGG+19, WCW15b, WWM17, WZS18a, WLW19, WD19, WSL19, WKBB17, bWzZjH16, XWWI18, Xin16, Yam17, YZH18, YMGA19, Yi19, YP17, Zak19, ZST15]. **order** [ZLS+15, ZJG+15, ZJ17a, ZLZ17, Zha18, ZT18, Zha19a, ZYL19]. **ordered** [RMMRC15]. **ordering** [(Ba18, LHJR15]. **orders** [CN18, MFX15, TFS17]. **ordinary** [BJ16, BO18, BR15b, Con18, HIS16, KW18, LTY17, MG15a, NSW15, PRP19, RM19, TMS+17, WKBB17]. **orientation** [LAVMA18, TXFH18]. **oriented** [BN15, CLP16, Jan17a]. **originated** [SuSR16]. **Ornstein** [BCNP15, WSW15]. **orography** [TLL16]. **Orthogonal** [DV15, IANS15, Man15, PR16, ÁNPPCSA15, ÁAM15, CBMO15, DGSM15, FMP+15, HSS19, JMNB18, KVO18, MMMMB16, MB15b, hShX17, WCW18, WYLD19]. **orthogonality** [HZ17b, YY16]. **orthogonality-projection** [YY16]. **orthonormal** [JBT16, Pap16b, UPD+15]. **OrthoQuad** [BLLM+15]. **orthotropic** [GC15]. **oscillating** [KCX17, SS16c, SVAKGR19a]. **Oscillation** [WG18, BCA18, HG18, LZL+18a, TDA18]. **oscillations** [AKHSU18]. **oscillator** [LZL+18a, Ver16]. **oscillatory** [BR15b, CY18b, FYY17, FR18b, GCY18, HS17a, HS19, HX15, HXX16, JGGS16, JS19b, JN18, KL15, Kan18, LWDW18, LZY15, LTY17, ML18, Mol17, PS15, uIZ15,

uIuD18, WWM17, XM16, ZuI17, ZX19]. **Oseen** [ZP16]. **ossification** [FM17]. **ostectomy** [DMAS+16]. **Ostrowski** [Wan18g]. **Ostrowski-type** [Wan18g]. **outer** [PP15, PKR18, SSH16]. **outliers** [TJA18]. **output** [BJK19, LZL+18b, RNM16, VZDV18, ZWWW19]. **overdetermination** [DVS15]. **overlapping** [GMCD15, GC17, KK15, Vab18, ZKRL15]. **overload** [ÁRS16]. **overrelaxation** [AALZ15]. **oversampling** [ZHY+17]. **overspecified** [JAN17b]. **overview** [ABBB17, GOGM17]. **oxidation** [YBC+16].

P [DLY18, SVAKGR19a]. **P-stable** [SVAKGR19a]. **Pachpatte** [AAKT19]. **Padé** [AT17, BRZ15, Din16, LP15a, SW17c, Tra15, dlCYC15]. **Padé-type** [BRZ15]. **PageRank** [GXZ15, GW17, GJSC18, PGRC18b, PGRC18a, SHC+19, Tan17, WHS17, ZHWS16]. **pair** [AK15]. **paired** [HQ18]. **pairs** [CW15b, RM19, SS16a, Tru19, TFS17]. **pairwise** [BCC+18]. **pantograph** [GL19, JBT16, ROB17]. **paper** [EPC17]. **papers** [VAMDGR19]. **parabolic** [Abd18, ABH19, ACAC17, AFGT18, Bay15, BKK18, Bog15, BLP17, BK19d, CGSS17, CJ18, CJ19, DVS15, GCY18, GS15c, GS15d, GM19, GSRJ18, HHOT17, HHEG17, HC15, JAN17b, LLX17, LX16b, LSP18, MDAP19, MVM19, MHV17, MSV18, MAS19, MTKO17, PT17a, SGL17, Slo15, SZ18, TH19, UGG+19, Vab18, VS15a, VDS15, VDT19, YZ16, YX19, YZZ19, ZZW16, MV16d]. **parabolic-ODE** [MV16d]. **Paraexp** [KBG17]. **Parallel** [AG16b, CTZK18, GYQS15, HHKR15, LSP18, ZYZ18, ADMV19, BO18, COdSR16, DS15a, DF16a, HLG+17, KBG17, LSZB17, LN17, LN19, MF16, SM16, SM17, WLLC18, yZLX15, ZS17b, yZyMxG+16]. **parallel-in-time** [BO18]. **parallelization** [CSS19]. **Parameter** [CLX17, DVA19, NMKK19, PRRY18, RC19, TJA18, APYW19, And18, AALZ15, Bog19, CEJV16, CD15, DLM16b, FR19, GTC16, GMdV19, GS15d, Gun19, HG17, HHS+15, HMP15, HRR15, KMD+16, LZ18b, LS18a, LF19, MTV17, OP19, OV17, PB15, PCSR19, RABB19, RANG15, SWZW15, THC+18, Wan18c, Wan18g, WW16b, Xu15, XZ19, Zha15a, Zha18]. **parameter-dependent** [GTC16]. **Parameter-uniform** [CLX17, RC19]. **parameterization** [FJ19, SM15a, WLZS18, XMW+15, YLZG18]. **parameterizations** [KV18a]. **Parameterized** [FMC+18, LZ18c, Das15, JL16b, LZ17b, SP17]. **parameters** [AMP18, AMS17, BOF+16, BZ16a, CNQRR17, GB18, JAN17b, Mar18, NAK17, OZ17, VZDV18, Wan18d, XGH18, Zho16]. **Parametric** [SMS18, ZH16, AGM15, CMTV17, LCZ18, LZ19, OGR17a, LGB18, RRM19, SPD15, SL18, TA17, TXFH18, VŽ19, WZ18, Zag18]. **parametrically** [KP19]. **parametrizations** [SW16a, SW16b]. **parametrized** [AH16b, CTAT19]. **Parareal** [Wu16b]. **Pareto** [CDN19, Gun18]. **Parisian** [CLPZ17]. **Part** [AHKT15, AK17c, CGMM18, IGRL17, LWZ17, SLQ16, LD19a, LD19b]. **Partial** [RKS16, WCW18, AH19, BM17b, BDA17, BPP17, BRZ15, DA19, DT17, Elg19, FCJ16, FLJT18, FLN16, GZD+19, GUB+17, GLSW16, GLSW18, GR19, Guo17, KB17, KKS16, KMV16, KBG17, Lad15, LCZ18, LLY19, LFWC19, LX15b, MDT16, MDG17b, MS19a, MM15c, Moh19, SF18, SAT15, SYD15, Su16, TYS17, TGSS17, WLM16, XYZ15, YB15, ZH18, ZG19b, dlHV16]. **Partial-moment** [RKS16]. **partial-robust-ridge-based** [AH19]. **partially** [HZ17b, JJX17, LLL19b, LYG15, RWW17, RMMRC15, WYW15, Wu16a, YY16, ZSW16, ZSL18]. **participation** [Lu18]. **particle**

[TKH16, XqYL+15, XY18a, XY18b]. **particles** [Gor16, VRBS19]. **particular** [TLFC18]. **partition** [DMP19, DP17b, FP16a, ZS18c]. **Partitioned** [LY15b, WMI16]. **partitioning** [HKZZ15, pWmGkY+19]. **partitions** [BIR17a, DI19, GSVSM16, WO19]. **partner** [LE18]. **party** [DT18, MGMDGVR17]. **Pascal** [KF16]. **passage** [KKW16, STZ16]. **Passivity** [APYW19]. **Passivity-based** [APYW19]. **passport** [KC17]. **past** [DS19]. **patch** [FJ19, HS18a, KV18a, KV19a, LSYY19, Uda18, WZZ18]. **patch-based** [HS18a]. **patchy** [KJ19]. **Path** [GH16c, HR16, JYK17, Prz19]. **path-dependent** [JYK17, Prz19]. **path-following** [HR16]. **Path-regularization** [GH16c]. **pathogen** [BYWPA19]. **pathological** [LS17a]. **paths** [HAH17]. **Pathwise** [KB17, KRR18]. **pattern** [BIR+17b, SJRR17]. **patterns** [SFH+16, SS16c]. **PC** [AJ17]. **PDE** [CH19a, FR19, GTC16, LW19b, Pol16, SV19]. **PDE-constrained** [LW19b]. **PDEs** [BM19a, CTZK18, CHS+18, GPHAPR15, GPHAPR17, GFPGF19, GGW16, HM16, JL16b, LX16b, LV16b, Moo17, NW19, RRM18, UGG+19, YGS18, yZyMxG+16]. **Péclet** [BS17c]. **pedestrian** [BM19b]. **pediatric** [TS17]. **peer** [HPW16, KW18, SW17a, SGL17, SW17b, WKBB17]. **penalization** [LWZ19b]. **penalized** [BEMA16]. **Penalty** [SCP19, BySZ19, CD16b, CG17b, CP18, CPL+18, CPL+19b, ESAE18, HMS19, HWCC15, HWT15, HL18b, HCSC16, HP15, JMSL19, KYY15, MRS17, SZ18, WWH19, YCW17, ZC16a]. **penalty-based** [HWT15, JMSL19]. **penalty-free** [ZC16a]. **pencils** [MT16a]. **penetrable** [LXZ18, YL18b, YOK15]. **Peng** [KS16]. **Penrose** [MM19]. **pension** [Mud19, Nke18b]. **pentadiagonal** [MT15, WLZ15]. **pentagonal** [HLLS18]. **percentile** [ZZW18]. **Perception** [TS17]. **perfect** [UPD+15]. **perfect-reconstruction** [UPD+15]. **perfectly** [SBU+17]. **perforated** [CJCDLL15, CLV16, CVW17, CLVW18, SVL19, VCL+19]. **perforations** [VCL+19]. **Performance** [Ber15, CBP18, HLG+17, LSH+18b, RNM16, CY18a, Che19a, DF16a, DMCC+18, NGGA+18, RSID16, TW17, WL17c, WLC+18, Wu18, WH19, YSCY17, dMPF15]. **perfusion** [AdQdS16, CL18a]. **period** [BE19]. **Periodic** [LD19a, ÁD17, AK15, AL19c, BCNP15, CJCDLL19, CCZZ16, DCNY18, FM18b, FS19a, HK18, LCC+15, MCLW16, SY18, SM19a, SM17, VAR15, YSCY17]. **periodicity** [AKHSU18]. **periodogram** [HHS+15]. **permanganate** [YBC+16]. **Perry** [And17, Ou18]. **Persistence** [JC19]. **personalized** [PGRC18b]. **perspectives** [MLV16]. **Perturbation** [LWJ15, Wu19, DVA19, ERPD18, GGC15, HSAR18, ZEBM17]. **perturbations** [BB16, HKZZ15, LP15a, LI15]. **perturbed** [AS18, AZ18, BR15a, BZ16a, CLX17, CW16b, CGSS17, CJ18, CJ19, Das15, DVA19, ESSE18, EC18, GO15, GO17, HCA+18, HMH18, KAA16, KK15, Lin16, LC15b, LC17b, LM17a, LLHO18, LM17b, MTV17, OP19, PCSR19, Qui15, RC19, SAA18, SR16c, Sha15, YAA19, ZC18, dR16]. **Petrov** [DKL+18, Zha15b, ZG19c]. **Petrovski** [MDG19]. **Petviashvili** [ÁD15, ÁD14]. **Phase** [ARCA+19, ÁAM15, IL15, TFS17, YWW19, AG16b, CJP17, CM19a, CRCM16, CSW19, Cou19, ES18, EAKS18, Gru16, HMMV17, HCSC16, KS16, LWW17, LZW18, Mit15b, MV16c, OSC15, PGD+18, PG16, RNPK15, RP15, Sai16, SVAKGR19b, SVV18, Tho16, WAGVRB19, YSL+18]. **phase-field** [LWW17]. **Phase-fitted** [TFS17]. **phase-lag** [SVAKGR19b]. **Phase-type** [ARCA+19]. **phenomena** [TKH16].

phenomenon [ARTY19, HWP+15, KD17, SR16a, TDA18]. **Phi** [GGK18]. **photonic** [Bot16, LC17a]. **PHT** [QDY+19]. **PHT-splines** [QDY+19]. **physical** [Mar18]. **Physics** [CBP18, ESI+19, HVV15, WCSL15]. **physics-based** [WCSL15]. **phytoplankton** [AJ18]. **PI** [TJSW19]. **Picard** [MDT16]. **PID** [DMM18]. **pieces** [LZ18a]. **Piecewise** [LWXF18, Men17, BCFN16, CGMGV15, CS18a, Fuk15, GLR16, GB18, HH15, JD16, LDDF18, LL15, LSL17, LSL18, Maz18, Mil16, MA18, MGMGJLRB17, Pis15, WGZ15, WZ18, Zha16, dFLM18, vSV15]. **piecewise-linear** [dFLM18]. **piecewise-smooth** [GLR16]. **piers** [EM15]. **Pin** [VFGPG+18]. **Pin-wise** [VFGPG+18]. **pinning** [TJSW19]. **pipe** [BHN15a, LLSZ17]. **pipe-to-pipe** [BHN15a]. **pipeline** [HYQ+18]. **pipelines** [DS15a]. **Piper** [SST15]. **Piscounov** [MDG19]. **Pitkäranta** [LSD15]. **pivoting** [APS19b, HY19a, dBAAA15]. **pixel** [MA19a]. **plan** [HEA18, Mud19]. **Planar** [Lu15c, ALV19, AC17b, BLMS19, CL19c, FJ19, FW18, KV19a, LFCW19]. **Planck** [Wol17, ABL+19, FJLB18, HS18c, HL18b, LP19, LP15b, SRA+15, SSZL16, YHZ18]. **Planck/Stokes** [HS18c]. **plane** [ACDT15, DS19, DGM16a, GH16a, GZD+19, KM18, PDB15, SPD15, Tun18, TW19, YH18b, ZZW18]. **planetary** [LOAGBR15, NV19, XGH18]. **planning** [ASV17, DMAS+16, RFLM16]. **plans** [FPGK19]. **plant** [JCC17, JCC18, JCC19]. **plasma** [NCPD19]. **plastic** [HR16]. **plasticity** [DJAMJ17, HRS16]. **plate** [Bej16, Che18, FdGKZ17]. **Plateau** [HL18a]. **platensis** [NGGFM16]. **plates** [MM15b, NTPVNTDT15, SM17]. **Platonic** [ADG19]. **players** [PW15b]. **plus** [LaTG17, WLZ17]. **PML** [HJL18]. **PN** [Gia18]. **POD** [DVJ18, LHLL18, LFKG16, SSZ19, WMI16]. **POD-based** [DVJ18, LFKG16]. **Poincaré** [HM16, Tun18]. **Point** [BDIR19a, DSOBK16, SK18, UG18, WHZ16, ABRS17, ARTY19, AHS19, Arà19, AGM15, ABB+15, AB16, AP18, BR15a, BBC17, BGL17, CJP17, CDW15, CCZ+18, CHX18, CT16, CJT15, DTKP17, DXML19, EHV19, FZW19, FSNS16, FGF19, GLTW15, GS15b, GW19, HW18a, HXC19, HS17c, HH18c, HH18d, HCC18, Iid15, ID18, KYY15, KKK16, KBL19, KS17c, LZ16a, LZ17b, LZ18c, LZZ19, LM17b, LC16, LZ19, Miy15, MF16, Prz15, QC18, RCN17, dHKdHMM15, RMMRC15, Rót15, RT18a, SHS+15, SJ17, SJ18, SRH17, TBY17, WNML16, WZS19, WL19a, YZW15, YLL15, YZZL19, Zha15a, ZMTT19, ZWT19, ZM16b, ZL17b, ZG19b, ZwKN15]. **Point-to-ellipse** [UG18]. **point-to-ellipsoid** [UG18]. **point-value** [SRH17]. **Point-wise** [WHZ16]. **points** [Ahn19, AMB19, AS19b, AEHVM18, BP17a, DKLP15, EK19, EHVM18, GKN18, Har18, LKN17, LC16, MRMA15, MS19b, PAC15, uIZ15, WZ18, Yao16]. **Pointwise** [GK19b, MP17b]. **Poisson** [ABL+19, BBQ18, CJCDLL15, CY18a, DFLM19, GLP16, GH17b, HS18c, IN16, JL16a, LSL18, MF16, QLZ19, SSZL16, TLTJ18, VX19, XY16, XD17, YB17]. **Poissonian** [HH19b]. **Polak** [YZ15c, YWY19, ZEBM17]. **polar** [CT17b, YLZG18]. **poles** [AAKW16, IANS15, IAAW18]. **policies** [EPC17]. **policy** [NH19]. **policyholder** [FJD17]. **pollutant** [LWC17]. **pollution** [AVGCMVM17, LWC17]. **Polyak** [YZ15c, YWY19]. **polygon** [CK16]. **polygonal** [BBG+19a, Mu19a, Mu19b, WP16b]. **polygons** [AHS19, BDAG15, MS15b, ZWY16, Zyg17]. **polyhedral** [JL16a, PDO19]. **polyhedral-based** [PDO19]. **polylinear** [CP18]. **polymer** [AM16]. **Polynomial**

[BIR+17b, GZZZ16, LXW19, WZWJ19, AH18, BW17, BL17, BDG15, BLV19, CGMGV15, CV17, CH19c, DM16a, DSA16, FFP16, GS18a, GS19, GKM18, GV17, God15, GLP16, GR19, GM16b, GJ17, HMD19, HMMV17, HJS19, HW18a, HMP15, HB16, IANS15, JZ18, Kaz18, LDDF18, LP15b, Liu17, LX16c, Luo18, ML17b, MR19, MMD15, MSH18, MWY15a, NR19, PP18a, Pis15, PI19, RRM18, RRM19, SR15, SIAJ+19, TXFH18, TV18, VŽ19, VZDV18, WCLL18, WWL15, ZD19]. **polynomially** [AH16b]. **polynomials** [AQCJ17, ALV19, ÁNPPCSA15, ÁAM15, AGR+15b, ADG17, BM18, Baz15, Beh16, BWS17, CGN18, CBMO15, DGSM15, DV15, EDO19, EBJS19, FMP+15, GZDC19, HS17b, HC17, JBT16, JY19, KS15a, KR16, KSR15, LV16a, LSS19, LSH+19, LP18, MG15b, MMMMB16, Man15, MB15b, MT19, NN18a, NSM16, Orr19, PP18b, Qi18, QWZ18, RCPA15, ST16a, SAC17, WWM17, YZ18, Zag18, vD15]. **polytopal** [BAK18, CDE18]. **polytope** [YBD16]. **polytopes** [HAH17]. **population** [AALMLM18, AL18, ALMLM16, ALMLM17, BYYV16, BJK15, DV16, PCJ17, SKBT16, SS18d, Wan18d, WZBM18]. **populations** [Gun19]. **pore** [VMM18]. **pore-scale** [VMM18]. **poro** [ESI+19]. **poro-elastic** [ESI+19]. **poroelasticity** [BV16b, BV16c, HRGZ17]. **porosity** [KSW19]. **porous** [AAB18a, AEKGP19, AdQdS16, AFM19, CJCDLL19, CYY15a, CM19a, CFS19, CSW19, CSS19, DVJ18, ES18, EAKS18, FMMQ19, GT17, KLM17, LRX16, LLSZ17, LWV18, PG16, RNPK15, VCC+19, WAGVRB19, YSCY17, ZWW+18]. **portable** [GGC+18]. **Portfolio** [ZG17, ZX16, BE19, JS19a, KV17, OAN17, WW19b, XDZZ19, YL18a, ZB18]. **portraits** [IL15]. **posed** [BEJR17, DdSL16, HRR15, HJ17b, MRVV16, MP15, MHMP16, PB15, XZXQ18]. **posedness** [AMZ19, DBX19, LMA18]. **positioning** [VRBS19]. **Positive** [CQW16, DP17b, HQ18, CLS18, CEJ16, CS19, KV16, MDG17a, MDGVR17, MM19, Maz18, MK17, Miy19, Nie15, PCJ18a, QG17, SLW17, WXZ19, ZW16, Zha18]. **positively** [BCFN16]. **positivity** [CL19b, CEJ18, KRR18, MDG19, Sta19, SN19, TYMG17, ZZLY16]. **positivity-preserving** [CL19b, CEJ18, MDG19, ZZLY16]. **possibility** [GX17]. **possibly** [FF15]. **post** [TX19]. **post-processing** [TX19]. **posted** [XDW18]. **posterior** [AR15b, Mu19a]. **posteriori** [AHMY19, BBGG19, BEMA16, BBG19b, Das15, DGM16a, GP16, GHL19, GSRJ18, HH16, LC17b, LF19, MTCC15, Mu19b, SWZW15, YGC19, ZCZM17, ZP19]. **potential** [DS19, GDQ17, GD17, RCBG17, dFG17]. **Pouzet** [ZM15b]. **Powell** [BI17, BK19a, SM15a]. **Power** [GAA19, GAA21, BCDwK17, BCVV18, DNK19, GB16, HWCC15, LWZZ19, NKD+19, PD19, PG19, PP15, RN17, SVW19, Sho18, SBC16, GJSC18]. **powers** [BLP17, PRP19, Sad19]. **practical** [BE19, Das18]. **pre** [PC18a]. **pre-exposure** [PC18a]. **precipitation** [BBPR15]. **Precise** [Fuk15]. **precision** [NR15]. **Precompact** [SBCJ18]. **Preconditioned** [LS18a, AB18b, CGvA+15, LHZ15, LFWC19, RCN17]. **preconditioner** [AFN17, CDW15, CMM17, CTZK18, CLW17, CM18a, CH19a, DLLB17, LP19, LZZ19, LN17, SHC+19, WLLC18, ZZG+19]. **Preconditioners** [ABB+15, AB16, CGMM18, GC15, AKM18, BBC17, BFMP19, GHZ+15, Hon19, HCC18, LZ16a, LZ18c, LSH+18b, NZL17, OS15, VFGPG+17, WNML16, WL19a, YOK15, ZL17b]. **Preconditioning** [WLZ17, AK17c, AL19c, BK19b, LHJR15, NSV18, YZW15, vSV15]. **predator** [YT16].

Predecessors [ADMV19]. **predict** [ML17b, MLW19]. **predicting** [HWP+15, NGGFM16, NGGFM17, WS18]. **prediction** [CLZL18, GMSRP16, JA17, NGGA+18, RABB19]. **prediction-correction-based** [CLZL18]. **Predictor** [Elg19, BZ19b, PS15, YLL15]. **predictors** [AH19]. **predictors-responses** [AH19]. **Preface** [APW+17, CPS16, DGL16, HLV16, WWST18]. **preference** [YL18a]. **preintegration** [GKLS18]. **premium** [WP17]. **PrEP** [PC18a]. **Prescribed** [LP18, KLK16a, YB15]. **presence** [BV16a, ET15, MAF17, Sey18, TJA18, TDA18]. **preservation** [ABRS17]. **preserves** [BS18]. **Preserving** [ACDT18, BCS17, BGI18, RR16, AHT18, AK17a, Bal17, BM19a, BWS17, CL19b, CEJ18, CP16, GS18a, GS19, GZZZ16, GLZ18, Han15, HPW16, IJ18, JWZC18, KLK16b, LD19a, LD19b, LWZZ16, LMW18, MDG19, MDAP19, MN19b, NSW15, Sta18, Sta19, SN19, TYMG17, WZWJ19, Yos17, Zag18, ZZLY16, ZKRL15, ZL17c]. **pressure** [DD18b, LZRH19, MPM+17, SRRJ16, ZM16a]. **pressure-velocity** [MPM+17]. **preventive** [BYWPA19]. **prey** [YT16]. **price** [ÁRS16, ASV17, DT17, WZ16]. **prices** [DQIM18, ST16b]. **Pricing** [CP15, HW18a, JYK17, JSW18a, JQWW16, KC17, LM17a, NP19, PG19, BZ19a, CEJV16, DS17a, DM17b, DP19c, FCJ16, FNV17, GVHMR18, GB18, Hac18, HZ18b, HC17, HLL15, HT18, HXC19, HOM17, JYP18, KDB17, KDB18, LN16, MZ16, MNFS18, MFLL18, NM17, RP16a, RZ19b, SM18, SCG18, SX18, TYMG17, TEG15, VFG18, WH16, Wu19, XW18, ZS17a, ZYY19, ZL15c, dSBV16]. **Primal** [CDZ16, SBCJ18, KYY15, KCX17, TBY17, WWWZ16]. **Primal-Dual** [SBCJ18, CDZ16, KYY15, TBY17]. **primary** [SRRJ16]. **principal** [BB16, CYY+16, HS18b, HX15, KW16, Miy18]. **principle** [DM16b, GB16, MS15a, Sun16]. **principles** [Mej17]. **priori** [AW19a, Das15, GYX17, Mu19a, ZP19]. **priors** [AMM19]. **Probabilistic** [CCNQ+16, CDRY18, Ber15, CCNQ+17, HWP+15]. **probabilities** [ABP15, CYY15b, Tra15, YZJC15]. **Probability** [AM17b, EWR18, AALMLM18, CNQRR18, DSA16, EG17, FM18a, FL16, GLP16, GWY17, Kaw17, LWZ19b, RVZ15, SRA+15, YZY17]. **Probability-one** [EWR18]. **Problem** [BF18, PBS15, ALS18, ACLY19, ALS19, AB18a, Aks17, AFBJGJ17, AGM19, ACCF19, AMZ19, BGMS16, BBD16, BBGG19, Bay15, BFLP15, BR15a, BCA18, Bog19, BZ16a, BySZ19, BHMT16, CZ17a, CL19a, CHX18, CDD+15, CCX18, CT17a, CKL18, CG17b, CLV16, CKB17, Cou19, CPL+18, CPL+19b, DLLB17, DVS15, DWQ16, Dia18, DGM16a, DFRR15, ESAE18, ESI+19, FLJT18, FLZ19, FS15, FP16a, GM16a, GCY18, GYX17, GLT16, GO17, GS15c, GS15d, GG17b, GP16, GM19, HZ18a, HH19a, HMS19, HWZ18a, HMH18, HOTZ18, ID18, ICMPG16, JM15, JHK17, KM18, KR17, KFT17, KLC17, KV16, LT18, LRT17, LKS17, LaTG17, LSD15, LZC15, LA15c, LLCG16, LLSZ17, LZW18, LGLC18, LGYC19, LSYY19, LDL+19, LWZZ19, LHM16, LCZ18, LWJ15, LZZL17, LLW17, Liu18, LF19, LX15b, MYG18, MP15, MVC19, MM15b, MKKV19, MV16c, MMRS15, Ngo19b, OP19]. **problem** [OCU17, OCU18, OZ17, PMN19, PT17a, PGD+18, PCSR19, Qui15, RVC19, RCN17, RFO17, RMK19, RR16, RR18, SGK16, SWL15, SYZ19, SWZW15, SQRE16, Slo15, SVV18, Su16, TBR16, TV16b, TF18, TN19, THL+17, VDS15, VMR17, VM15, WWZ15, WPA+18, Wat16, WD16, WW16b, Xie19, Xu17, XCG19, Yak19, YW16, YBLH17, Yan17, YSG18, Yua15, YSL+18, ZCH18, ZM15a, ZZZ+17, ZHS18, ZYZ18, ZQJY18, ZL18b, ZHC19, ZX16, ZC16b, dFG17]. **problem-dependent** [ICMPG16].

Problems [FMC+18, AAA15, AAM18, ABH19, AKR18, AS18, Ais17a, AZ18, AA18, AT17, AM19, AMCR19, AW19a, AK15, ACEJ18, AGR+15b, AC17b, ABB+15, AB16, AFN17, AL19c, AP18, BS18, BYW18, BD16, BS16, BJK15, BK15a, BAO+16, BGNGR+17, BBC17, BKK18, BEJR17, BKLR15, BKLR16, Bog16, BW19, BK19b, BV16b, BV16c, BHN15b, BN15, BS17c, CDW15, CCZZ16, CWXW17, CDP17, CCJ16, Ceb17, CLX17, CM16, CH18, CS18a, CHR+15, CW16b, CDRY18, CH19a, CLVW18, CL19d, CV19, CGSS17, CP18, CDKN14, CDKN15, CW17, CGvA+15, CN16, CTAT19, CL15, DKP+19, Das15, DVA19, DdSL16, DTKP17, DFT18, DZ18, DVJ18, DWXO15, DK16, DYZ18, DCNY18, DM16b, DD16c, Dzh16, Dzh18, El 17, FCJ16, Fan15, FYY17, Fer15, FGF19, FMR15, GHM18, GWLL18, GHA+15, GDQ17, GD17, GN18, GS15b]. **problems** [GO15, GW17, GJSC18, GLZ18, GSRJ18, HLBP15, Haj19, HOS16, HWCC15, HL18a, HBH17, HA19, HWT15, HK07, HR16, HMP15, HRR15, HNT19, HC15, HWH19b, HS17c, HJ17b, HH18c, HH18d, HCC18, Iid15, Jeo15, JHPT15, JL17, JL15, JO17, Jin16, JLLZ16, JGGS16, KCK18, KF16, KCX17, KKP+19, KPS16, KMLB17, KT15, Kre19, KKK16, KR18, KK15, KtTBK18, LY15b, LBL15, LHJ16, LX15a, LX16a, LQZ16, LH16, LLX17, LW17a, LY18, LLZ18, LCH18, LZ18b, LWDW18, LZ16a, LZ17b, LZ18c, LZZ19, LC15b, LC17b, Liu17, LLHO18, LW19b, LMA18, LM17b, LSP18, MTV17, MCLW16, MJ18a, MTCC15, MRVV16, MD19, MR19, MHAA15, Mat18, Mit15b, MY18, MZ19, Mu19a, Mu19b, MT19, MHMP16, NHA17, NS19, NT15, NSV18, NN18b, NN19, NXLX18, PS15, PRRY18, PRP19, PTV17, PLP17, PCJ18a, PCJ18b, Ple17, QWS15, RMVA17, RS19]. **problems** [RP15, Reu16a, Reu16b, Reu17, RW16, RT18a, RMA19, SBU+17, SKB15, SGL17, SVW19, SSW19, SHC+19, SHW19, SY19, SS17, SK15, SZ18, Sun19, SI16, TGJ19, TAT18, VK16, VCC+19, VCL+19, VDT19, VAR15, VARC17, VF17, Vis15, WYW15, WXW15, WWWZ16, WNML16, WZS18a, WL19a, WWH19, WP16a, WL16, WHWY18, XY16, XZXQ18, XDW18, Xu18, XZN+19, YP18, YZW15, YZ16, YZZL19, YB15, YGC19, Yin19, Zak19, ZZ19, ZNG15, ZL15a, Zha15a, ZHWS16, ZYXT16, ZXQH17, ZCZM17, ZLZ17, ZL19, ZWT19, ZYL19, ZCL16, ZL15b, ZM16b, ZL17b, Zho16, ZC18, ZG19c, ZP16, vSV15, vV16]. **procedure** [CCT19, EL19, WL17c]. **procedures** [JK19]. **Proceedings** [BLLM+15]. **process** [ALS18, BCNP15, CCY18, CCC19, CY18a, DAM15a, JA17, NM17, RP17, Ruj16, STZ16, WRZ18, YS19, YC19, ZG17]. **Processes** [GMSR18, GMSR21, AS19a, BGMS16, FCJ16, GVMR16, GVHMR17, GVMR19, Hai17, HVMR19, Hui16, MX16, ML16, NP19, PA19, RP16a, STZ16, WSW15, WZ16, Ugu17]. **processing** [GDC15a, MMPGCSP17, TX19, ZCC15]. **produced** [Mia18]. **product** [BFLP15, Ceb17, CS18a, CLM19, DFS15, FMP+15, Hag15, HYQ+18, HOTZ18, Hua19, LZZ19, RT18b]. **Products** [Mar19a, OD17, NT15, PZ18, TGSS17, VS18, WL17c, WLC+18, Wu18, WH19]. **profile** [LWC17]. **program** [LXL15, ZqZwZ15, ZL17a]. **Programming** [dMPF15, BCFN16, CCIL18, CLZL18, CLZS19, CDE18, CP18, HP15, KYY15, LXL16, LZ16c, MB17, MLS15, MHC16, NTPVNTDT15, NN18b, NN19, Sun16, TBY17, ZC16a]. **programs** [FZ15]. **Progressive** [FMC+18, LLG+18, EL19, NAK17, Wan15b, WL17c, WLC+18, Wu18, WH19]. **progressive-iteration** [EL19]. **progressively** [ABB18, BSLL18, BSLL19, Gun18, Wan18e,

WS16, YZPL18, ZSW16, ZG19a]. **project** [FZ15]. **Projected** [FwC17, HMD19]. **Projection** [DK16, NDN19, Ais17a, AALZ15, BW19, DNL15, DNL16, DMMSK17, GD16, GKN16, JMNB18, JM15, JCH17, LDG19, MN17, MN19a, PS18, US19, bWzZjH16, YY16, Yin19, ZS18b, ZQJY18]. **projections** [GH16b, Per16, PBGG17, SS16a]. **Projective** [HJS19, BW17, MG15a]. **projectors** [DDR19]. **Prony** [Skr17]. **Prony-like** [Skr17]. **propagation** [BN19, CROC16, DLM17, FH16, FH18, FM17, GM16a, GTX+19, JCC17, JCC18, JCC19, KSW19, LMS17, MVdRE+17, Per16, SODBK19]. **propensity** [Lu18]. **Proper** [FMC+18, KVO18, SPD15, hShX17]. **Properties** [CAO+19, Lu15b, NADK18, NZ16, AH16a, BRS15, BP17b, CL19b, CJ16, lCCVV18, CP16, DP19a, DP19b, DXML19, FH18, HPT19, HCC18, KPS16, LV16b, Meh19, MMZ19, MSH15, Ogu17, QCSG18, TBS18, WNML16, Yos17, dR16, vD15, COGD19]. **property** [CQW16, DM16a, QDBG18, SM15b, Yam19]. **prophylaxis** [PC18a]. **Proportional** [MTMZ19, CSB18, HYZ16, TF18, ZC19]. **proportional-derivative** [CSB18]. **protection** [JYP18]. **protections** [JQWW16]. **prove** [HKAR18]. **Proximal** [MMRS15, YSL17]. **PSAI** [JK19]. **pseudo** [ACAC17, DTKP17, DXZ18, LZ18b, Su16, XZXQ18, yZ17]. **pseudo-contraction** [DTKP17]. **pseudo-differential** [XZXQ18]. **pseudo-heuristic** [LZ18b]. **pseudo-Jacobi** [Su16]. **pseudo-parabolic** [ACAC17]. **pseudo-spectral** [yZ17]. **pseudo-time** [DXZ18]. **pseudodifferential** [LL17]. **pseudomonotone** [TH18]. **pseudopotential** [SSD16]. **pseudospectra** [FV17]. **pseudospectral** [CLC16, Elg19, LZ15, MHAA15, NDH16, SLH15]. **pseudospectrum** [NR19]. **pseudostress** [BBGG19]. **psi** [QL19]. **PSO** [NGGFM16]. **PSPIKE** [ZS17b]. **PSS** [CDW15]. **PU** [MFLL18]. **pulsating** [GCTGC16]. **Pulse** [HS17b, XHZ17, Beh16, GO17, Gru16, MAS19, NE17, SOMF19, YT16, XY19]. **pure** [DGM16a, RFLM16]. **purely** [GKN18, Mus17]. **Purkinje** [AMZ19]. **Purkinje/myocardium** [AMZ19]. **purpose** [BBM15]. **pursuit** [KC19, WYLD19]. **put** [CEJV16, JYK16]. **PyFly** [GGC+18]. **Pythagorean** [BLV19, FW18, KLK16b, LAHB15, LFCW19, ZWY16]. **Pythagorean-hodograph** [FW18, KLK16b].

QN [HLBP15]. **QP** [JGTB15, VMR17]. **QR** [HZ17b]. **QUadratic** [BGI18, BCT16, PBS15, AK17a, BCFN16, BK19a, CCJ18, DKV16, GK18b, Haj19, HKAR18, HWH19b, KYY15, KS15a, LA15a, LXL15, LWZ+15, LXL16, LFWC19, LX15b, MA18, QWS15, SST15, SL18, WL19b, Xie19, YSG18, YZ18, ZL18a, ZL17a, ZWL18]. **quadratically** [Abd16, ZL17a]. **quadratization** [YZH18]. **quadrature** [AHBC15, AN17b, BGII15a, BGII15b, BC16, BAHC17, BK19a, BCCB15, CFSS18a, CBMPP15, DRS16, DRST19, EJJ16, FEC18, JR15, JRT17, KW16, KB19, MDT16, MIT15a, PM15, PC18b, PR15, Pul17, SE16, uIZ15, TB18, Wan18b]. **quadrature-based** [MDT16]. **quadratures** [CDP19, LL16b, MVPN15]. **quadrics** [CFJMVG16]. **quadrilateral** [AM17a, Che18, LSLZ17, YW15a, YW15b, ZCL16, ZML16]. **Qualitative** [FH18]. **qualitatively** [FH16]. **quality** [GLTW15, LZ19, SPG+16a, SPG+16b]. **quantification** [BK19d, CTAT19]. **quantile** [MS17d, Xie15]. **quantitative** [Mej17]. **Quanto** [TEG15]. **Quantum** [CRR19, GS15a, PBS15, BDGO15]. **quartic** [AIL17, BIR17a, BDIR19b, GK19a, HG17, IL15]. **Quasi**

[BDIR19b, CZ17a, FP18, God16, LSDY19, MOY18, Nak15, AS19b, BGII15a, BIR17a, BDIR19a, BIJM+19, BGNGR+17, CFSS18a, CMHHS17, CBMPP15, DDR19, DCNY18, ELL+19, El 17, FNZ18, GCTGC16, HLV+15, HL18a, Iid15, JW17, KW18, KB16, LH19, QC18, RKB16, SST15, SYZ19, TBAH16, WWL15, XW18, ZYY19]. **quasi-** [TBAH16]. **quasi-2D** [GCTGC16]. **quasi-consistent** [KW18]. **quasi-equidistant** [AS19b]. **quasi-interpolants** [BIR17a, ELL+19, SST15]. **quasi-interpolating** [DDR19]. **Quasi-interpolation** [BDIR19b, FP18, BGII15a, BDIR19a, BIJM+19, CFSS18a, KB16, WWL15]. **quasi-interpolations** [ZYY19]. **quasi-linear** [BGNGR+17]. **quasi-minimal** [LH19]. **Quasi-Monte** [God16, MOY18, Nak15, XW18]. **Quasi-Newton** [CZ17a, LSDY19, FNZ18, HLV+15, RKB16]. **quasi-nonexpansive** [Iid15]. **quasi-optimal** [JW17]. **quasi-optimality** [SYZ19]. **quasi-periodic** [DCNY18]. **quasi-Plateau** [HL18a]. **quasi-static** [CMHHS17]. **quasi-tangential** [QC18]. **quasi-variational** [El 17]. **quasilinear** [MHV17, MPH18, Pol16]. **Quasistatic** [VMR17]. **quaternion** [JWZC18, LWZZ16, LWZZ19, TXFH18]. **quaternionic** [ST16a]. **query** [MMRS15]. **question** [DV15, Mär17]. **questionnaires** [GLdCJS17]. **questions** [LSS19]. **queues** [TA17]. **Quintic** [LM17b, LX16c, BAHC17, FW18, GLV15, Lu15c, TXFH18]. **quintic-polynomial-based** [TXFH18]. **Quintin** [GRVC15]. **quota** [ZJQW18]. **quota-share** [ZJQW18]. **quotient** [MMRS15, Yos17].

R. [DLY18]. **raceway** [NGGFM16]. **Rachford** [HOS16]. **radar** [BTKM15]. **Radau** [MVPN15]. **Radial** [NRV18, YBC+16, Zha17a, AD18, FSNS16, GCTGC16, HW18a, ID18, Jeb19, KDB18, MAK19, SDH17, SJ17, SJ18, SVAKGR19b]. **radial-polynomial** [HW18a]. **Radially** [Bej16]. **Radiation** [FdGKZ17, CFSS18b, LP19]. **radiative** [CH17b, GRS19, Gia18, SWH16]. **radiative-conductive** [GRS19]. **radius** [SNY19]. **Radon** [GH16b]. **railway** [MCGNBD17]. **RAMs** [BIJM+19]. **Random** [NRV18, YBD16, AK16, BD19, (Ba18, BCJV18, BCVV18, CJCDLL15, CCJ16, CCNQ+17, CCJ18, CZLV17, CNQR+18, CDHP17, DEY19, FF15, GC18, GAB17, JN19, LSL18, Luo18, MM17, NL17, NC19, NCF+19, OLPT16, PP16, Pul17, RIK16, RdSMO17, RdSMO18, YL19b, ZLPF19, ZWZ+18]. **randomized** [YCW17]. **Randomizing** [CNQRR17]. **randomly** [LDW17]. **Range** [SHW19, BRS15, SS18a, ZZW18, ZP16]. **Rank** [LLW17, AGM19, AB18b, BLXD18, BDG15, BL16, CGMM18, CPL+18, CPL+19b, DY15, GH17a, GH19b, GW19, HS18a, Hua19, LDZ17, LSH18a, MOPP18, NS16, SWL15, SHC+19, WGLV16, WCW18, WXJ19, YFwC19, ZCD17]. **rank-correction** [WXJ19]. **rank-deficient** [GW19]. **rank-one** [WCW18]. **rank-structured** [BDG15, Hua19]. **rank-two** [ZCD17]. **ranking** [GX17]. **rankings** [CGPR16]. **Raphson** [SVW19]. **Rapid** [BEHL17, PKR18, Ngo19b]. **rapidly** [BR15b]. **Rate** [dlCYC15, AL19b, EL19, GVMR16, GVMR19, HZ18b, HLM18, ID16, JC15, KHLY17, LZ17a, LLZ16, LWZ19a, Mok15, NMKK19, NN17, RZ19b, Tan18, Wan18b, You19, ZCC15, ZS17c]. **rate-type** [LLZ16]. **rates** [BZ19a, HK07, LX18, LW19a, LLY19, MYG18, Mao16, PX17, TGJ19, ZS17a, dFG19]. **ratio** [GSM19, PP19, Qi19]. **Rational** [FGS19, GLSW18, LLHO18, AHP19, AHJ17, ACDT15, Arà19, Bal17, BHN15b, CFJMVG16, Ceb17, CW16b,

CH19b, DMP19, DLMZ19, DD17, EDO19, Fuk15, GS19, GG17a, HJS19, IANS15, IAAW18, JSC18, LP15a, LA15b, MMPGCSP17, NSW15, PD17, SJ15]. **rationality** [CEJV16]. **ratios** [LKN17, Mar19a, SHW19]. **ray** [PGD+18]. **Rayleigh** [WLC+18, ZG19a]. **Razumikhin** [GL19]. **Razumikhin-type** [GL19]. **RBF** [DMP19, DP17b, FP18, MFLL18, RRS19]. **RBF-based** [DMP19, DP17b]. **RBF-PU** [MFLL18]. **RCLL** [DL16b]. **RCP** [SPG+16a]. **re** [FLM17, LZS15]. **re-initialization** [LZS15]. **re-visited** [FLM17]. **reachable** [RRW17]. **reaching** [LWZ19b]. **reaction** [APYW19, AMCR19, AK19, AAKW16, BK15c, BK16, Bog19, CFX17, CJ18, CEJ18, DP16, DF15, DVA19, DAM15a, DAAF16, GHM18, GPHAPR15, GPHAPR17, GO15, HSWH15, KK15, Lee18, Lin16, LK18, MR15, RC19, Rät15, RR16, SR16c, SS16c, SJ18, SB16, SZJ19, ZKRL15]. **reaction-diffusion** [Bog19, CJ18, Lee18]. **reaction-subdiffusion** [DAM15a, SJ18]. **reactions** [CSE+19]. **Reactive** [CSE+19, OSC15]. **reactors** [OSC15]. **Real** [LWZZ16, MG15b, AdHR17, AAKW16, AKM18, BLH+17, CNQRR17, GOGM17, GB16, HW18a, IAAW18, JWZC18, KS15a, LDDF18, LSS19, PW17, SH18, SH19, TBS18, WG18, ZS18c]. **real-time** [BLH+17]. **real-world** [AdHR17]. **realistic** [XDZZ19]. **Realizable** [OZ18]. **realization** [BCMP16]. **realizations** [Bai15]. **rebates** [LDK17]. **reciprocal** [QG17]. **recognition** [LZ19]. **Recombined** [HXC19]. **reconstruct** [RVC19]. **reconstructing** [Che16b]. **Reconstruction** [CL18a, CS18b, GS15d, Hag15, Mok15, TKMT17, WP16b, ABK19, CGvA+15, DVS15, GLTW15, GSRJ18, KGL19, LSG18, LSYY19, LD15, SAH17, THC+18, UPD+15, ZCC15, ZLAA15]. **reconstructions** [AMM19, Vej18]. **record** [PD19, Wan17a]. **records** [RABB19]. **recovered** [MG17]. **Recovering** [KV19b, dAFvdMR19, BBQ18, LWC17]. **Recovery** [FM18a, MS17d, TNTL18, Zak19, ZY19b, DGH15, GZZZ16, JC19, KC19, LSH18a, LC19, LXZ18, Skr17, WYLD19, WZWJ19, YP17]. **recruitment** [DT16]. **recruitment/renewal** [DT16]. **rectangular** [CZ17b, DAM15b, HC15]. **recurrence** [CHVRT15, CBMO15, REBF16]. **Recursive** [ADG17, Liu16, Nat19, JB18, QWZ18, RMA19, SY18, WS19]. **recursively** [pWmGkY+19]. **rediscovery** [GD18]. **redistribution** [DKP+19]. **Reduced** [JL16b, BMLR15, CH18, DKLP15, DSN17, EK19, LHLL18, SSZ19, SJL16a, SMS18, XWWI18]. **reduced-order** [DSN17, LHLL18]. **Reduction** [AvG16, AHJ17, ABB17, ABG17, AMCR19, AC17a, BDSB16, CR17, CTZK18, CST+16, CVW17, CLVW18, CMRP17, CD15, CTAT19, Dan17, FR19, HL15, JO17, KVO18, LWV18, LFKG16, LX17, MFK+15, MWY15a, Per16, Rad17, SB19, SP17, SV16b, VMM18, XW18, YZ15b, AdGvG19]. **Reductions** [CRG19, RRM18, RRM19]. **reductive** [SZM+18]. **Reeves** [JJ19]. **refinability** [CPRS19]. **refinable** [CJ16]. **refined** [JL15, NML18]. **refinement** [DG16a, JMNB18, KS15a, KHS+18, LW15, LL16a, LW17b, MII16, MS15b, SM15b]. **refinements** [MPS19]. **refining** [FwC17]. **Reflected** [DL16b, HMKCR19]. **reflection** [CJ16]. **reflexive** [BKLR15, GLT16]. **regime** [BBD16, DF16b, DT17, Gor16, JQWW16, KKW16, KV17, KS17b, LZ17a, MZ16, MGMDGVR17, RP16a, Su18, WW19b]. **regime-switching** [KKW16, KV17, LZ17a, WW19b]. **region** [ESAE18, HP15, RKB16, RS16]. **regions** [AC17b, CDF+16, MFWK18, PR16, SBU+17]. **registration** [TC19]. **regression** [AH19, AdHR17, BLH+17, CCC19, GYQS15, LSH+19, MG17, SZM+18, TW17, Xie15,

YZPL18, ZPL17, ZPL18]. **Regula** [SV19]. **regular** [APS15b, APS17b, APS17a, APS19a, APS19b, KHLY17, SS16a, Tru19, Vis19, WZZ18]. **regularity** [CBC+19, GH16b, LLY19, SZ18]. **Regularization** [HRR15, KR17, KH18, BBH+17, CPL+19a, DWQ16, GH16c, HZ17c, IGRL17, LWZ+15, LH16, LF19, LSL15, MRS17, PRRY18, PB15, SV19, SWZW15, THC+18, WWZ15, WWH19, XC18, XZXQ18, YW15c, ZqZwZ15]. **Regularized** [LLD18, ABB+15, AB16, Che16b, CSXY19, CP18, DAM15b, LZ18b, LLG+18, TW17, WSL19, ZPL17, ZPL18]. **regularizer** [GS18b]. **regularizing** [DdSL16, HJ17b]. **regulation** [You19]. **reinforced** [RL18]. **reinsurance** [ALS18, HYZ16, HOTZ18, HY19b, LRZ15, WP17, ZJQW18, ZC19]. **reinsurance-investment** [LRZ15]. **reinsurer** [HOTZ18, LRZ15, WRZ18, ZJQW18, WP17]. **reinsurers** [MSY16, MSY17]. **related** [ÁNPPCSA15, BKLR16, BCA18, CDD+15, GGG19, Hui16, ML17a, Meh19, PS15, SB19, WS18, Yak19]. **relation** [CLM19, SvG15, Sun16]. **relations** [CHVRT15, CBMO15]. **relationship** [OSMZ18]. **Relative** [SZM+18]. **relativistic** [KS17b]. **Relaxation** [CKL18, AL19b, DF16a, JMN+16, Lad15, LZL+18a, YZH18]. **relaxed** [CDW15]. **release** [YBC+16]. **Reliability** [BSLL18, BSLL19, ET19, FOK15, GMSR18, GMSR21, Kam17, LSZB17, OE19, YZPL18, BBM15, ET15, Ery19, FPGK19, Gun18, LSBL18a, LSBL18b, MM17, RdSMO17, RdSMO18, ZG19a]. **Reliable** [Gia18, CEJ16, HRS16, MT17a, WR16]. **remaining** [GUB15, OLRPdCJ19]. **remark** [ZT18]. **remarks** [LJX17]. **remediation** [YBC+16]. **remeshing** [NLG15]. **remodeling** [CCD16]. **removal** [CDZ16, Lu16]. **removals** [WS16]. **renewable** [BGNGR+17]. **renewal** [BRA16, CLHMT15, DT16, FL16, YZJC15]. **reparametrization** [SPD15]. **Repeated** [DXML19, CN18, VL19]. **Replacing** [FGF19]. **replenishment** [EPC17]. **replicating** [CDD+15]. **represent** [Kre19]. **Representation** [HH15, OD17, COGD19, Kam16a, PP18a, TYQ+19, ZH16]. **representations** [BRZ15, CNT17, KGL19, MT17b, QL18, Qi18]. **represented** [MGMGJLRB17]. **Reprint** [BKMS18b, XY18b]. **Reproducing** [AVB17, SAA18, AAA15, AA16, AP18, BJM16, BH17a, CDHP17, JY19, JW17, KMB15, LW17a, ML19b, Sak17, VFG18, WGHR17, XZN+19]. **reproduction** [CH19c, DM16a, WWL15]. **research** [XY19]. **researchers** [DLY18]. **reserving** [DT18]. **reservoir** [LZRH19, NGGFM17, hShX17, WLLC18]. **reservoirs** [ZHY+17]. **reset** [BIJM+19]. **Residual** [MTCC15, YCF18, BO16, BBG19b, DGM16a, GAB17, GHC16, HHS+15, HW17, HLLY19, JL15, LH19, PT17b, RW15, YSG18]. **Residual-based** [MTCC15, DGM16a]. **Resistive** [BIJM+19, ARCA+19, LSH+18b]. **resolution** [GCTGC16, HWH19b]. **Resonance** [EGK17, ACEJ18, QLT+17]. **resonant** [NCPD19]. **resonating** [YOK15]. **resources** [BGNGR+17]. **respect** [LLW17]. **response** [ÁRS16, BdSFL16, BHU18, LRRV18, SH15, ZP16]. **responses** [AH19, SM17]. **Restarted** [GHY+18, AvG16, NML18]. **restarters** [MAF17]. **restarting** [CSB18, xZWlC15]. **Restoration** [AEP15, BBM15, BEJR16, CFR18, CG17a, KKP+19, LSL15, PKMM19]. **restoring** [HLG+17]. **restrained** [CS17]. **Restricted** [BCNP15, Wu16a, BRS15, ZZW18]. **restriction** [Xia17]. **Restrictions** [ADG19, HB16, ZLPF19]. **results** [AM15a, CGN18, FZW19, GH16b, GAB17,

GWY17, HHKR15, KS17c, KCNH16, LXL16, LSS19, LLW18, MN19a, MT15, NSV18, Pis15, RP17, SKC+19, STZ16, SHS+15, SLQ16]. **Resuspension** [ZFK18]. **retardation** [SYD15]. **retarded** [BEHL17]. **retinal** [CNJM18]. **Retraction** [Beh16, GAA21, HWXC19b]. **retrieval** [LZW18, PGD+18, YWW19]. **return** [ID16, YZJC15]. **returns** [FL16, GWY17, KElY16]. **revenues** [RVZ15]. **reversed** [BD19]. **reversed-hazard-based** [BD19]. **reversible** [AHK19, CSE+19]. **reversion** [HOM17, ID16]. **review** [CDN19, OT17]. **Revised** [FYY17]. **Revisit** [CKKJ15]. **Revisited** [AIL17, BN15, DS19, Mir15, SZ16]. **revolution** [VL15]. **reweighted** [LSH18a, ZLAA15]. **Rhythm** [LZL+18a]. **Ribière** [YZ15c, YWY19, ZEBM17]. **Riccati** [CCNQ+16, wCW15a, FwC17, HP17, LC18, Miy17, Miy19, Sak17, YFwC19]. **rich** [SQRE16]. **Richards** [CYY15a]. **Richardson** [BR15a, ZDF+17]. **Ricker** [You19]. **ridge** [AH19]. **Riemann** [AÖ17, BD16, JLLZ16, SF18]. **Riemannian** [CRS+18]. **Riesz** [CJLT15, THL+17]. **right** [ATG18, HHOT17, KH18, LWZZ19, MLJ16, MT17c, REBF16, xZWlC15]. **right-hand** [ATG18, HHOT17, MLJ16, MT17c, REBF16, xZWlC15]. **rigid** [ABT16]. **rigid-lid** [ABT16]. **rigidity** [MXW17]. **Rigorous** [GLR16]. **rings** [AG16a, NV19]. **Risk** [ZX16, ALS18, BBB17b, BRA16, CCY18, CPOG18, CLHMT15, CLPZ17, DYD19, EG17, FJD17, FL16, FY18, GZH19, GSM18, GVMR16, GVHMR17, GVMR19, GWY17, HYZ16, JYP18, LZY17, MX16, MSY16, MSY17, RP17, SSKV17, Ugu18, WP17, WRZ18, YZJC15, YZY17, YCW17, ZB18, ZG17, ZNS18, ZS19, ZS17c, FM18a]. **risk-minimising** [SSKV17]. **risk-neutral** [GVMR16, GVHMR17, GVMR19]. **risks** [DSDV15, Nke18a, Wan18e, WS16, ZSW16, ZC19]. **risky** [FY18]. **Ritz** [FJLB18]. **RK** [WLM16]. **RLW** [WD18]. **Robin** [LX16b, SYZ19, SGG19, SVL19]. **Robinson** [KS16]. **robot** [LMUZ18]. **Robust** [BV18, GSM19, HOTZ18, JJX17, LYG15, SJL16b, Ugu18, ZC19, AH19, CFX17, CC15, Fer15, LWZ19b, MTV17, RNPK15, SOMF19, TC19, yZyMxG+16]. **Robustness** [DKV16, GM16b]. **rock** [KMD+16, KEB19]. **rod** [WD16]. **Rodrigues** [FGS19]. **role** [GSVSM16]. **Root** [KS15a, BW17, CT15, GZDC19, Kow17, LKN17, Miy18, PN16, PP19, RP16b, YPD16]. **root-finders** [PN16]. **root-finding** [BW17, CT15, RP16b]. **root-ratio** [PP19]. **root-solvers** [YPD16]. **rootfinding** [BDG15]. **roots** [BGMM18, CN18, HH18b, PN16, SH18, ZCST18]. **Rosenau** [WD18, WD19]. **Rosenau-KdV** [WD19]. **Rosenau-KdV-RLW** [WD18]. **Rosenbrock** [Ran15]. **Rosenbrock-Wanner** [Ran15]. **rotating** [Bad18, DLW16a, OGR19]. **rotation** [FGS19]. **rotation-minimizing** [FGS19]. **rotationally** [Pap16b]. **rough** [XDW18, ZM15a]. **Rounding** [LX15b]. **Route** [RFLM16]. **routing** [SQRE16]. **row** [LDZ17, dlCYC15, ZS18b, JS17]. **row-rank** [LDZ17]. **ROW-type** [JS17]. **RSAI** [JK19]. **RTE** [THC+18]. **RTE-based** [THC+18]. **ruin** [BRA16, CYY15b, CLPZ17, EG17, FM18a, FL16, GLP16, GWY17, RVZ15, Tra15, YZJC15, YZY17]. **rule** [LZ18b, LWZ17, LF19, PM15, PC18b, RT18b, SBP17, VS18, ZJG+15]. **rules** [AHBC15, BC16, BAHC17, CFSS18a, CBC+19, DRS16, DRST19, God15, JR15, JRT17, MIT15a, OLPT16, Pap16a, Pap16b, PR15, Pul17, uIZ15]. **run** [KSDM16, OE19]. **run-up** [KSDM16]. **Runge** [GPHAPR15, ZM15b, AH15, AK15, AK17a, BYW18, BP17b, CWH18, DT16, GPHAPR17, GQM16, HHR16, HIS16, KS18, LL15,

MVK19, MAF17, Son16, SV16a, TFS17, WZS18a, ZST15, Zha16, ZZHS17, ZDF+17].

S [KEB19, ZWWW19]. **S-ROCK** [KEB19]. **Sabin** [BI17, BK19a, SM15a]. **saddle** [ABB+15, AB16, BBC17, CDW15, GW19, HXC19, HS17c, HH18c, HH18d, HCC18, LZ16a, LZ17b, LZ18c, LZZ19, Miy15, RCN17, WNML16, WL19a, YZW15, Yao16, Zha15a, ZWT19, ZM16b, ZL17b]. **saddle-point** [GW19, HXC19, LZ17b, YZW15]. **Sakurai** [PI19]. **sales** [HEA18]. **saliency** [JWQ18]. **Salpeter** [GLZ18]. **salt** [KMD+16]. **saltwater** [ZYZ18]. **same** [LA15b]. **Sample** [SP17, AFBJGJ17, GK19b, HWT15, NCF+19, WP16a, Wu18, WH19, ZqZwZ15]. **Sampled** [AG18, APYW19]. **Sampled-data** [AG18, APYW19]. **samples** [GLTW15, WP16b]. **Sampling** [JW17, ABT17, BFLP15, Che16b, DF16b, Kaw17, LWXF18, LXZ17, LZ19, PP16, YZZL19]. **Samuelson** [LPT17]. **San** [GRVC15]. **SAR** [CCRN19]. **SAT** [GDCK19]. **satisfaction** [GR16]. **SBP** [GDCK19]. **Scalable** [SM16, vSV15, BV18, LLZ16]. **scalar** [Had15, HLMS19, RVA15, SRH17]. **scale** [And16, BHRR18, BH17b, CG17a, CKKJ15, wCW15a, DSN17, DY15, DCNY18, DFRR15, EAKS18, FFKP17, FM19b, GC17, HLG+17, HJ17b, HWZ18b, HWXC19a, HWXC19b, IDGH18, JHJB17, KElY16, KSD17, LSH+18b, LF18, LL18, PM15, Per16, RKV19, SA17, SM16, VMM18, VFN18, WLLC18, WP16a, YFwC19, YZ15c, Zha17b, ZDL16]. **scale-invariant** [VFN18]. **scale-SOR** [HWXC19b, HWXC19a]. **scaled** [And18, FM18a, OP19, SSH16, SSG18]. **scales** [FR18a, LPT17, Ogu17, XH15]. **scaling** [And17, BS18, HZ17c, KLM18, YN18]. **scanning** [LDZ17]. **scatter** [SGK16]. **Scattered** [QWZ18, BIR+17b, DD16a, FP18]. **scatterer** [LD15]. **scatterers** [LXZ18, YL18b]. **scattering** [DFT18, GH16a, GH19a, JHPT15, KM18, Kre19, LP19, LLZ18, ZM15a, ZCFW17]. **scenarios** [LE18, SPG+16a]. **schedules** [IABIPG17, KCDACC17]. **Scheduling** [QDG+15, HYQ+18, Xu17]. **scheme** [ALC19, AA17, ABRS17, AAKW16, AJ17, AD18, BS18, BGMM18, BCS17, BK15c, BK16, CRCM16, CLX17, CS18a, CW15a, CDZ16, CLC18b, CFWW19, CGSS17, Col16, CEJ18, CP16, DTKP17, DBdLdM+19, DSOBK16, DY19, DL16b, Dun17, DM17b, DP19c, FP18, GCTGC16, GRS19, GGRN17, HK19, HCL17, HW18b, IDGH18, JK18, JY17, JMS17, JN18, KHLY17, KV16, KSW19, KKK16, KBL19, KAS18, LSD15, LCH18, LSP18, MB15a, MV16b, NAK17, RNPK15, RP16a, RZ19a, SKBT16, SFGJR+16, SYD17, Sta18, Sta19, SF16, Tan18, TZZ18, TF18, Vab18, WCW15b, WHZ16, WWZZ16, WD18, WLW19, WD19, Wu17, Yam17, YB17, YGC19, ZW16, ZMTT19, ZL17c, ZZ18, iW16]. **schemes** [AH16a, ARTY19, AH15, ACDT18, AK17b, BVZ17, BBC17, BKLR15, BP17b, CM19b, CJLT15, CFSS18b, CH19c, CSTU17, CDHP17, DM16a, DXML19, DS17b, GGG19, Gri19, GG15, HHEG17, HMDSR19, JB18, Jeo15, JY19, JC15, KBL19, KPS17, LSZ16, LLZ18, LW19c, MG15a, MC19, MVdRE+17, MVQDdR+18, Mat18, MHV17, MP18, MS17b, MV18, MV16d, NR15, SuSR16, SM15b, SW17d, Wan18a, WSL19, Xin16, XZ19, YZH18, Yos17, ZZW16, ZJ17a, ZWGL18, Zha19a, ZWH15b, ZWX18]. **Schmidt** [OZ18]. **Schnirelman** [Yao18]. **Scholes** [JHK17, KDB17, KV16, KV17, KV18b]. **Schröder** [PP18a, SH18, SH19]. **Schrödinger** [AL19b, AHKT15, CLC18a, COP17, CR17, HA18, HZ17a, LMW18, RZ19a, SVAKGR19b, SLW17, SW17d, TX19, VG17, WHZ16, WLW19, Zha17b]. **Schultz**

[PKR18]. **Schur** [BO18, NZL17]. **Schwarz** [AL19b, LN17, LN19, VFGPG+17, Xu18]. **Schwarzschild** [TW19]. **SCI** [GLLS16]. **Science** [DNY17, VACR15, WWST18, PT17b, VAMGR17]. **Scientific** [ZDFF18, ZDL16, ZDGM17]. **score** [LYG15]. **scoring** [WZBM18]. **scour** [EM15]. **SCR** [HJ17a]. **scramblings** [Vig17]. **screening** [PC18a]. **SDA** [DdSL16]. **SDC** [DdSL16]. **SDDEs** [LY15a, Tan18, ZWH15b]. **SDE** [AH15]. **SDE's** [MP17b, ABT17, AK17a, CXW19, DIJ17, Gri19, HRO16, Prz15, Prz19, STS15]. **Search** [NRV18, SQRE16, AGM19, AR16, CD16b, EK19, Fan15, FP16a, GC18, HSS19, HWZ18b, ICMPG16, JJ19, SGK16, WZS+18b, XqYL+15, YBD16, YWY19]. **search-based** [AGM19]. **searching** [BHMT16]. **seasonal** [GVHMR18]. **seasonality** [JCC19]. **Secant** [AM15b, KGMS18]. **Secant-type** [KGMS18]. **Second** [ALC19, CPRS19, DCNY18, MCLW16, TYS17, Abd16, AH15, ALMLM17, AEHVM18, AFGT18, BH17a, BBC+18, BMM17, BLM16, BW19, CRCM16, CHR+15, CXZ19, CLV16, DJC15, DRST19, EC18, EHVM18, GUB+17, GV17, HWCC15, HCL17, HLZ19, JB18, KP15, KD17, KMB+18, Lee18, LX16a, LCH18, LHY19, LZY15, LTY17, LM17b, MHV17, Men17, Mic18, Mu19a, Mu19b, NHA17, NAH18, NS19, NSM16, NTPVNTDT15, OGR19, PPM16, PA19, RRM19, RMVA17, Reu16b, SvG15, SSW19, SVAKGR19a, UGG+19, WCW15b, WWM17, YZH18, ZM15b, dR16]. **second-derivative** [Abd16]. **Second-order** [DCNY18, MCLW16, ALMLM17, BBC+18, CHR+15, CXZ19, HWCC15, HCL17, JB18, Lee18, LCH18, LTY17, NS19, NTPVNTDT15, RRM19, RMVA17, SVAKGR19a, WWM17]. **section** [KPS16, LPW+19]. **sections** [HG17, Hu16]. **sector** [IAMCI18, Zag18]. **security** [Nke18a]. **sediments** [ZFK18]. **Segmentation** [FJ19, DF16a, HMMV17, HLMS19, JWQ18, ZWZ+18]. **segments** [MGMGJLRB17]. **segregated** [GGRN17]. **segregation** [NGGA+18]. **Seidel** [ZPL18, CDZ16, ZPL17]. **SEIR** [MVQDdR+18]. **Selected** [VAMDGR19]. **selection** [IAMCI18, JS19a, LZ18b, OAN17, SP17, SJL16b, SV16a, WZBM18, WW19b, XDZZ19, ZB18, ZG17, ZX16]. **self** [AZ18, And17, BPP17, HYQ+18, JZ18, Kad17, NC16, OD17, Wan18g, YN18, GLLS16]. **self-accelerating** [Wan18g]. **self-adjoint** [AZ18, JZ18]. **self-balancing** [NC16]. **self-consistent** [Kad17, OD17]. **Self-Corrective** [GLLS16]. **self-diffusion** [BPP17]. **self-learning** [HYQ+18]. **self-scaling** [And17, YN18]. **selfadjoint** [WW16b]. **SEM** [PDO19]. **Semi** [HH18d, IÇ18, Vis19, AH16a, BCFN16, CKKJ15, CQW16, DI19, Fer15, FP16b, Guo17, HZ17a, JS17, KDW17b, KDW17a, KSW19, Lad15, LCC+15, LWL17, LOAGBR15, LM18, PS15, Tho16, TN19, WLM16, XZ19, Yao16, YCW17, dR16]. **semi-analytic** [KSW19]. **semi-analytical** [KDW17b, KDW17a, LOAGBR15, WLM16]. **semi-circular** [CKKJ15]. **semi-classical** [dR16]. **Semi-convergence** [HH18d]. **semi-definiteness** [CQW16]. **semi-differentiable** [Yao16]. **semi-discrete** [DI19, HZ17a, LWL17, Tho16]. **semi-embedded** [PS15]. **semi-explicit** [JS17]. **Semi-implicit** [IÇ18, AH16a, XZ19]. **semi-Lagrangian** [FP16b, Guo17]. **semi-linear** [Lad15, TN19]. **semi-local** [Fer15]. **semi-Markov** [YCW17]. **semi-NURBS** [LCC+15]. **semi-smooth** [BCFN16]. **semi-symmetric** [LM18]. **Semidefinite** [YB15, KYY15, NN18b, NN19, TBY17, ZC16a]. **semidiscrete** [LLY19, LMA18, PBP16]. **semilinear** [AFGT18, CZLV17, DVS15, DM16b, GS15d, MVM19, MTKO17, Ple17, RC19, Slo15, VDS15, ZZW16, vV16]. **Semilocal**

[CHVRT15, KGMS18, EHV19]. **seminorm** [CSXY19]. **Semiparametric** [HYF18, JMSL19]. **Semismooth** [ZY18, HR16]. **sense** [Col16]. **sensing** [AALZ15, CG17a]. **sensitive** [IDGH18, NLG15]. **Sensitivity** [KMD+16, BBB17b, SD15, SP17]. **separable** [CLZL18, CLZS19, LaT15, SY19, WS17]. **separation** [CL18b, GTC16, SA17, ZH18]. **septic** [LFCW19, ZWY16]. **Sequence** [AH18, DHAM17, HPT19]. **sequences** [AHBC15, ÁNPPCSA15, BE15, BDF15, SY18, dlCYC15]. **sequential** [HSS19, NPR18]. **series** [ABB17, AFGT18, BCVV18, DQIM18, DF16b, GLR16, MAK19, MJ18b, MGMGJLRB17, QLZ19, RN17, SBC16, WCS17, ZS19, ZY19a]. **SERK2v3** [KMV16]. **set** [BDFM19, GdLT17, LWW17, LaTG17, LZL16, LCZ18, LZS15]. **set-valued** [BDFM19]. **sets** [BE15, CGPR16, GGBTP17, Iid15, Man15, MS19b, RRW17]. **setting** [AW19a, HRS16]. **seven** [HWZ19]. **seventh** [BMG+19]. **Several** [LL18, GH16c, Gun19, JCH17, LSW19, Meh19, MT17c, NGGA+18]. **SGBEM** [VMR17]. **shale** [TV16a]. **shallow** [ABT16, CL19b, JL19a, LSG18, LFKG16, Xin16]. **shallow-water** [ABT16]. **Shape** [ABRS17, Bal17, HFMM16, SSG16, Uda18, BDG15, CFMÖ19, LA15a, LZS15, Wan18c, ZWZ+18]. **shaped** [DNK19, DB15, WHWY18]. **shapes** [MM18, WP16b]. **share** [ZJQW18]. **Sharp** [PGRC18b, TSMO17, Miy15, Zha19b]. **sharp-interface** [Zha19b]. **sharpening** [PBJCM19]. **Shaw** [ZBL+16]. **Sheffer** [CGN18]. **shell** [BEMA16, JL19a]. **shells** [Kaz18]. **Shepard** [CDDD19, DD16a]. **Sherman** [WLZ17]. **shift** [CM18a, HS17c, HH18c, HLLY19, JL15, NML18, RCN17, SR16c, WL19a, ZL17b]. **shift-invert** [HLLY19, JL15]. **shift-splitting** [CM18a, HS17c, HH18c, RCN17, WL19a, ZL17b]. **shifted** [CCZ+18, DSZ15, GHY+18, Gun19, JBT16, KBL19, LH19, SHCJ19]. **shifted-exponential** [Gun19]. **shifts** [LC16]. **Shiu** [WXY17, ZS19]. **shock** [BKMO19, BKMO20, Col16, DGM16b, ET19, OE19, VG15]. **shocks** [BO16, MV16d]. **shooting** [AAA15, FGF19, HAH17, SM16]. **short** [BBB17c, REBF16, SOMF19]. **shortest** [HAH17]. **shot** [GGW16]. **Shtrikman** [CJP17]. **SI** [HLV16]. **SIAC** [LRKV16]. **SIAM** [LPW+19, HLV16]. **SIAM-2015** [HLV16]. **side** [EM15, HHOT17, KH18, MPH18]. **sided** [LFWC19, WXY17]. **sides** [ATG18, MLJ16, MT17c, REBF16, xZWlC15]. **sign** [APS15b, APS17b, APS17a, APS19a, APS19b, CSTU17, GS18a, GS19, STS15]. **Signal** [LC19, Skr17, LMS17, ZCC15]. **signals** [AS19a, BCNP15, Che16b, JW17, TYQ+19]. **Signature** [Sch18, LSBL18a, LSBL18b]. **significance** [GSVSM16]. **Signorini** [GP16]. **silencers** [DSOBK16, SODBK19]. **similarities** [ALV19, HLV+15]. **Simple** [KR18, MV16a, BGMM18, BDAG15, JLLZ16, LKN17, LX15b, MY18, Mud19, Xie19, LZ16a]. **Simple-iteration** [MV16a]. **SIMPLE-like** [LZ16a]. **simple-root** [LKN17]. **simpler** [xZWlC15]. **simplest** [MT16b]. **simplexes** [VS18]. **simplices** [KKV19]. **simplicial** [SM15b]. **Simplified** [LW19c, ML19b, Gia18, WWZ15, XZN+19]. **simply** [MM15b]. **simulate** [Jeb19]. **simulating** [GTX+19, KS16, KSW19]. **Simulation** [AdQdS16, SPG+16b, AMRX17, AVGCMVM17, AG16b, CT16, CW16a, CL16, DBdLdM+19, DXZ18, DIJ17, DFGS16, GCTGC16, Hei15, HL15, JL19b, Kaw17, KSD17, LHY16, LWV18, LYS19, LDZ18, QDG+15, RNPK15, RQ16, dHKdHMM15, SRRJ16, TKH16, VMM18, WCW19, YBC+16, ZWW+18]. **Simulations** [LE18, BG15, COdSR16, CSS19, CY15,

GTC16, GGK18, NZ16, PDO19, RNM16, RdSLL16, VG15, WLLC18, YZY17, ZBL+16, dlHV16]. **simulator** [GGC+18]. **Simultaneous** [Abd18, GGW16, MDH19, ZZW18, HWZ19, PBJCM19, PP18a, PP18b, PI19, RP16b]. **simultaneously** [CV17, Xie19]. **Sinc** [HR15, MMO15, AKHSU18, Moh17]. **Sinc-collocation** [HR15, MMO15]. **sine** [Bac18, EGK17, LDK17, Orr19]. **sine-Gordon** [Bac18, EGK17, YTSZ15]. **sines** [Tru19]. **single** [AG16b, CS18b, FOK15, GVMR16, GGW16, HH18b, MA19a, RP15, SJL16b, WXZ19]. **single-factor** [GVMR16]. **single-index** [SJL16b]. **single-phase** [AG16b, RP15]. **single-step** [GGW16, WXZ19]. **singly** [WKBB17]. **Singular** [Chr19, AT17, BDA17, BAO+16, BS19, Bie17, CXZ19, CK16, Chr18, Col16, DA19, DLM16a, EJJ15, ERPD18, HH18d, KL15, KKK16, LC17a, LLSZ17, LZ17b, LM17a, MMO15, MN19a, Men17, MIT15a, Moh19, NS16, NSM16, NXLX18, PMN19, PPM16, Pis17, RW16, RT18a, RMK19, SK15, TF18, WR16, WCS18, WZ18, XYZ15, YZW15, YCX19, ZLS+15, Zha18, ZCS+19]. **Singularities** [Gor16, ACDT15, AT17, CL19a, Kan18, Wan18b, WCLL18]. **singularity** [HS18b, RR18, ZG19b]. **singularly** [AS18, AZ18, BR15a, BZ16a, CLX17, CW16b, CGSS17, CJ18, CJ19, Das15, DVA19, ESSE18, EC18, GO15, GO17, KAA16, KK15, Lin16, LC15b, LC17b, LLHO18, LM17b, MTV17, OP19, PCSR19, Qui15, RC19, SAA18, SR16c, YAA19, ZC18]. **SIP** [vSV15]. **SIR** [WSL17]. **sites** [LWXF18]. **siting** [FLMS16]. **Sitter** [TN19]. **situ** [AAB18a]. **Sivashinsky** [ID18, MFWK18]. **six** [MA16]. **sixteenth** [BAMM19, MBM17]. **sixteenth-order** [MBM17]. **sixth** [CT17b, GKM18, HMT15]. **sixth-order** [CT17b, GKM18]. **size** [ABL+19, ALMLM16, CMRP17, MV16a, NZL17, Prz19, SV16a, Wan18h]. **size-structured** [ALMLM16]. **sizes** [FY18, NCF+19]. **sizing** [SGK16]. **Skeletal** [CDE18]. **Skew** [HMKCR19, WSW15, CGMM18, LLW17, LS18b, NL17, SWL15]. **Skew-Reflected-Gompertz** [HMKCR19]. **skew-symmetric** [CGMM18, LS18b]. **skewness** [BOF+16]. **skinning** [LCC+15]. **slabs** [NGGA+18]. **sliding** [DD16b]. **slip** [JLCZ17]. **slit** [DB15]. **Slow** [RKV19, YBC+16]. **slow-release** [YBC+16]. **Slow-scale** [RKV19]. **Smale** [GMW18]. **Small** [WP16a, DVA19, LS18a, NZL17, Sey18]. **Small-sample** [WP16a]. **smaller** [NS16]. **Smallest** [Chr19, Chr18]. **SMART** [CPRS19]. **Smooth** [TXFH18, YY16, BCFN16, GLR16, GKN16, HWT15, KV18a, LYG15, MTV17, MOY18, NR15, Zag18, Zak19]. **Smooth-threshold** [YY16, LYG15]. **Smoothing** [GKLS18, PTV17, AHM18, Fan15, PBMJC18, PBJCM19, WYW15, YS19]. **smoothly** [VRBS19]. **Smoothness** [DS15b, KP15, LRKV16]. **Smoothness-Increasing** [LRKV16]. **SMRPI** [FSNS16]. **snapshots** [KVO18, WMI16]. **Sneyd** [iW16]. **Sobolev** [BGMS16, BS17b, FMP+15, GCZ17, KB16, LLG19, MMMMB16, Mir16, MB15b]. **Sobolev-type** [BS17b]. **Soccer** [PW15b]. **social** [Ogu17, SCMS18]. **soft** [JCC15, JMN+16, ZM15a]. **soil** [dAFvdMR19]. **solely** [Slo15]. **solid** [SM15b, Zha19b]. **solid-state** [Zha19b]. **solidification** [ID18]. **solids** [ADG19]. **Solitary** [HA18, MM18]. **solitons** [CZ15]. **soluble** [BV16a]. **solute** [TNTL18]. **Solution** [Beh16, BGL17, BS19, MS19a, AVB17, AHT18, AKR18, AS18, Aks17, AT17, AK15, AFGT18, AD18, BM17a, BM18, BBD16, BJK15, BT17, BK15b, BFLP15, Baz15, BFMP19, BS15, Bot16, BGS19, CCNQ+16, CL19a, CV19, CEJ16,

CGvA+15, CJV17, DP16, DDR19, DdSL16, DAM15a, DA19, Dia18, DMS19, EHTL19, FM19a, GMG19, GHB17, GAA16, GO15, GLSW16, HZ18a, HVV15, HK19, HR15, HSAR18, HKAR18, HH16, HMDSR19, IN16, JSL15, KVO18, KT15, LXW19, LY15b, LaTG17, LS18a, LZRH19, MDVM17, MHAA15, MMS19, MLJ16, MK17, Mer19, MKKV19, MH16a, MA18, MAS19, MV16c, Miy19, MTKO17, Mok15, Mud19, MTS17, NN18a, Nem15, NDH16, NXLX18, OP19, PD17, PPM16, PA19, Prz19, ROB17, RW16, SE16, SAC17, SLH18, SR16b, SDH17]. **solution** [SEÖ16, SS18c, SLA19, SVAKGR19a, SVAKGR19b, TJB17, TV16b, VF17, VM15, XHZ17, XF16, YCX19, yZLX15, dBGMUA18]. **Solutions** [NT15, SC18, AAA15, ÁD17, AS19b, AHL17, AAC17, BM17b, BBB17c, Bie17, Bog16, BCMP16, BHMT16, CLS18, CRGB17, CCNQ+17, CRCM16, CLX17, CPB19, CXW19, CDRY18, CK16, Col16, CD15, DJC15, Das18, DD16b, DWXO15, Dzh18, FFP16, FLN16, GH19b, GLSW18, GR19, GL19, HP17, HA18, Hua19, KFT17, KDB17, Kha17, KLS19, Kre19, LDDF18, LY15a, La19, LRKV16, LLSZ17, LZY15, LSXL19, LNP17, MDG17a, MDGVR17, MDVR19, MVM19, MYM16, MM18, MT17b, MPH18, Mel19, MMZ19, Mil16, MSH18, Miy15, Miy17, MJS19, NSW15, PS15, PCJ18a, Pis15, RCBG19, Ros17, SR16a, SWL15, SLA19, SVAKGR19a, SZ18, SLW17, TMS+17, TLFC18, TLE19, VDT19, Wan17b, WG18, Wu19, XYZ15, YHZ18, Yao18, YFS18, Zak19, ZSL15, ZLZ17, Zha18, ZJ19, ZG19b]. **solvabilities** [LaT15]. **Solvability** [AB18a, CS17, DHAM17, HND18, CLM19]. **solvable** [CNT17]. **solve** [ACDT19, DFT18, Dzh16, Haj19, HSAR18, HKAR18, KGES19, KDW17b, KDW17a, KMLB17, LLV18b, ME18, MII16, NAM18, PB15, PLP17, RM17, VFFGV16]. **solver** [AEKGP19, Che19b, FNV17, HM16, HMMV17, LLZ16, MT17a, Ngo19b, RTV15, VS15b]. **solvers** [BO18, BV18, lCCVV18, GGC15, KR18, SVW19, YPD16, ZS17b]. **Solving** [AHM18, BCVV18, CCJ16, CCJ18, CHS17, CJ18, CNQR+18, FCJ16, GUB+17, Goć15, HS17b, HIS16, JBT16, JD16, KV19a, KMV16, PRP19, PBS15, SY19, UGG+19, ZCD17, AA18, ATG18, ACDT18, BJM16, BH17a, BMM17, BSGM19, BG17, BLM16, Bog15, CLZS19, CP18, CMQT16, CJSCT18, Cou19, DSA15, DAM15b, DK16, DSZ15, Dzh18, Elg19, EE16, FLZ19, FR18b, GYS17, GHZ+15, GHC16, GHY+18, HWH19a, HNT19, HWH19b, HWXC19a, HWXC19b, IIA15, JHJB17, JS17, KS17a, Kau16, KMB15, KKP+19, LRT17, LDL+19, LHY19, Lin16, LC18, LZ16c, LZZL17, Liu17, LHPZ18, LDW18, LF18, LM17b, LM18, MD19, MP15, MV16a, MH16b, MS17c, MAS19, MC18, MT17c, Mol15, NE17, NBAK19, NS19, NN18b, NN19, OAN17, PGD+18, Pul17, RVA15, RMVA17, Reu16b, Reu17, RT18a, SAA18, Sar19, SB18, SJ18, SQRE16]. **solving** [SK15, SRH17, SVV18, TBR16, TZZ18, TP19, VARC17, WWZZ16, WZZ16, WR16, WKBB17, WA17, WLM16, XY16, YGS18, YHZ18, YB17, ZL18a, ZHWS16, ZWT19, ZL15b]. **Some** [AA16, BRS15, CHS15, CGN18, DZM16, FLJT18, FZW19, GAB17, KMB15, KCNH16, LXL16, LLV18a, LJX17, MDVR19, MBM17, MT15, MII16, QCSG18, SKC+19, ÁD17, Baz15, BK19d, Ceb17, EG17, FH16, FH18, GUB15, KB16, LQZ16, Li18, LSS19, LPT17, LL17, MDG17b, MVM19, NH19, NN19, RABB19, RFO17, SY18, SVAKGR19b, SK16, SM15b, TAT18, TPC17, Yos17, ZDF+17, dR16]. **SOR** [HWXC19b, GxLlW15, HWXC19a, MSZ18]. **SOR-like** [GxLlW15]. **SOR-type** [MSZ18]. **sound** [AO18, GH19a, SODBK19, ZM15a]. **sound-hard** [GH19a]. **source** [AS19b, AR19, CCW17, CS18b, GS15d, JAN17b, LWC17, Liu17, PP16, PCSR19,

SS19b, Slo15, THL+17]. **sources** [BHU18, LXZ17, WSG+19]. **SP** [VFGPG+18]. **Space** [AM15b, SGL17, AAA15, ADG19, ALC19, ADD+16, AK19, AP18, BJM16, Bac18, BBCK19, BAAA+15, BVZ17, BPD15a, BCMP16, BMLR15, Bou18, CL18a, CJLT15, CLA19, CRG19, CDKN14, CDKN15, DA19, Din16, DLM16b, DK16, FH16, GZD+19, GG15, HA18, JW17, KV19b, EP18, Lee18, LHJ16, LLY19, LFWC19, LSP18, MPS19, MV16a, MGMDGVR17, MKKV19, RWW17, RZ19a, SAA18, Sai19, SWZW15, TYS17, THL+17, UPD+15, WGHR17, XDY16, Yao16, ZYL19, ZZG+19]. **space-** [BBCK19]. **space-dependent** [CL18a, LHJ16]. **space-filling** [MPS19]. **space-fractional** [AK19, Bou18, CJLT15, KV19b, LLY19, LFWC19, SWZW15, TYS17]. **Space-time** [SGL17, ADG19, BVZ17, FH16, GZD+19, GG15, LSP18, ZYL19]. **Spaces** [BR16, AA16, ABH19, AMB19, ABEHV16, BH17a, BGMS16, BKLR15, BHRR18, BLMS19, CDF+16, lCCVV18, CHVRT15, CDHP17, DHAM17, DKLP15, FZW19, Fer15, God15, HKAR18, HSS19, KV18a, KGMS18, KS17c, MOY18, MP18, MP17a, dHKdHMM15, RMMRC15, Sak17, WWH19, XHZ17, ZDLD15, ZWL18]. **spacetime** [TN19]. **SPAI** [JK19]. **Spain** [NGGFM17]. **spamming** [SvG15]. **span** [AALMLM18]. **spanning** [HLLS18]. **Sparse** [XH15, YWW19, Bai15, BZ16b, JK19, KC19, PW17, SRBD18, WP16b, YP17, ZS17b]. **sparse-grid** [SRBD18]. **Spatial** [BDF15, CZ15, GFPGF19, MB15a, PP16, SM19a]. **spatial-stepping** [GFPGF19]. **spatially** [Abd18, Wol17]. **spatio** [Abd18]. **spatio-temporal** [Abd18]. **Spatiotemporal** [NY19]. **Special** [DLY18, VAMDGR19, BCFN16, HHKR15, HIS16, MT18, NN18a, UPD+15]. **specializations** [SS16b]. **species** [CSE+19, SR16b, SRA+15, Wan18h]. **specific** [HWH19b]. **Specifying** [KElY16]. **Spectral** [BFMP19, CLC16, HCC18, LWL17, LV16b, RCN17, Vis15, WNML16, YTSZ15, vD15, AK19, AdGvG19, CW16b, Che19b, CY15, CN16, DNL15, DNL16, EE16, FSNS16, HNT19, HW17, JWQ18, KT15, Lee18, LL16b, LMW18, LLHO18, MN17, MN19a, MS17e, Moh19, NH19, SS16a, SR16b, SB18, SWL15, SNY19, SJ17, SJ18, Su16, TJB17, WW16b, WCS18, XDY16, YHZ18, YJBM19, Zak19, yZ17, ZHC19, ZYL19, dFG17]. **Spectrally** [DYD19, CCY18, YC19]. **spectroscopy** [HHS+15]. **spectrum** [HLLS18, PGRC18a]. **speed** [ID16]. **SPH** [VRBS19]. **Sphere** [Cro15, AS19b, DLW16a, MF16, PC18b]. **spherical** [BL18, BDF15, Cro15, HL18b, Kaz18, VX19, WLZS18]. **Spiral** [DWS+18, CC15]. **spirals** [AV16, LAHB15]. **Spirulina** [NGGFM16]. **Spline** [DDR19, HHZ18, AZ18, BGII15a, BGII15b, BI17, BIJM+19, BLMS19, CFSS18a, Che18, DIS+18, ELL+19, FWW+18, GK18b, Guo18, KV18a, KPT15, Kre19, KB16, LAHB15, LCC+15, LLG+18, LFWC19, LM17b, LZ19, Maz18, PTV17, SST15, SYT16, TXFH18, XMW+15, YW15a, ZDLD15, ZTGZ18, ZWL18, ZD19]. **spline-based** [BGII15b]. **Splines** [HH15, AHBC15, BL18, BIR17a, BDIR19b, BC16, BAHC17, Bej16, BR16, BCDwK17, BDGO15, DS15b, FJ19, GS18a, GH17a, GKPS19, GK18b, Han15, KPRA19, RdV19, SuSR16, SM15a, US19, QDY+19]. **split** [AH15, BK19a, DMMSK17, DTKP17, GK18b, IÇ18, LSL17, LSL18, RKV19, SST15]. **split-drift** [AH15]. **split-step** [IÇ18, LSL17, LSL18, RKV19]. **splits** [GK19a]. **Splitting** [MV18, AMRX17, AMP18, AMCR19, AHKT15, BH17a, Bad18, BPP17, COP17, CLW17, CM18a, CJ18, DBdLdM+19, DGH15, EAKS18, FFKP17, GHM17, GXZ15, Güc17, HOS16, HS17c, HH18c, HCC18, KV15, Lee18, LY18,

LLV18b, LK18, MP17a, MV16b, OOO15, RCN17, SEÖ16, SZ16, SX18, WNML16, WL19a, WHS17, WL16, WL17b, ZZLY16, ZS18b, ZZZ15, ZM16b, ZL17b, ZL17c]. **splittings** [AK17c]. **spray** [SRRJ16]. **Spurious** [DJC15]. **SQP** [HP15]. **square** [ABT17, AH16a, BCVV18, CCJ18, CJV17, DB15, GQM16, JMN+16, LZ16b, LDZ18, LLG+18, TW17, WA17, Zho16, ZWH15a]. **squared** [SJL16b]. **squares** [AHMY19, AS18, CQW16, CQ17, CSXY19, DF15, DDM15, DM17a, Dia18, DLM16b, HLV+15, HMT+17, HHS+15, JL16a, JL17, Ku16, LC15a, LHK19, Lin16, LWJ15, Mir15, MJS19, Nie15, PLP17, SY19, WS18, XCG19, YW16, Yua15, ZPL17, ZPL18, dBGMUA18]. **Srivastava** [DP19b]. **SSP** [Son16]. **stabilities** [JS19b]. **Stability** [CCTV17, CMQT16, CMTV17, DLW16a, KJ19, LD19a, LD19b, LSZ16, LWTQ17, Mar19b, MP18, Ngo19b, OM17a, Par15, SBU+17, SFH+16, Sha15, US19, VDT19, WAGVRB19, vtWvdHvdVV16, YYL15, You19, Zha16, ZQJY18, ZWWW19, ZDF+17, AH16a, AYSE19, APS17b, AJ17, BYYV16, CW15a, CEJ18, CWH18, DIJ16, FE16, GM16b, GQM16, Guo17, GL19, HPW16, HLM18, IJ18, JKL+15, KRR18, LY15a, Lan18, LXW19, LJ15, LL15, LZ16b, LWS16, LDZ18, LPT17, LSL17, LSL18, MYM16, MM15a, Mil15, MFWK18, Ngo19a, TLLL19, Xia17, YL19a, ZSL15, ZLF18, ZWH15a, ZWX18]. **Stabilization** [Arm18, PBGG17, JKL+15, LSD15]. **stabilize** [GPHAPR17]. **Stabilized** [Pol16, XZ19, BS16, BBC17, DD18b, JLCZ17, LLCG16, LFKG16, MVK19, QM15, TV18, SAT15]. **stabilizing** [HP17, Miy17]. **Stable** [Che16a, CL15, EBJS19, KYS16, ZM16a, Abd16, ABT17, ARTY19, BK15b, BK16, CJLT15, CZ17b, CFWW19, CSTU17, CGT18, DMP19, DXZ18, HZ17a, KSR15, KS16, LLZ16, LHY19, NC19, NCPD19, PCJ18a, RdSMO17, RdSMO18, SEV+18, SW17a, SVAKGR19a, SVAKGR19b, WD19, YZH18, YBD16, ZL18a, ZL18b, ZWL18]. **Stackelberg** [AVGCMVM15]. **stages** [LSW19]. **Staggered** [CY15, GDCK19, KCX17, ZP19]. **Staggered-grid** [CY15]. **standard** [CP16, GPHAPR17, KW16, LA15b, MVQDdR+18]. **standby** [FOK15]. **star** [HPT19, WHWY18]. **star-shaped** [WHWY18]. **STARR** [GSM19]. **Starting** [EHVM18, AEHVM18, ZS17a]. **State** [LSS19, AG18, BGNGR+17, BCMP16, BySZ19, DLM16b, GC15, EP18, KLS19, KS16, LZA19, LSBL18a, QDBG18, RNM16, SYD15, UPD+15, YT16, Zha19b]. **state-constrained** [BySZ19]. **state-dependent** [LZA19, YT16]. **state-space** [BCMP16, UPD+15]. **States** [LPW+19, SFH+16, Sha15]. **static** [AG18, CMHHS17, CDD+15, LQ19]. **stationary** [ABRS17, AS19a, BYYV16, CJCDLL19, CCIL18, JY19, LGYC19, LM15, SuSR16, uIZ15, TZZ18, WWZZ16, ZL19]. **statistic** [Mar19a]. **Statistical** [HG19, PD19, VF17, ZSW16, ZG19a, LO19, RDRM15, WP16a, YW16, ZNS18, ZX16]. **statistics** [BE15, CJP17, DD18a, DG16b, JGAFAL19, LWZ19a]. **status** [KElY16]. **steady** [BGNGR+17, BKN16, CDW15, CHS15, CHS17, GC15, LW15, LW17b, LZ16a, QDBG18, RNM16, SFH+16]. **steady-state** [GC15, RNM16]. **steel** [CS17, NGGA+18]. **steepest** [EJJ16, GS18b]. **steered** [ZF15]. **Stefan** [Mit15b, MV16c, RVC19, VM15]. **Steffensen** [ABEHV16, HVM18, NBAK19]. **Stein** [LH19]. **Stein-conjugate** [LH19]. **Steklov** [AC17b, DIJ16, DIJ17, HM16]. **Step** [ASKG18, YMGA19, ABHVM16, AAB+18b, AZ17, AK16, AHK19, BKK18, DDG+16, FYY17, FR18b, GXZ15, GGW16, IÇ18, KMRS16, KW18, LWDW18, LSZB17, LSL17, LSL18, MVQDdR+18, MV16a, NS18, PS15, Prz19, RMVA17, RKV19, SW17a,

SVAKGR19a, SVAKGR19b, SV16a, SV16b, WXZ19, WKBB17, WHS17, WZ16, ZJG+15, ZSW16, ZHH+19]. **step-size** [Prz19, SV16a]. **step-stress** [LSZB17, ZSW16]. **stepping** [CM16, Con18, GFPGF19, GM17b, vV16]. **steps** [ABEHV16, AR15a, AR16, HWXC19a, HWXC19b]. **stepsize** [KW18]. **stepsizes** [LL18]. **Stewartson** [Gru16, Mus17]. **stiction** [HWP+15]. **Stiefel** [DLHY15, KMLB17]. **Stieltjes** [MVPN15, QG17]. **stiff** [AFH16, Abd16, AHP19, AH15, HHR16, HOS16, KMV16, KW18, MG15a, MD19, Ran15, RKV19, SW17b, WKBB17]. **stiffness** [CKL18]. **Stirling** [AMB19]. **Stirling-like** [AMB19]. **Stochastic** [AYSE19, GD16, ML16, SW17c, ZZHS17, dMPF15, AH16a, Akh19, AH15, ABP15, AK17a, BJ16, BYW18, BZ19a, BS17b, BHRR18, BH17b, CPB19, CW15a, CZLV17, CPZ19, CPOG18, DBX19, DFLM19, DIJ16, DV16, DI15, DM17b, DP19c, EPC17, FL16, GH16a, GVMR19, GQM16, GWY17, GLMY18, GL19, GB18, HHR16, HYF18, HMD19, HWZ18a, HWT15, HZ18b, HT18, HLM18, Hui16, IÇ18, JC19, JY17, JC15, JMS17, KB17, KRR18, KHLY17, KEB19, KK17, Lan18, LX18, LXW19, LW19a, LWXF18, LHM16, LYG17, LM15, LZ16b, LDW17, LM17a, LDZ18, LZX19, LSL17, LSL18, MTCC15, MDVM17, Mao15, MYM16, Mao16, MS15a, Mil15, Mil16, MT16b, MH16b, MSH18, MAS19, NH19, OM17a, OLPT16, PX17, RP17, RKV19, RZ19b, SLH18, SCMS18, ST16b, SSCM18, SCG18, Sun16, TJB17, WS19, XY15, Yam17, YZJC15, YL19a]. **stochastic** [YZZL19, ZF15, ZqZwZ15, ZS17a, ZSL18, ZJ17b, ZJ19, ZL15c, ZEBM17, ZWH15a, ZWX18, dFG19]. **stochastically** [Sha15]. **stock** [ID16, RdSMO17, RdSMO18, ZS17c]. **Stokes** [ACLY19, AB18a, AFN17, BBGG19, BAK18, CJCDLL19, CDW15, CGPR17, CHS15, CZ17b, CHS17, Chi17, CK16, CVW17, Cou19, DD18b, ERR18, GM17b, GGC15, GGRN17, HK19, HS18c, HM19a, HMY19, JM15, JLCZ17, KYS16, KLC17, KtTBK18, KK19c, LC15a, LZC15, LA15c, LLCG16, LGLC18, LGYC19, LSYY19, LZ16a, LHM16, LLC18, LW19c, MT16b, MV16b, MV18, MWY15b, Ngo19a, Ngo19b, QM15, RR18, SSG16, Sun19, TZZ18, WWZZ16, ZZZ18, ZL18b, ZL19, ZH15]. **Stokes-like** [KLC17]. **Stokes/Darcy** [Chi17]. **Stokes/elliptic** [Sun19]. **stopping** [MDVM17]. **strain** [FMMQ19, FCM19, Lu15c]. **strain-limiting** [FCM19]. **Strang** [CR17, GHZ+15, Güc17]. **Strang-type** [GHZ+15]. **strategies** [APS19b, AVGCMVM15, CDD+15, CFSS18b, CW15b, DKV16, DSN17, NC16, PZ18, QDG+15, SSKV17, WLLC18, WRZ18]. **strategy** [ASV17, CD16b, CSB18, DYD19, LRZ15, Mud19, NML18, SWZW15, SV16a, SL18, WP17, YL19b, ZC19]. **stratified** [LXZ17, LXZ18]. **Stratonovich** [AK17a, MH16a, MS17c]. **stream** [MV16b]. **streaming** [MAK19]. **strength** [BSLL18, BSLL19, ET15, GUB15, LSBL18a, LSBL18b]. **Stress** [ET15, LSBL18a, LSBL18b, BSLL18, BSLL19, DB15, LSZB17, MV18, Wan18c, Wan18d, YZPL18, ZSW16]. **Stress-strength** [LSBL18a, LSBL18b, BSLL18, BSLL19]. **stressed** [JL19a]. **stresses** [QWZ16]. **stretched** [AHBC15]. **strict** [DTKP17]. **strictly** [APS15a, APS15b, APS17b, APS17a, APS19a, APS19b, MM19]. **strike** [JHK17]. **strip** [BBPR15]. **stroke** [CNQRR17]. **Strong** [DIJ17, HK07, HPW16, IJ18, LX18, LW19a, LYG17, TGJ19, ZSL18, ZJ17b, BYYV16, HHR16, HM19b, JJ19, MVPN15, ZZHS17]. **strongly** [BK19b, BK19d, CW17, KRR18, LC17b, RMK19, TH18]. **Structural** [GR16, Lu18, MX16, ZN19, JA17, Yua15]. **Structure** [BMLR15, GLZ18, ÁAM15, BBB17c, BWS17, DY15, HOS16, JWZC18,

LY15b, LWZZ16, LZA19, MDAP19, MTMZ19, SZM+18, SH15, Yos17]. **structure-aware** [SZM+18]. **Structure-preserving** [GLZ18, BWS17, JWZC18, LWZZ16, MDAP19, Yos17]. **Structured** [DWQ16, Li18, ALMLM16, BLXD18, BDG15, DZ18, FV17, Hua19, JZ18, NR19, SS18d, ZYL19, yZyMxG+16]. **structures** [ALS19, BN19, CCZZ16, GZH19, TLL16, XCG19]. **Struve** [KK19a]. **student** [GR16]. **studies** [ABL+19, Nke18b]. **Study** [ALMLM16, BCT16, VX19, AM16, AAB+18b, AFdOdS15, BDA17, BOF+16, BKN16, BHMT16, CCNQ+16, CFSS18b, CN18, Col16, CMQT16, FNdO15, GGG19, GKM18, GJ17, JS19b, KLM17, KAM16b, KV17, KLS19, KPS17, LLSZ17, LMS17, LLSM15, Mus17, OLRPdCJ19, OGR17a, LGB18, SJRR17, SD15]. **Studying** [NC16, ARCA+19]. **Sturm** [CKB17, MR19]. **sub** [AB18a, BMLR15, CCW17, HY19a]. **sub-Cauchy** [AB18a]. **sub-diffusion** [CCW17]. **sub-networks** [BMLR15]. **subdifferential** [HND18]. **subdiffusion** [DAM15a, SJ18]. **subdividing** [BMLR15]. **subdivision** [ABRS17, ARTY19, CM19b, CH19c, CDHP17, CPRS19, DM16a, DXML19, DY19, DS17b, GZDC19, GMdV19, JY19, KBL19, MS17b, MB15a, NR15, RS19, SuSR16, ZCS+19, ZMTT19]. **subdomains** [Vab18]. **subject** [HZ17c]. **subjected** [BO16]. **Submatrix** [XCG19]. **submerged** [FdGKZ17]. **Subordination** [BB18]. **subproblem** [JGTB15, QC18]. **subsampled** [Mar18]. **subsonic** [Su18]. **subspace** [ABG17, Bai15, Bot16, GG17a, HSS19, KC19, KBG17, Mia18, vSV15]. **subspace-based** [ABG17]. **subspaces** [FwC17]. **substantial** [HCL17]. **substitute** [PW15b]. **substitution** [Reu16a]. **substochastic** [BB16]. **subsurface** [CSS19, JO17]. **successful** [NGGFM16]. **successive** [AKR18, EK19, FGF19, QWS15, US19]. **successive-projection** [US19]. **sufficient** [DLHY15]. **Sugiura** [PI19]. **suitable** [WZS18a]. **sum** [CQW16, NL17, NC19]. **sum-of-squares** [CQW16]. **Summation** [ZF15, LWS16, RT18b]. **sums** [DSA16, JN19, OLPT16]. **Sumudu** [BS17a]. **Sundman** [LOAGBR15]. **sup** [LT18]. **super** [AW19b, CDD+15]. **super-convergent** [AW19b]. **super-replicating** [CDD+15]. **superconductors** [VS15a]. **Superconvergence** [Bac18, BW19, HC15, JM15, MN17, MN19a, MHL16, NSYX17, WL19b, XH19, YP18, LYG17, ZC18]. **Superconvergent** [SST15, AST19, DT17]. **Superlinear** [AKM18, ZC16a]. **superlinearly** [JGTB15, ZJ19]. **SUPG** [Jeo15]. **supply** [IABIPG17, IAMCI18]. **support** [MLS15, RRW17, WS18]. **supported** [HW18a, Man15, MM15b]. **supraconvergence** [KD17]. **sure** [CW15a, LWZ19a, Mil15, Tan18]. **Surface** [LCC+15, YLZG18, AN17a, AN19, AS19b, BOF+16, BKN16, Cou19, LXD+18, LLG+18, Rät15, RTV15, YW15a, YW15b, ZM15a]. **surfaces** [AH16b, DD16b, HH15, HJS19, HLMS19, JSC18, KP19, KPRA19, LZ18a, Rót15, SAT15, VL15, WZZ18, YZ15a]. **surfactants** [BV16a]. **surrogates** [NRV18]. **Survey** [JSC18, ABN+18, BCCB15]. **survival** [AALMLM18, ABP15, GH17b, GUB15, LSBL18a, LSBL18b]. **SV** [dFG19]. **SVM** [NGGFM16, NGGFM17, OLRPdCJ19]. **SVM-based** [NGGFM16, NGGFM17]. **SVR** [XF16]. **swaps** [CP15, DT17, ZL15c]. **swarm** [XqYL+15, XY18a, XY18b]. **sweep** [WL16]. **Swift** [SEV+18]. **switched** [GGBTP17, PBGG17]. **switching** [CXW19, DF16b, DT17, JQWW16, KKW16, KV17, LY15a, LZ17a, MZ16, OM17a, RP16a, WW19b, YYL15, ZS17c]. **Sylvester** [CL18b, OSMZ18, PS18]. **symbol** [GMdV19]. **Symbolic** [SS16b, JSL15, MR19, PN16]. **Symmetric**

[BW16, LWDW18, NAH18, SZ18, Ais17a, Bej16, BBG+19a, CGMM18, CM18a, HMKCR19, HY19a, HJ17b, HQ18, HWXC19a, HWXC19b, LLL19b, LS18b, LF18, LM18, PS18, Pap16b, RWW17, WZL17, WCW18, WL17b, XCG19, YLL15, dBAAA15]. **symmetrical** [MII16]. **symmetrically** [AHBC15]. **Symmetries** [ALV19, CRGB17, CRG19, GKBG17, HJS19, LSXL19, RCBG17, RCBG19, RM19, SR15]. **symmetrization** [MP18]. **Symmetrized** [AHK19]. **symmetry** [BS18, MII16, VX19, YX19, ZYF19]. **Symplectic** [BBPS17, BBC+18, BBCK19, LSW19, Moo17, NHA17, SW17c, ZZHS17]. **Synchronization** [SZZ+16, AY19, APYW19, LWTQ17, TJSW19]. **Synge** [KKV19]. **synthesis** [HHKR15]. **synthetic** [OG16]. **system** [Abd18, AJ18, AKM18, BCFN16, BO16, CJCDLL19, CQ17, CLW17, CSE+19, DHAM17, DVA19, DMMSK17, DG16a, DAAF16, ET19, Ery19, EHTL19, GUB15, HK19, HHLS18, HMMV17, HSAR18, HS17b, JGTB15, Kam17, Kav16, KBT15, Ku16, KTT16, LP15a, LaTG17, La19, LDZ17, LC15b, LC17b, LCX18, LSBL18a, LSBL18b, MT16a, MM17, MS17c, MAS19, MV16d, Mus17, Pis17, RIK16, RC19, Ros17, RFLM16, SFH+16, Sha15, SS18c, Su18, Sun16, SW17d, VG17, WZBM18, bWzZjH16, WL17b, XGH18, XY19, Yan17, ZZG+19, ZS17b, ZZ18]. **Systems** [DLY18, AH16a, ABB17, ABG17, AL19a, ADMV19, AGR15a, ÁD17, AR16, ATG18, AH15, ACDT18, ACDT19, AAKW16, Bai15, BBB17c, BPP17, BJK19, BL17, BGL17, BK15c, BK16, Bie17, BZ16b, CCIL18, CGMM18, CZ15, CDH+17, CM18a, CJ18, CJ19, CWH18, CJSCT18, DP16, DMM18, DSN17, DLM16b, DSZ15, DFS15, ERPD18, FE16, FM18b, FPGK19, FOK15, GDM16, GLR16, GGBTP17, GGG19, GH19b, GRS19, GLV15, Goć15, GM17a, GLSW18, GW19, GHC16, GHY+18, GxLlW15, HHR16, HMDSR19, HZ19, Hua19, HWXC19a, HWXC19b, HMT15, HKZZ15, IABIPG17, IIA15, JSL15, JK19, Kad17, KKS16, KDW17a, KVO18, KR18, LDDF18, LD19a, LD19b, LLT16, LXD+18, LHZ15, Liu16, LSZB17, LLV18b, LK18, MDT16, MO18a, MO18b, MP18, MP17a, MS15a, MLJ16, Miy15, MSZ18, MT17c, NBAK19, Nat19, NZL17, OGR17b, PDB15]. **systems** [PBGG17, Pul17, RM17, RWW17, REBF16, Rät15, RKV19, RFO17, RFLM16, SS16c, SW17b, SM16, SV16b, SW17c, TV18, WZL17, WLZ17, WW19a, WYLD19, WS19, WXZ19, WA17, Xu15, Yam19, ZZ19, yZLX15, ZZZ15, ZWWW19, xZWlC15, ZZHS17, ZJ19, ZZ15, ZJK16, dBGMUA18, dFLM18, vSV15]. **Szász** [CGN18]. **Szego** [CBMPP15, JRT17].

T [OSMZ18, ZWWW19]. **T-congruence** [OSMZ18]. **T-S** [ZWWW19]. **Tabu** [SQRE16]. **tailed** [Che19a, FF15]. **Takagi** [WCW18]. **taking** [SS18b]. **Talenti** [NW19]. **Tamed** [JY17]. **tangent** [Han19]. **tangential** [BJK19, DD16c, QC18]. **tapered** [ZM15a]. **target** [KK17]. **tau** [RKV19, GMG19, GAA16, MC18, Pis17]. **Tau-collocation** [GAA16]. **tau-leap** [RKV19]. **Taylor** [AH16a, CZ19a, HMD19, SIAJ+19, ZJG+15]. **Taylor-type** [ZJG+15]. **TB** [MLV16]. **Tchebycheffian** [BLMS19]. **technical** [CNQRR17]. **technique** [ABT17, ACAC17, CVW17, DAM15b, DA19, Els15, GTC16, GMCD15, GVHMR17, GdLT17, HHEG17, HWZ18b, ID18, IGRL17, Jeb19, LC18, RL18, SLH18, SBP17, US19, Wan18f]. **techniques** [AA18, CCNQ+16, FLJT18, FFKP17, GG17a, GGC15, Hac18, HWH19b, NGGA+18, NGGL+19]. **Technology** [DNY17]. **telecommunications** [ASV17]. **telegraph** [CJLT15, HWH19a]. **teleoperation** [ERPD18]. **temperature** [CL18a, DSOBK16, OZ17]. **temperature-dependent** [OZ17].

tempered [AM19]. **Template** [FJ19, BRW16]. **Temporal** [AEK19, DLM17, MVM19, Abd18, FR18a, OGR17a, LGB18]. **temporally** [KV19b]. **tension** [AN17a, AN19, AZ18, Cou19]. **tensor** [AL18, BW16, CS18a, CHYZ19, CSXY19, DFS15, GH19b, HS18a, HFMM16, LZL16, LSH18a, LLV18a, LDG19, LLL19b, LLV18b, LM18, SNY19, XH15, ZW16]. **tensors** [CQW17, CQW16, CS19, HQ18, HM19b, KLL18, TPC17, WCW18]. **term** [AÖ17, BGNGR+17, BB18, CCW17, CLC18b, CLA19, CS18b, CRG19, DSA15, FLJT18, HHOT17, HLZ19, KV17, LNP17, MRS17, NV19, PCSR19, QLT+17, SLA19, WCW15b, WXJ19, YN18, ZH18, iW16]. **terminal** [FMR15, Zak19]. **termination** [WZS19, WS16]. **terms** [APYW19, IÇ18, JAN17b, YFwC19, YZ15c]. **ternary** [SuSR16, ZMTT19]. **Territorial** [HEA18]. **test** [FPGK19, Mar19a, OV17, SMTdF18, Wan18c, ZP16, BCT16]. **testing** [Che19a, JGAFAL19, Mar19a, Rom18, SM19b, WL17c, YZPL18]. **tests** [AFBJGJ17, CDN19, GSVSM16, LO19, LSZB17, ZSW16]. **tetrahedral** [BIR17a]. **tetrahedron** [MB15a]. **tetrahedron-based** [MB15a]. **textiles** [GDC15b, GMCD15]. **texture** [BOF+16]. **TFPL** [SVAKGR19a]. **th** [BBCP16, Miy18, RM19, Zha18]. **th-order** [RM19]. **THB** [FJ19]. **THB-splines** [FJ19]. **THBox** [GKPS19]. **THBox-splines** [GKPS19]. **their** [AGR15a, DWQ16, Dzh18, GKN18, GT17, Hai17, HH18a, IAAW18, KSR15, KCNH16, LKN17, MPH18, MA19b, QL18, ST16a, SvG15, VL15, WSW15, YZZL19, YMGA19]. **them** [MII16]. **theorem** [CT16, CDH+17, Ou18]. **theorems** [GL19, dHKdHMM15, RMMRC15]. **Theoretical** [Nke18b, ZP16]. **theories** [LOAGBR15, OGR19]. **Theory** [BCJV18, GAA19, GAA21, ACCF19, AH16c, BL17, FMMQ19, GX17, JSC18, MLV16, Mär17, OH18, OGR17b, Ros19, SV16a, Tho16, YX19]. **thermal** [KV19b, QDBG18]. **thermally** [JL19a]. **thermo** [DCNY18]. **thermo-mechanical** [DCNY18]. **thermocapillary** [JL19b]. **thermodynamic** [RANG15]. **thermodynamically** [CSE+19]. **thermodynamically-consistent** [CSE+19]. **thermoelastic** [Sai16]. **thermoelasticity** [FMMQ19]. **thermoviscoelastic** [ACCF19]. **Theta** [ZWH15b, LZ16b, LDZ18, LSL17, LSL18, ZWH15a, ZWX18]. **theta-Milstein** [ZWX18]. **thin** [AN17a, AN19, Bej16, BBPR15, ZFK18]. **Third** [ACMT17a, WZS18a, AZ18, ATV15, CW16b, DT18, GGBTP17, WKBB17, ZHC19]. **third-** [WKBB17]. **Third-degree** [ACMT17a]. **third-order** [AZ18, CW16b, GGBTP17]. **Thomas** [JSL15, LZ15, PD17]. **Three** [AR16, ADD+16, AHS19, BI17, BDIR19a, CJP17, CTZK18, GH19a, GRVC15, GC17, GDQ17, HZ18a, HM16, HMH18, KC17, KKK16, KPS17, LLL19a, MGMDGVR17, SAC17, Sai16, TKMT17, WD18, YN18, YZ15c, YH18b, Zha15b, ZJ17a]. **three-dimensional** [CTZK18, GRVC15, LLL19a, SAC17, ZJ17a]. **three-level** [WD18]. **three-party** [MGMDGVR17]. **three-phase-lag** [Sai16]. **three-point** [AHS19, KKK16]. **Three-steps** [AR16]. **three-term** [YN18]. **three-terms** [YZ15c]. **threshold** [BJK15, JSW18a, LYG15, YY16]. **thresholding** [CPL+19a, YSL17, ZPL17, ZPL18]. **tight** [CG17a, Vis19]. **tightly** [Kad17]. **Tikhonov** [BBH+17, CP18, DWQ16, GS18b, MRS17, PRRY18, PB15, WWZ15, YW15c]. **Time** [AMP18, AAKW16, LRZ15, MGMGJLRB17, MFWK18, ADG19, ALC19, AG18, AY19, APYW19, AYSE19, ÁRS16, AK19, AW19a, AS19a, AL19b, AR19, AHK19, AFN17,

AL19c, BBCK19, BO18, BVZ17, BK15a, BO16, BB18, BKK18, BK15c, BM19a, BEHL17, Bot16, BHU18, BK19c, BLH+17, CL18a, CGPR17, CM16, CLC16, CLC18b, CLA19, CW15b, CS18b, wCW15a, CJ19, Con18, CLPZ17, DEY19, DSA15, DA19, DXZ18, DLM17, DF16b, Din16, DV16, EAKS18, ERPD18, EG17, EPC17, FLJT18, FH16, FE16, FPGK19, FP16b, FR18a, FY18, GHM18, GM16a, GZD+19, GPHAPR15, GPHAPR17, GO15, GGK18, GG15, GM17b, Guo17, HCL17, HP17, HA18, HKZZ15, JHJB17, JAN17b, JLCZ17, KC17, Kav16, KMD+16, KKW16, EP18, KBG17, KVO18, KS17b, KK17, KTT16, LXW19, LLT16, LJ15, LHLL18, LMUZ18, LC18, LWS16, Liu16].
time
[LZY17, LF19, LSP18, ML17b, MAK19, MDG17b, MDVM17, MJ18b, MO18a, MO18b, MP17a, Miy17, Miy19, MTKO17, Ngo19a, Ogu17, OCU17, OCU18, Prz15, QLZ19, QLT+17, RZ19a, SB18, SGL17, SLA19, SZZ+16, SJ17, Sho18, Slo15, SAT15, SCP19, SYD15, SYD17, SZJ19, SYW19, Tra15, TGSS17, TNTL18, US19, VFFGV16, VS15b, VM15, WCS17, WWZ15, Wan18a, WS19, vtWvdHvdVV16, WS16, YZJC15, YZY17, YHZ18, YH18b, ZYXT16, ZXQH17, ZQJY18, ZH18, ZHH+19, ZYL19, Zha17b, ZZG+19, ZWWW19, ZL17c, dlHV16, vV16].
time-average [CL18a]. **time-censored** [FPGK19]. **Time-consistent** [LRZ15, CW15b]. **time-correlated** [Liu16, WS19]. **time-delayed** [ML17b]. **time-dependent** [AL19b, AR19, BBCK19, BM19a, CGPR17, FY18, GHM18, Guo17, JAN17b, JLCZ17, LXW19, MDG17b, SJ17, Slo15, SYW19, VFFGV16, YZJC15, ZQJY18, ZL17c, dlHV16]. **time-domain** [LHLL18, VS15b]. **time-fractional** [AR19, BB18, LF19, QLT+17, SB18, SYW19, WWZ15]. **time-harmonic** [AFN17, GM16a, Wan18a, YH18b]. **time-irregular** [Prz15]. **time-optimal** [MO18b]. **time-parallel** [KBG17]. **time-periodic** [AL19c]. **time-reversible** [AHK19]. **time-series** [MAK19].
time-space
[CLA19, Din16, HA18, RZ19a, ZZG+19].
time-splitting [EAKS18]. **time-stepping** [CM16, Con18]. **time-varying** [AG18, AY19, APYW19, AS19a, EPC17, FE16, HKZZ15, LJ15, LMUZ18, SZZ+16, ZHH+19, ZWWW19]. **times** [GMSR18, GMSR21, GDC15b, GC17, LPT17, MOY18, PD19, STZ16, SDH17, VL19, WZ16].
timescales [Nat19]. **timestepping** [KRR18]. **timing** [LQZ16]. **Timoshenko** [RL18]. **Titchmarsh** [Yak19]. **TKEMPR** [OD17]. **Tocher** [BI17, KB19]. **Toeplitz** [Elo19, Hon19, NZL17, WLZ15, WLZ17, ZZG+19, ZZ15]. **Toeplitz-plus-diagonal** [WLZ17]. **together** [SR16b]. **tokamak** [HVV15]. **tolerance** [La19].
tolerance-control [La19]. **Tomographic** [SAH17, CGvA+15]. **tomography** [AMM19, AALZ15, DFRR15, LDZ17, MA19a]. **tool** [BCMP16, Rom18]. **tools** [VAMGR17].
topics [SB19]. **topological** [LZA19].
topology [LZS15]. **TOPSIS** [CCIL18].
toric [WZZ18]. **Torii** [PI19]. **torrefaction** [NGGL+19]. **Torregrosa** [Wan18f]. **Torres** [DLY18]. **total** [LH16, LSL15]. **totally** [APS15a, MM19, Maz18]. **tourist** [MLW19].
toy [JSW17, JSW18b]. **TR** [Wu16b]. **traces** [JHPT15]. **track** [MCGNBD17]. **tracking** [GSM18, KK17, LWLL18, LHM16, LZL+18b, SF16]. **Tractability** [HPT19]. **traction** [DGM16a]. **Trade** [ZYL18]. **traded** [DSDV15]. **trading** [CW15b]. **traditional** [Ran15]. **traffic** [AVGCMVM17, BM19b].
training [SAH17]. **trait** [BYWPA19].
tranches [OG16]. **transaction** [BE19, TF18, dFG17]. **transfer** [Abd18, CRCM16, CH17b, GRS19, Gia18, GMCD15, GYLQ16, SWH16, SYD17, YSCY17].
Transform [GFPGF19, CCJ16, CM18b, FM18a, GB16, HS19, LDK17, Mej17,

OM17b, QG17, XYZ15, XM16]. **transformation** [BDSB16, CCNQ+16, JK19, KK19c, LX17, OM17b, PTV17, YPD16]. **transformation-free** [KK19c]. **transformations** [CD15, GKBG17, LWZZ16, LSXL19, NSW15, OCU17, OGR17a, LGB18, OCU18, YZ15a]. **transformed** [DNK19, IJ18]. **transforms** [CY18b, DKV16, JYK17, MVC19, Xia19]. **transient** [AW19a, BK15b, GGC15, LZRH19]. **transition** [GN18, IAMCI18]. **transmission** [GYX17, MDVR19, Xu18, YBLH17]. **transmutation** [KT15]. **transmuted** [SKC+19]. **transport** [BFMP19, BS17c, CSS19, CFSS18b, CLVW18, DKL+18, DI19, EAKS18, FLMS16, LP19, TV16a, Tho16, VFGPG+18, ZFK18, TBAH16]. **transportation** [RFLM16]. **transported** [SRA+15]. **transversal** [ADD+16, BAAA+15]. **trapezoidal** [LWZ17]. **Trasona** [NGGFM17]. **Traub** [ACMT17a, PP18b]. **traveling** [ÁD14, ÁD15, ÁD17, ZLF18]. **travelling** [CRGB17]. **treatment** [Akh19, BS17a, BGL17, LPST17, LSZ16, MLV16, SB19, WZS18a]. **tree** [HXC19, Zha17a, ZCS+19]. **trees** [HLLS18, LZ17a]. **Trefftz** [Liu17]. **trends** [SDG15, VACR15]. **trial** [LDW17]. **triangle** [AJR15, KF16, Pap16a, Pap16b]. **triangles** [AV16, BK19a, KB19]. **triangular** [BBC17, CDDD19, CNT17, HY19a, MPS19, NLG15, WL19b, ZZG+19, ZM16b]. **triangulated** [HLMS19]. **triangulation** [WKXT15]. **triangulations** [BDIR19b, GK18b, HRRC19, ZWL18]. **Tridiagonal** [OV17, BCMP16, CDR18, HK18, JSL15, LRL+18, MT16a, MT17a, SY18, OD17]. **Trigonometric** [WWM17, AIS+17b, BS17a, LL17, NJCS19, Rót15, TLFC18]. **trigonometric/hyperbolic** [Rót15]. **trigonometrically** [DP16, FYY17, KMRS16, LWDW18, VAR15]. **trigonometrically-fitted** [LWDW18, VAR15]. **triharmonic** [KV19a]. **triple** [DP19b]. **triples** [WKBB17]. **tripling** [DY15]. **trivariate** [BIR17a, SST15]. **Truncated** [DRS16, DFLM19, DRST19, GLMY18, HLM18, Lan18, LX18, LW19a, Mao15, Mao16, Wan15b, ZSL18, ZJK16]. **truncated/adjusted** [TLTJ18]. **truncation** [BYW18, HB16]. **trust** [ESAE18, HP15, RKB16, RS16]. **trust-region** [ESAE18, HP15, RKB16]. **Tucker** [GH19b, LSH18a]. **tumor** [JC18, KCDACC17, TLLL19, ZHC19]. **tumor-host** [TLLL19]. **turbine** [GCTGC16]. **turbulence** [JSW17, JSW18b, MS18]. **turbulent** [EKKT17, GN18, MFWK18]. **Turing** [Rät15]. **Turing-type** [Rät15]. **turning** [BR15a]. **TV** [PKMM19, THC+18]. **Tweedie** [KSR15]. **twist** [FGS19]. **twisted** [WS17]. **Two** [Che19a, DSA15, El 17, HA18, LA15c, OGR17b, OV17, PSS17, QM15, RRM18, Vab18, WR16, WL16, Yam19, Yao18, ZCH18, ZwKN15, AFBJGJ17, AN19, ABEHV16, AR15a, ABT16, AB18b, BM17b, BM18, BE15, BBQ18, BSS15, BG17, BCD15, BEHL17, BPD15b, BWS17, BRA16, BZ16a, BH17b, CJP17, CM19a, CDF+16, Ceb17, CHX18, CMM17, CLZS19, Che16a, CLW17, CZLV17, CSW19, Cou19, DHAM17, DA19, DBdLdM+19, DT18, DD16b, ES18, DCNY18, EAKS18, EJJ15, FEC18, FYY17, FSNS16, FGF19, FR18b, FY18, GS15b, GR19, GXZ15, GWY17, HSWH15, HHKR15, HMDSR19, HMP15, HCSC16, HB16, JKL+15, KMRS16, KV18a, KGES19, KKP+19, KS16, KW18, LA15a, LX15a, LLCG16, LMW18, LWDW18, LSW19, LLG19, LFCW19, LHZ15, LZ16b, LC17b, LDZ18, LFWC19, LM17b, LZRH19, MTV17, MS17a, MP15, MPH18, Mit15b, MV16c, NE17]. **two** [Ngo19a, OP19, OCU17, OCU18, PGRC18a,

PCSR19, PG16, Qi19, RNPK15, RKS16, RCBG19, RT18a, STZ16, SE16, SW17a, SKB15, SLA19, SVAKGR19a, uIuD18, SZ18, SV16b, SO16, WKBB17, WHS17, WXY17, XHZ17, YL18b, YFS18, YSL+18, ZZ19, ZZW16, Zha18, Zha17b, ZZZ15, ZCD17, ZWX18, ZH15, iW16, vSV15]. **two-asset** [FEC18]. **two-barrier** [BRA16]. **two-block** [CLZS19]. **two-body** [OCU17, OCU18, SKB15]. **two-by-two** [CLW17, ZZ19, ZZZ15]. **Two-component** [Vab18, YFS18]. **Two-dimensional** [PSS17, AN19, BM17b, BM18, BBQ18, BSS15, BEHL17, CDF+16, Che16a, DA19, EJJ15, FSNS16, FY18, GWY17, HMDSR19, KGES19, LLG19, MS17a, NE17, STZ16, SE16, SLA19, uIuD18, SZ18, SO16, XHZ17, ZZW16, iW16]. **Two-grid** [ZCH18, HSWH15, ZH15]. **two-layer** [ABT16, DBdLdM+19, LZRH19, PGRC18a]. **two-layered** [YL18b]. **Two-level** [LA15c, QM15, AB18b, CMM17, CZLV17, LX15a, Ngo19a, vSV15]. **Two-parameter** [OV17, HMP15, PCSR19]. **two-patch** [KV18a]. **two-phase** [CM19a, CSW19, Cou19, ES18, EAKS18, HCSC16, KS16, Mit15b, MV16c, PG16, RNPK15]. **Two-point** [ZwKN15, CJP17, CHX18, FGF19, GS15b, LM17b, RT18a]. **two-sample** [AFBJGJ17]. **two-scale** [BH17b, DCNY18, Zha17b]. **two-side** [MPH18]. **two-sided** [LFWC19, WXY17]. **two-step** [FYY17, FR18b, GXZ15, KW18, LWDW18, SW17a, SVAKGR19a, SV16b, WKBB17, WHS17]. **Two-sweep** [WL16]. **Two-tailed** [Che19a]. **Type** [TLTJ18, AAM18, ARCA+19, AÖ17, AAKT19, AKHSU18, AYSE19, AST19, ABK19, ÁD14, ÁD15, AL16, ABEHV16, AR15c, AGM15, ABB18, BIR17a, BDIR19b, BO16, BS17b, Bog15, BAI17, BZ16a, BRZ15, CW15a, CJT15, CSTU17, CBMPP15, DP16, DL16a, DG16a, DAAF16, DGM16b, FL23, GS18b, GKN18, GMW18, GYS17, GHZ+15, Güc17, Gun18, GL19, Haj19, HR15, HIS16, JM18, JS17, JMSL19, JW17, JA17, KK19a, KL15, KB16, KGMS18, LP15a, LLZ16, LA15c, LCL16, LMUZ18, LC18, LTY17, LWTQ17, MHAA15, MA19b, Mej17, MVPN15, MIT15a, MB15b, NBAK19, NP15, PM15, RMVA17, REBF16, Rät15, Reu16a, RMA19, Sha15, SJ15, SK15, Sta19, TC19, TP19, VFGPG+17, WLLC18, Wan18g, WLM16, WL17c, WLC+18, WH19, Xia19, XDY16, XZN+19, Yak19, YLL15, YT16, ZuI17, ZNG15, ZJG+15, ZG19a, ZJ19, VS15a]. **Type** [Wu18, YZPL18, ZSW16, MSZ18, NAK17]. **type-1** [BDIR19b]. **type-6** [BIR17a]. **type-I** [ABB18, VS15a, ZSW16]. **type-II** [ZG19a, YZPL18, NAK17]. **types** [DT18, LSBL18b, LSXL19, ML17a].

Uhlenbeck [BCNP15, WSW15]. **Ulam** [Xia17]. **ultimate** [GLP16, Wan17b]. **ultra** [FS19b]. **ultra-weak** [FS19b]. **ultraspherical** [HB16]. **ultraspherical/Chebyshev** [HB16]. **unbounded** [CCZZ16, CLC16, GM16a, HZ17a, Nat19, OM17a, Ugu17, ZM15a, ZWGL18]. **Uncertain** [XDZZ19, CD15, IN16, KV16, OAN17, WS19, ZB18]. **uncertainties** [APYW19, CJV17, HWP+15, LWV18]. **uncertainty** [ASV17, BK19d, CNQRR18, CTAT19, GB16, Mej17, NP19, TA17, VFN18, YL18d]. **Unconditional** [CLC18a, JKL+15, Ngo19a]. **Unconditionally** [KS16, CJLT15, LHY19, YZH18]. **unconstrained** [And16, And18, DZM16, Fat16, HWZ18b, HY19b, LLX17, LSDY19, LL18]. **Uncorrelated** [Nie15]. **underdetermined** [GHA+15]. **underlying** [LKN17, Mär17]. **unemployment** [SSCM18]. **unfitted** [BV18]. **Unified** [AG19, GFPGF19, XD17, CLC18b, CJT15, RMVA17]. **Uniform**

[AIL17, HS18b, HS19, Wan17b, AL18, BAHC17, Bog19, CLX17, DVA19, GDCK19, HMMV17, IL15, KD17, LT18, LI15, MHV17, MPH18, NSV18, NSYX17, RC19]. **uniform-convergence** [NSV18]. **uniformization** [ATV15]. **Uniformly** [YZJC15, EC18]. **unifying** [HY19b]. **unilateral** [HMS19]. **Uniqueness** [ZLZ17, CS19, FM19a, KLS19, SDH17, SLW17]. **unit** [BCA18, BCCB15, CBMO15, MS19b]. **unitary** [BDG15]. **unity** [DMP19, DP17b]. **univariate** [COGD19, GZDC19, Han15, OD17]. **university** [GR16]. **unknown** [AR19, GS15c, GS15d, PS15, PN16, SCP19]. **unmixing** [TYQ+19]. **unsaturated** [CYY15a]. **unstable** [ABT17]. **unsteady** [CM16, GGW16, LCX18, MV16b, Yan17]. **unstructured** [Che16a, NR19, SLS18, WKXT15]. **unsymmetric** [AW19b, AvG16]. **until** [BRA16, CLPZ17]. **update** [And17, VL19]. **Updating** [HVV15, SVGM17, Yua15]. **Updating/downdating** [SVGM17]. **upon** [MD18, QWZ18]. **upper** [CNT17, GAB17, LXL15, LXL16, NTPVNTDT15, SB19, Tru19, WP17, WGZ15, Yao16]. **upper-bound** [NTPVNTDT15]. **upper-triangular** [CNT17]. **Upscaling** [VCL+19, AEK19, CMHHS17, VCC+19]. **upside** [DNK19]. **upside-down** [DNK19]. **Upwind** [CZ16, Jeo15, GLL19, HSWH15, LSZ16, LYS19, ZL17c]. **upwind-biased** [LSZ16]. **urban** [AVGCMVM17, BLH+17, FAVGC+15, FLMS16, SPG+16a]. **Urysohn** [GKN16]. **use** [AS19b, DAM15b, ZS18c]. **used** [Mar19b]. **useful** [OLRPdCJ19]. **user** [HS17a, JCC15]. **user-friendly** [HS17a]. **Using** [BFLP15, Kre19, SJRR17, AHM18, Abd18, AG16a, AKHSU18, AM16, ALV19, AA18, AMM19, AdQdS16, AW19a, AS19a, AR15b, ABB18, AdGvG19, AKM18, BSLL19, Beh16, BDGIPG15, BGL17, BCD15, BS19, BS17c, COdSR16, CCNQ+16, CCJ18, Che18, CDE18, Con18, CHVRT15, DS19, DSN17, DLM16b, DI15, DD17, EDO19, EW18, FEC18, FJLB18, GRVC15, GUB+17, GH16b, GH17a, GMG19, God16, GSM18, GSM19, GD17, GGK18, GFPGF19, HVV15, HH15, HR15, HH16, Hu16, HIS16, IGRL17, Jan17a, JB18, JYK17, JN19, KV19a, KR17, KW16, KS15a, KMB15, KVO18, KtTBK18, LHK19, LW15, LCC+15, LSYY19, LSH+19, LHM16, LSBL18b, LOAGBR15, LC16, MAK19, MDH19, MT16b, MXW17, NN18a, Nem15, NTPVNTDT15, NSV18, NGGFM17, NLG15, Pap16b, PD17, PRP19, PBGG17, QDY+19, Qui15, ROB17, RRW17]. **using** [RANG15, RT18b, SF18, SY19, SBP17, SLH15, SAH17, hShX17, SPG+16b, TXFH18, TLFC18, Ugu18, UGG+19, VFG18, VMM18, VCL+19, VFGPG+18, VL19, WGHR17, WLZ17, Wan18g, WYLD19, WLM16, Yam17, YZ15a, YZH18, YS19, YB17, YTSZ15, ZCST18, ZHY+17, ZWZ+18, ZG19c, Zyg17]. **utilities** [HOTZ18]. **Utility** [LN16, Iid15, PX17, dFG17]. **utility-based** [Iid15]. **utilizing** [AD18, HMMV17]. **Uzawa** [CHS15, LZ17b].

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HS17b, HSAA19, KS17a, KMB15, LYG17, MFX15, MD18, MII16, ML19b, MHL16, MH16a, MH16b, MS17c, MSH18, MAS19, MTS17, NN18a, Nem15, Pis17, Reu16a, SLH18, Sar19, SK16, WR16, WCS18, XHZ17, XY19, XF16, YAA19, ZM15b, yZ17, ZX19]. **Volume** [BG15, HMMV17, AM16, AW19b, ABT16, BSS15, BCS17, CWXW17, CSW19, DF15, ES18, GLL19, GMCD15, HSWH15, KHS+18, LZC15, LGYC19, LYS19, MC19, NSYX17, RNPK15, SKBT16, WL19b, Xin16, YSL+18, ZKRL15]. **volume-finite** [BCS17, ES18]. **Volume-of-Fluid** [BG15]. **volumes** [Rót15]. **volumetric** [NCQ+18, XMW+15]. **Voronoi** [WKXT15]. **vortex** [Uda18, Xu17]. **vortices** [MF16]. **vorticity** [MV16b, SO16]. **Vries** [AKHSU18, BGS19, FS19b]. **vs** [FR18a]. **vulnerable** [JYK17, PG19].

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