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(m, s) [AdST07]. 1 [CM06, CFJ03a, CFJ03b, EZ08, FMS07, Mic02]. 2 [KS07].
3 [Deu09, KNWN09, LSW05, RS04]. 8 [FG02, KP08, ZK00]. ⁰ [BW05]. BV
[EK00]. BV_t [BKRT04]. C^0 [AD01]. C^1 [QQ03, Nov01]. $\cos(z)$ [VC01]. D
[AD01, Hac08]. D^2 [AdST05]. FE [BH03b]. G^2 [FG02]. H
[AFW00, BH03b, Lac00, CMS01, GHK02]. H^2 [LSW02]. $H_0(\mathbf{curl}; \omega)$
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[Sid05]. $\sin(z)$ [VC01]. θ [AG01]. V [AD07]. $W^{1,p}$ [AM06]. $W^{2,\infty}$ [AdST05].
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-continuous [FG02]. **-cycle** [AD07]. **-cyclic** [XG00]. **-d**
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-Toeplitz [dFP05]. **-type** [CLM03]. **-version**
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[CP01b]. **Analysis** [Bak02, Ber01, Ber03, CR05, CB00, DK01, DI01, DV08b, ER09, HHW00, HSZ06, LN04a, OR06, PS09a, San04, Sch09, Sid05, WL02, WLJ04, ABC03, ACC⁺02, AD01, AMtTB03, BNT05, BLS05a, BC07a, BCD04, Bar05, BGHNR03, BRS05, Ber02, BCP07, BN01, BCH07, BMS00, BJ00, Cap02, CP01a, CS04, CH06, DF07, DHNL⁺00, ESW02, FP03a, FP04, FNP07, FGSn02, Gal02, GLRvdE05, HCC09, HSS08b, HP01, HL04b, HMMC04, Joh04, KL00a, KR09, KK00, Kùg05, KW08b, KW08a, LLP07, LM00, MN06, McS09a, MR03, Neg08, NN06, NCV06, PC09, Reu02, RAVS07, SPSF00, SBL06, ST05, Tsu03, WO00, dVLM09, CFJ03b]. **Analytic** [HSZ06, NR03, BGM01, DDP07, SS00, de 05]. **analyticity** [TW00, TW01]. **angle** [Str08]. **Anisotropic** [FP03b, Ang00, ANS01, BGN08, BCD05, DE06, FP01, KV00, Kun00]. **annuities** [CF08]. **any** [DE06, MX06, WcSX07]. **Appending** [DK01]. **application** [BBD06, BLV06, CWRR02, Fae02, FG02, LS08, OPR06, SL02, TJ07, PMC01]. **Applications** [Gei07, Moo03, WR05, AXY02, AdST07, Ber09, BGCP05, BSS04, Erv09, GHK02, GLRS09, LS09, MSS02, Med01, NCV06, SZ09, Yan02, GPC05, BSS05]. **applied** [Gri05c, HWW02, Koc05, Mas02, San01]. **Approach** [CFM06, AC01, BFS01, BGS02, BR04, BMVX07, BJ03, CK07, CLRM01, CIS06, CS07, Che01, GZ01, HR04b, PY02]. **approximability** [BBO04]. **approximants** [BH03b, BR02, Mat01]. **Approximate** [CJMR04, HKT08, OWW04, WR05, BKW07, JKC09, Jer08, Kùt03, LT01, MP02, NTW01, RS04]. **approximately** [ZLW04]. **Approximating** [AM08, BH04, KM02]. **Approximation** [Beb00, BLM05, CZ03, FHV03, Hac07, Mos01, AG00b, AP01, ADM04, Bab00, BC07a, BH03a, BB01, BLN04a, BB04, BB08, BRM⁺04, BD04, BG05, BC00, BMV09, BC03b, CR00, CDRG⁺07, CB00, DMC00, DGH09, DR04a, DR03, EL05, FP03a, FH07, Gal02, GW05, GT07, GHK02, GM06, GHL⁺05, GT04, HPPS02, HR04a, JKN09, Joh00, KW06, KP01a, LSW02, Liu00, LY01, LFLPS05, MS00a, MSTZ03a, MSTZ03b, Neg03, Pam01, Put02, Sti05, SHS08, Wal00, hW02, Yse07, Zha03, Zha04]. **Approximations** [MSS02, ABH05, Bak02, CM08, DW00, DH06, EK00, FvOP05, FNP07, GGM02, GGM09, GPW03, GJ02, HR00, JU05, LRW06, LM08, LPSV03, NCV06, Ohl01, TS03, Usc08, ZR05]. **arbitrary** [Chr07, Hes06, KMS04, MT05, dlCYGV07]. **argument** [VC06]. **arising** [BLN04b, FNP07, GJ02, Liu00, dSB08]. **Arithmetic** [BB06b]. **Armijo** [ZZL06]. **Armijo-type** [ZZL06]. **Aronszajn** [Fae02]. **artificial** [HHW00, TZ03]. **aspects** [LS08]. **assemblies** [AC01]. **associated** [JKC09, KL00b, Noè04]. **assumption** [DN02]. **Asymptotic** [BD01, CC04, GT04, HL04b, LM05, Max07, WW03, BC07b, Cao06a, DGS07, GMZ02, Pam01, WW02]. **Asymptotic-preserving** [GT04]. **Asymptotically** [Koc05, Ova06]. **Atkinson** [Sid05]. **atmosphere** [Med01]. **atoms** [DY09]. **attraction** [BD02]. **augmented** [BPW05, Che01]. **automata** [CC00]. **automatic** [PMC01]. **Auxiliary** [HWZ06]. **average**

[KW08b]. **Averaging** [BC04, Huh07, CCC⁺05, FV06]. **axiomatic** [CIS06]. **axis** [Zhe06]. **axisymmetric** [AP05, BBD06, Lac00, CJK⁺06].

Babuska [Tsu03, XZ03]. **backprojection** [RS07]. **Backward** [MR03, Mos01]. **balance** [BAL07, Hac07, KW08b, KW08a, STWW07]. **balanced** [GT04]. **Balancing** [GPW03, LLP07, dVLP06]. **Banach** [CM08]. **band** [NCV06]. **banded** [SC07]. **barrier** [FO09]. **bars** [MT03]. **Barycentric** [FH07, Gau01]. **Barzilai** [DF05]. **based** [AM01, AS02, BFLW09, BKW07, CMPS04, CS06, DV00, EW03, GHM09, GKB09, Kan01, LRW06, MM09, Max07, Moo01, MS00b, Ova06, OM01, Pro00, RT06, RS02, VBM01, Voh08, Yun03, dV08a]. **Bases** [HSZ06, LSW05, LS01a, Peñ02, Peñ06, SS05]. **basis** [Joh04, TGSS08]. **BDF** [DV08b]. **BDMS** [LV04a]. **beam** [Cop08]. **behavior** [HL04b]. **Bellman** [Grü04, JKC09]. **BEM** [EW03, EH06, GM05, HPPS02]. **BEM-discretizations** [EW03]. **Bénard** [KNWN09]. **bending** [Lyl00, PS00, dVNS07]. **benefit** [CF08]. **Bergman** [BR02]. **Bermúdez** [PCM02]. **Bermúdez-Moreno** [PCM02]. **Bernstein** [AKR09, Not06]. **Berrut** [Gau01]. **Besov** [ABH05]. **Bessel** [Pas00]. **best** [CNY02, DQQ01, QQ03]. **between** [Lyl00, Nab03]. **BGK** [Bou03]. **bidagonal** [BOL02]. **bidimensional** [Gal02]. **bifurcating** [KNWN09]. **biharmonic** [AD01]. **bimaterial** [Liu00]. **Bingham** [Zha03]. **binomial** [LHJB07]. **Biorthogonal** [HPPS02, SS00]. **Bivariate** [BMVX07, vGLS02]. **Black** [AW07]. **Block** [NCV06, BN03, Cao01a, CG04, Kre09, XG00]. **block-diagonal** [CG04]. **Blockwise** [XG00]. **blow** [BQR05]. **blow-up** [BQR05]. **Blowing** [FG02]. **Boltzmann** [JY09, MP05, PTV03]. **Borwein** [DF05]. **Boson** [MP05]. **bound** [AdST07, BB01, Hes06]. **boundaries** [Zha07]. **Boundary** [BCS02, BHvPS03, CM06, Sze06, AG00b, AM03, AM02, AKK⁺08, ADM04, Beb00, BH05a, BH07, CR05, Cao06a, CM00, CS00b, CS03, DK01, DGS07, DHN07, ES08, Fae02, GGLV01, GHS00a, GHS00b, GS02, GNP08, GH04, HKS07, HHW00, Heu98, Heu01a, Heu01b, HS09a, HS05, KK05, Koc05, KS02c, Kwe00, LW00, Lin09, Mar01, Mic02, Moo01, MS00b, Nov01, SA07, Ste00, Ste03a, SU09, Stö01, ST05, TW00, TW01, TS03, TS00, BC03a]. **bounded** [JY09, Vov02]. **Bounds** [PS02a, Bab00, BH03a, BH03c, Che07, GH08, Gri05c, HWW02, McS02, PS00, XY09, de 05, vGLS02]. **Boussinesq** [WLJ04]. **box** [DF05]. **box-constrained** [DF05]. **bratwurst** [KL00b]. **breakage** [KW08b, KW08a]. **Brezzi** [XZ03]. **Bubble** [GGRG05]. **bubbles** [BMS00, San01]. **Bulirsch** [Fis02]. **bundle** [Sim00]. **BVM** [SC07]. **BVMs** [AT03].

C [BW05]. **Cahn** [FP03a, FP04, Fur01, GW05]. **calculation** [Sch09, Weg02]. **can** [CDLP07]. **canonical** [OM01]. **capacity** [JV01, zSlZ04]. **capillary** [Bän01, Weg02]. **capillary-gravity** [Weg02]. **cardinal** [BD01, Gau01]. **Carlo** [CDLP07]. **Cartesian** [LLW03, VK09]. **cascade** [JLL02]. **cascadic**

[Ste02b, Tim00]. **Case** [CFM06, AJMN02, ACP02, BNT05, CNY02, ER09, EPS01, Fae02, GR04, GP08, Hes06, LN04a]. **Cassini** [Peñ03]. **Cauchy** [BM00, KL03]. **cell** [HCC09, KW08b]. **cement** [AJMN02]. **centered** [CK02, HCC09]. **central** [CK08, KP01b]. **central-upwind** [CK08]. **certain** [FL06, Küg05]. **CG** [AK04]. **chains** [KNS08]. **characteristic** [BMV09, DMC00, RT02]. **characteristic-Galerkin** [DMC00]. **characteristics** [Mah09]. **Characterizing** [GS08]. **Chebyshev** [AM01, AKR09, DGV02, Maz08a, dFGAN00]. **chemically** [Pro00]. **chemotaxis** [CK08, Fil06]. **choice** [KS02a, PMC01, VVVM06b]. **Christoffel** [OST07]. **circle** [DGV02, SL02, dICYGV07]. **circles** [Nie02, Peñ03]. **Circulant** [CC00, CNY02]. **clarifier** [BKRT04]. **clarifier-thickener** [BKRT04]. **class** [AG00a, AMN09, BS06a, Ber01, But04, CP06, Cao06b, CWRR02, CLM05, EMAS01, MM09, WcSX07, dV04]. **classes** [AT03, Bey00, FL06]. **classical** [GLRvdE05, HJL09, SBL06]. **Clément** [BBD06]. **Clenshaw** [WT07]. **close** [JL03]. **closed** [GS02]. **closure** [BBC⁺05]. **Clough** [AS02, LS01a]. **cluster** [Sch09]. **clustering** [HKS07]. **coalescence** [Hac07]. **coefficient** [BM00]. **coefficients** [BH03b, BV00, Dry05, EW02, JKN09, Lin09, RXH05, TT05, WP00]. **coercive** [AG00a]. **collision** [PTV03]. **collisions** [Mau06]. **Collocation** [Stö01, CS00b, CS03, ED02, Koc05, KS02c, KMS04, Mar01, MFR03, SA07]. **Combined** [BH05b, EHV06]. **Comments** [Pyt02]. **commutative** [AT01]. **Commuting** [DST05]. **compact** [Lin08]. **compactness** [Bof00]. **companion** [BGP05]. **Comparison** [Son02]. **Comparisons** [Nab03]. **Complement** [CJK⁺05, CJK⁺06]. **complementarity** [ACP02, Kan01, MNS08, ZLW04]. **complementary** [HMS03]. **Complex** [DH09, HS06, Put02]. **Complexity** [MSW06, DRSZ08, DXZ08]. **compliance** [FGSn02]. **complicated** [CS04, RSS06]. **component** [BB01]. **Componentwise** [CP01b]. **Composite** [mWS05, RSS06]. **Composition** [MS00b]. **compositions** [CJMR04]. **compound** [AB02]. **compressibility** [KL00a]. **compressible** [FMS07, GMZ02, Kwe00, Yan02, Yse01]. **Computation** [BLV06, GHNP03, HSZ06, PR09, SL02, BDS07, BP04, BD04, DRSZ08, Mat01, MC04, Pas00, PGL07]. **Computational** [Dzi08, BB00, FGSn02]. **computations** [BGM01, DXZ08, Fou09]. **Computing** [DHN07, Mul01, BL09, CLM03, CLM07, DV05b, ED02, GST04, Li01, Pro00, RS02, VVM04]. **concentrated** [JV01, zSlZ04]. **concentration** [BB01]. **concepts** [DDP07]. **Condition** [CW03, BC07a, Bec00, BGL07, DK01, GS08, KNS08, Kwe00, Leb02]. **conditioned** [BRZRS03]. **conditioning** [BLO07]. **Conditions** [Sze06, AJMN02, BCD04, BBCM00, BLV06, CM00, DK01, DHN07, Erv09, EH08, HHW00, HR00, KK05, LN04b, MS00b, SS08, TMO04, TW00, ZOS00, TW01]. **conducting** [KM02]. **confluent** [Mul01]. **conformal** [KL00b, MSS02]. **conforming** [AJMN02, BCH07, Lac00, MT05, WcSX07]. **congruence** [Bey00]. **conjugate** [Ari04, Dai01, EN00, LP08, NE00, ZZL06]. **connecting** [CKP07, Pam01]. **connection** [Lyl00]. **conquer** [CG04]. **Conservation**

[CHL08, ADM04, Ber05, Bou01, CHC01, CL01, DGMM01, Des01, GR04, HKR01, Hac07, HJL09, HWW02, KMR09, KP01b, Küt03, LS01b, LWW01, OWW04, PW05a, Vov02]. **Conservative** [CFJ03a, CFJ03b, Ber01, Fur01, Mah09, MP05, PMC01, Voh08]. **Conserved** [Can06, CLL08]. **consistency** [LSW02]. **Consistent** [MKV04, Leb02]. **constant** [BM00, PCM02, Pot04]. **constants** [Fou09, Wal00]. **Constrained** [Hor04, DF05, Hai03, HR04b, HTY08, Kor02, MS00b, SZ09]. **constraint** [BP08, Cao06b, CLRM01, Tai03]. **constraints** [DGH09, RT06, ZLW04]. **Constructing** [Xu00]. **Construction** [Chu06, CS00a, CFJ03a]. **Contact** [FHV03, Che01, Cop08, EW03, FGSn02, RAVS07, SŻ05]. **continuation** [NR03]. **Continuous** [BF07, BKRT04, EZ08, FG02]. **control** [BC04, BV07, BLV06, BY05, CCS05, Car05, CH07, CGJ09, CF08, DH04, DGH09, GLQ01, Hag00, HR04b, HTY08, LY03, MST06a, NSV03, NAE07, SW00]. **Controllability** [CZ03, CM06, Mic02]. **controlled** [GK01, JKC09]. **convection** [Ang00, BV07, BGCP05, DV08b, Hol08, LS01c, Mah09, Ohl01, Reu02, RT02, TT05, ZR05]. **convection-diffusion** [BV07, BGCP05, Hol08, LS01c, Mah09, Ohl01, Reu02, RT02, ZR05]. **convection-dominated** [Ang00]. **Convergence** [ACC⁺02, AW07, AMtTB03, BC07a, BP08, Ber05, BDD04, BC09, Bou01, BCH07, BLN04b, Cao01a, Cap02, CH06, DXZ08, DR03, DQQ01, EGHM02, FMDH03, FP09, GJ02, HKR01, HR00, JLL02, JY09, KMR09, Küg05, KW08b, KW08a, LRW06, LS01b, LX09, LWW01, MSTZ03a, PM08, PGL07, Reu02, ST05, VBM01, VV03, Vov02, Zha07, dVLM09, BNZ05, BCR04, BCD05, BKRT04, BF07, CDLP07, hDxY99, EN00, FvOP05, GGJ03, GH04, JKN09, Jer08, JV01, Kim05b, KW06, Kwe00, LR09, LZ09, LHJB07, Lin08, LS09, MT01, Mat00, NE00, PCM02, PT06, Pyt02, Rie01, SW03, SS05, Tai03, VVVM06a, ZOS00, ZZL06]. **Convergent** [PS09b, Vee02, ACMR06, AK04, BC08, BM08, BCGJ07, GR00, MT03, Obe04, PK05, ZLW04, Boc01]. **convex** [AM08, AP01, CR00, DW00, DQQ01, GLRS09, Küt03, QQ03, Usc08]. **convexity** [CLRM01]. **convolution** [CCP07, Hac08, LS08, PSN04, SW00]. **convolutional** [CS00b]. **Coordinates** [Gal03, KMKZ09, OM01]. **correct** [Koc05]. **correction** [AMtTB03, ZZ03]. **corrector** [CC05]. **corrosion** [AKK⁺08, CHB08]. **cosine** [FO09]. **Cotes** [WS08]. **Couplage** [BBP01]. **coupled** [BRS00, BRM⁺04, DI01, DHNL⁺00, Sch09]. **Coupling** [EH06, GM05, GLQ01, GR04, HPPS02]. **covolume** [CK02]. **crime** [Sim00]. **crimes** [KK00]. **criteria** [ALW05]. **criterion** [Ari04]. **Critique** [Mül03]. **cross** [BB04, BG05, GGJ03, Yse07]. **cross-diffusion** [BB04, GGJ03]. **Crouzeix** [ANS01, HS09a, RXH05]. **crystalline** [BP04]. **crystals** [BCG06]. **cubature** [DST05, Hes06, Pet03, Xu00]. **curl** [AFW00, BB08, BCLS08, BL05]. **curl-curl** [BCLS08]. **Current** [ZCW06, BLS05a, BRS05, RVH09]. **Curtis** [WT07]. **curvature** [DD02, DH06, FP03a, FNP07, Obe04]. **curve** [HMS03]. **curved** [HR04a]. **curves** [CS03]. **curvilinear** [CS00a]. **cusps** [BNZ05]. **cut** [PTV03]. **cut-off** [PTV03]. **cycle** [AD07]. **cyclic** [XG00]. **cylinder** [GST04]. **cylindrical**

[Zha03, dV04].

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[EZ08, CM06, CFJ03a, CFJ03b, Deu09, FMS07, KS07, LSW05, Mic02, RS04].
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diagonal-plus-semiseparable [VVVM06b]. **diagonalizable** [Che07].
diagonally [AXY02, Bou07, DK04]. **Difference** [CZ03, AT01, BLS⁺05b, BD02, BKRT04, Da08, Fur01, JV01, Lin08, LSY09, Obe04, zSIZ04, WP00, WL02, WW02, WW03, WLJ04, WP06, dVLM09, dV08a]. **differentiability** [EH08]. **Differential** [GP03, BM00, BMV09, BLN04b, BY05, CYY07, Chr07, DR04a, ED02, GM06, GPHA04, Gri05c, Gri05b, GS00, Hei09, HK05, HMY07, JKN09, KS02c, KMS04, Mas00, Mas02, MSW06, MST06b, MSTZ03a, MSTZ03b, SW08, Stö01].
differential-algebraic [KS02c, KMS04, Stö01]. **Diffraction** [GHNP03, BBP01]. **diffusion** [Ang00, AMtTB03, BB04, BV07, BGCP05, BMS00, BCGJ07, DR03, DM04, DV08b, DE06, GGJ03, HS05, Hol08, Jer08, Lin09, LS01c, Lin08, Mah09, MR01, Ohl01, Reu02, RT02, San01, San04, Ste05, WP00, WP06, ZR05, dFL04].
diffusions [JKC09]. **diffusive** [CL01]. **diffusive-dispersive** [CL01]. **digital** [CDLP07]. **Dimension** [HO08, Chr07, Hes06, Maz08a, Moo01, Pet03].
Dimensional [LM05, Bou01, BH03c, BCLS08, CR05, ER09, EFG06, Fae02, Fou09, GHM09, GP08, HKR01, KNWN09, LN04a, ST05, Sze06]. **dimensions** [AG00b, Bab00, BGN08, GH04, Hac08, HHW00, Heu98, Heu01b, MX06, Tos00, TS03, WcSX07]. **diminishing** [PW05a]. **Diophantine** [EMAS01].
Dirac [ABR06]. **direct** [BHV03]. **direction** [BCGJ07]. **Dirichlet** [TW01, BCD04, CC04, EFG06, GPC05, NR03, RSS06, SU09, TW00, BC03a].
disc [AP05, Joh00]. **Discontinuous** [BL05, Lin09, RSWW03, CGJ09, Dry05, GK03a, GK03b, Kim05b, LN04a, LPSV03, RXH05, ZR05, GNP08].

discrepancy [JT09]. **Discrete** [DSS02, EK00, GHS00a, Hip01, JU05, KK05, AdST05, Bak02, BGCP05, Bof00, CM06, CL01, DD04, DD02, ESW02, EZ08, FO09, Gei07, GS02, Grü04, KP01b, LWW01, Mic02, RS07, Vec01, Zha07, ZZ09]. **discretization** [AG00a, ABC06, Bän01, BP08, BV04, BBD06, BBCM00, BF07, Can06, Cas01, Dry05, DT07, GGJ03, GW08, Grü04, HL04b, HLS05, Hol08, MPRS01, MST06b, RPK08, RG04, SKR04, TZ03]. **discretizations** [ABC03, CD04, CHL08, EW03, HJL09, Mar02, PK05, PS09b]. **discretized** [AGS09, MST06a]. **disk** [Boc01, Boc01]. **Disk-Algebra** [Boc01]. **dislocation** [ACMR06]. **dispersive** [CL01]. **dissipative** [MN06]. **distance** [PS02a]. **distributed** [DH04]. **distribution** [AC01, Bak02]. **distribution-valued** [Bak02]. **disturbance** [Chu03]. **div** [AFW00, BB08, BCLS08, BL05]. **div-curl** [BB08]. **divergence** [CDRG⁺07, DR04b]. **divergence-free** [DR04b]. **divide** [CG04]. **divide-and-conquer** [CG04]. **Domain** [BB06a, CZ03, GGM02, GLS07, GKB09, BH03a, Ber03, BH03c, Buf02, CK07, CM00, DT07, FML00, GK02, GGLV01, LW00, Nab03, BC03a]. **Domains** [BHvPS03, Olv06, BNZ05, BCS02, BCD05, BCJ09, CCSS09, CK07, CC04, Cao06a, CS04, CJK⁺05, CJK⁺06, CD02, GLRS09, HSS08b, HO09, HR04a, JKN09, JY09, RSS06, Vov02]. **dominant** [AXY02, Bou07, DK04]. **dominate** [KV00]. **dominated** [Ang00]. **Doppler** [RS04]. **double** [TMO04]. **doubling** [GLX06]. **doubly** [EK00]. **Drazin** [SK03]. **Drazin-inverse** [SK03]. **DtN** [NN06]. **Dual** [LSW05, CCS05, LP09a, MT01, QQ03, Li05]. **dual-mixed** [CCS05]. **dual-primal** [MT01]. **Duality** [PMC01, GPC05]. **d'un** [BMV03]. **DW** [HS08]. **dynamical** [dSB08]. **Dynamics** [Gal03, ACMR06, CCC⁺05, JL03, KQW04, SHS08].

early [FO09]. **early-exercise** [FO09]. **Eddy** [ZCW06, BLS05a, BRS05, RVH09]. **Edge** [KV00, Bof00, BCG06, BCD05, KP08, TS03]. **effect** [SS05]. **Effective** [KO00]. **Effects** [BC03a]. **efficiency** [GS07]. **Efficient** [Hac08, HSZ06, NTW01, Xia07, PW05b]. **eigendecomposition** [CG04]. **eigenfunctions** [CC04]. **eigensystems** [Ste01b]. **eigenvalue** [BGL07, BGP05, BCJ09, DRSZ08, DXZ08, Kre09, LN04b, Noë04, SU09]. **eigenvalues** [BS06a, CC04, Che07]. **eigenvectors** [dSB08]. **Elastic** [FHV03, BB08, Che01, FGSn02, Liu00]. **elastic-plastic** [Liu00]. **Elastic-Viscoplastic** [FHV03, FGSn02]. **elasticity** [AW02, BGS02, CD04, CS00a, GPW03, LWC09, LV04b, RSWW03, Ste03a, Yan02, dVLP06]. **elastoacoustic** [BGHNR03]. **elastoacoustics** [ARPR04]. **electric** [BRS05, BC03b, RVH09]. **electromagnetic** [BCJ09, KM02]. **électromagnétique** [BBP01]. **electronic** [Sch09, Yse04, Yse05, Yse07]. **electrostatic** [AKK⁺08]. **Element** [BB06a, BDD04, BDR03, BHvPS03, LSW05, ZCW06, AG00b, AM03, ARPR04, AD01, Ang00, Ari04, ALW05, Bab00, BBO07, BNZ05, Bän01, BH03a, BV02, BB01, BLN04a, BB04, BGS02, BC04, BCD04, BC08, BP08, Beb00, BV04, BV07, BM08, BBD06, BBCM00,

BL05, BRS00, BGHNR03, BV00, BH05a, BH07, BG07, BG09, BC00, BCR04, BCH07, BCLS08, BF01, BY05, BCS02, BF07, BGG04, Cao06a, CYY07, CBJ02, CD04, CCS05, Car05, CH06, CS06, CH07, Cas01, CM06, CX08, Chr07, CB00, DXZ08, DGH09, DI01, Deu09, DHNL⁺00, DH06, EL05, EW02, ES08, Erv09, EHV06, Fae02, FP04, FvOP05, FNP07, GGM02, GT07, Gei07, Ger00, GHL⁺05, GHS00a, GH04, GLRS09, HKS07, HLPS05, HP01, HMMC04, HXZL08, HO09, HR04a, Heu98, Heu01a, Heu01b]. **element** [HS05, Hol08, HS09b, Jer08, JU05, KK05, KL00a, KM02, KK00, KS07, KV00, Kum00, Lac00, LRW06, LM08, Ley04, LLW03, LYZ01, Lin09, Liu00, LV04b, Mar02, McS02, MX06, Moo03, Neg03, Neg08, RPK08, RXH05, RSS06, RSWW03, RT02, SA07, SKR04, Sch04, Ste00, Ste03a, SU09, TT05, TW00, TW01, TS03, TS00, Tsu03, hW02, WcSX07, Wil03, XC01, Yan02, YW06, ZK00, ZZ03, dVNS07]. **elements** [AM06, AS02, ANS01, AW02, BRM⁺04, Bof00, BCG06, BCD05, BCJ09, CP01a, CDRG⁺07, CS00a, CD02, FMDH03, GHL⁺05, GH03, GHS00b, GGRG05, HS09a, KS01, LS01a, LV04a, Lyl00, McS09a, MT05, Osw08, PS00, ST03, Ste02b, Vee02, Zha04, BBP01]. **elevation** [Maz08a]. **ellipsoids** [MKV04]. **Elliptic** [BDR03, CZ03, ABR06, AK04, BNT05, BH03b, BV00, BG07, BG09, CC04, Cao06a, CYY07, Cap02, CS04, CDRG⁺07, CN00, CK02, CM00, DGH09, Dry05, FP03b, GHL⁺05, GNP08, HLPS05, HSS08b, HO09, Hor04, JU05, KK05, KK00, KS07, KL03, Küg05, LW00, LN04a, LM08, LPSV03, Liu00, LS09, Lui02, MX06, NSV03, RXH05, ST03, Tim00]. **endpoint** [Sid04]. **Energy** [CLL08, CHL08, EZ08, Sti05, vGLS02]. **Energy-conserved** [CLL08]. **Enhanced** [CS05, BCR04, NN06]. **enriched** [FMDH03]. **entropic** [DM04, MP05]. **Entropy** [Bou03, Gal03, Ber05, DR04a]. **Entrywise** [AXY02, XY09]. **envelopes** [DW00, LP01]. **Epi** [PK05]. **Epi-convergent** [PK05]. **equal** [But04]. **equal-weight** [But04]. **Equation** [CFJ03a, CFJ03b, ACMR06, AW07, BLN04a, BV07, BGCP05, BN01, BC03b, Cao06a, CMS01, CMPS04, CM06, CZ03, DD04, DF07, FP03a, FP04, Fur01, Gal02, GW05, GR00, Grü04, GLX06, JV01, Kan01, Lac00, Liu00, MP05, MST06b, MM07, Mic02, MS00a, Neg08, PTV03, Per05, SKR04, Ste05, zSIZ04, TZ03, WW02, Yse04, Yse05, Zhe06]. **equation-based** [Kan01]. **Equations** [BH05b, Gal03, MSW06, Sze06, AGS09, ABC03, AM03, AKK03, ACC⁺02, Ang00, AMtTB03, AG01, ABC06, Bän01, BGN08, Bar05, BM00, BV00, BGP05, BMV09, BY05, BCS02, BD02, BF07, CCP07, Can06, CC04, CYY07, CCS05, CDRG⁺07, Cas01, CC05, CWRR02, CLL08, Chu06, CB00, CHL08, CS00b, CD02, CS03, Da08, DMC00, DH04, DR04a, DY09, ESW02, ED02, EK00, EGHM02, EFG06, FMS07, GGM02, Ger00, GM06, GGLV01, Gri05c, Gri05b, GP08, GGRG05, GS00, HMS03, HO08, HPS03, Hei09, HK05, HMY07, HS08, HPSS05, JKC09, JKN09, JU05, KL00a, KW08b, KW08a, KMS04, Ley04, LYC03, Li05, LY03, LFLPS05, MT03, Mas00, Mas02, MFR03, Med01, MR01, MX06, MSTZ03a, MSTZ03b, Moo01, Mos01, NSSV06, Ohl01, OR02, OWW04, OPR06, PMC01, PY02]. **equations** [RPK08, RG04, Reu02, STWW07, SW08, SW00, TW00, TW01, TJ07, Tos00,

TGSS08, Vec01, WP00, WL02, WW03, WLJ04, Wil03, ZZ09]. **equilibrated** [Max07]. **equilibria** [GP03, GPHA04]. **equivalence** [Gro09]. **equivalences** [BSS04, BSS05]. **equivalent** [AK04]. **Erratum** [BSS05, GK03a, Heu01b, MW06, TW01]. **Error** [AdST05, BH03a, BH04, Buf02, FP04, FNP07, Grü04, HWW02, JKC09, Kim05a, MT03, MV07, NN06, PC09, RPK08, TT05, WO00, Zha03, dSB08, de 05, vGLS02, AM06, AMN09, ACC⁺02, ABH05, ABR06, AG01, BFS01, BB01, BGS02, BC04, BCD04, Bar05, BV04, Ber02, Ber09, BD01, BG09, BCR04, Bra05, BMS00, BJ03, CMS01, CBJ02, CS04, CD04, CMPS04, CCS05, Car05, CS06, CH07, CGJ09, CHC01, CN00, CE01, CM08, DH04, Deu09, DV05b, EL05, EW03, FV06, FP01, FP03b, GHM09, GLRvdE05, Gri05c, Hes06, HN05, Hol08, HS09b, Joh04, Koc05, KV00, Kun00, Küt03, LM08, Ley04, LT01, LY01, LY03, LV04b, MN06, Max07, McS02, Moo01, Moo03, MR03, NSV03, NSSV06, Noë04, Not06, Nov01, Ohl01, Ova06, PS00, SKR04]. **error** [SW08, SW00, SW01, SBL06, Tsu03, Voh08, Wal00, ZK00, dV04, dVNS07, dV08a]. **error-based** [Moo01]. **errors** [Bab00, SS00]. **Essentially** [TJ07, XY09]. **estimate** [BGS02, BG09, Buf02, CMS01, CD04, CMPS04, CS06, CHC01, Hol08, HS09b, MV07, Ohl01]. **Estimates** [DW00, AM06, AMN09, ACC⁺02, ABH05, ABR06, AdST05, AG01, Bab00, BFS01, BH04, CBJ02, CN00, CE01, CM08, DRSZ08, DH04, Deu09, EL05, FP01, FP03b, GLRS09, JKC09, Kim05a, KV00, Küt03, LM08, Ley04, LT01, LY01, LY03, Moo03, NSSV06, PW03, RPK08, SKR04, SW01, Ste02a, TT05, Voh08, ZK00, Zha03, dV04, dVNS07, dSB08]. **Estimating** [SS00]. **Estimation** [BD02, BV04, BJ03, Grü04, Koc05, Moo01, Nov01, SW08]. **Estimations** [BMV03, HN05]. **estimator** [EW03, GHM09, Kun00, Max07, Noë04, San01, dV08a]. **estimators** [BCR04, Bra05, FV06, LV04b, Ova06]. **Euler** [FMS07, Sid04]. **Eulerian** [Gal03]. **European** [AW07]. **evaluation** [DSX00]. **Evans** [HSZ06]. **evolution** [AKK03, AG01, BFS01, BGN08, HMS03, HO08, MN06]. **exact** [Ova06]. **exactness** [Max07, MCS09b]. **exercise** [FO09]. **Existence** [BH03b, SHS08, BFLW09]. **expansion** [Cao06a, GMZ02, WW02]. **Expansions** [LM05, BDS07, BJ00, CC04, DSX00, EvP04, FO09, Sid04, WW03]. **Expected** [CW03]. **experiments** [FGSn02]. **Explicit** [dFP05, CP06, CC05, TJ07, Tsu03, VV03]. **Exponential** [SW03, CP06, GHK02, Gri05c, HMY07, Huh07, TZ03]. **exponentials** [XY09]. **exponents** [BL09, DV05b]. **Extended** [Maz08a, GT07, AKR09]. **extension** [AdST07, Tsu03]. **extensions** [DST05]. **exterior** [AB02, BG01, BGG04, DI01, Deu09, ES08, FML00, GM05, HHW00, NN06, Nov01]. **extra** [AB03]. **Extrapolation** [Wen01]. **extremal** [Sti05].

Faber [KL00b]. **Factorization** [BGM01, CP01b, PR01, Yun03]. **family** [LN04a]. **Fast** [BDS07, BD04, BGP05, DDH07, DDHK07, LFLPS05, MP05, OR02, PSN04, CWRR02, DSX00, MNS08]. **FDTD** [CLL08]. **FE** [NN06].

feasible [Kan01]. **Fejér** [WT07]. **FEM** [BC07a, Ber02, BS06b, CGJ09, EH06, GM05, HPPS02, MBS00]. **FEM-BEM** [HPPS02]. **FETI** [Bre03, Li05, PS09a]. **few** [Pet03]. **fictitious** [CK07]. **Field** [BH05b, BRS05, BC03b, Noë04]. **fields** [Ber03]. **filing** [FG02]. **film** [GR00]. **Filon** [Xia07]. **Filon-type** [Xia07]. **filter** [Mos01]. **filtered** [RS07]. **filters** [BCM06]. **filtration** [ST05]. **financial** [BLN04b]. **finis** [BBP01, BMV03]. **finis-potentiels** [BBP01]. **Finite** [Bän01, BLN04a, BB04, BB06a, BGHNR03, BDD04, BDR03, BY05, CYY07, CDRG⁺07, CHC01, CZ03, DGH09, Des08, Deu09, DHNL⁺00, DH06, GT07, GH⁺05, HR04a, KK00, LSW05, Liu00, QQ03, WP00, mWS05, ZCW06, dV08a, AT01, AJMN02, ABC03, ARPR04, AD01, ABH05, Ang00, AW07, ANS01, Ari04, ALW05, AW02, Bab00, BBO07, BNZ05, BH03a, BV02, BB01, BGS02, BC04, BCD04, BC08, BP08, BV04, BV07, BM08, BBD06, BL05, BMV03, BRS00, BV00, BRM⁺04, BLS⁺05b, Ber09, BG07, BG09, BCG06, BC00, BCR04, BCH07, BCLS08, BF01, BCJ09, BF07, BGG04, Cao06a, CP01a, CBJ02, CD04, CCS05, Car05, CH06, CS06, CH07, CM06, CWRR02, CX08, Chr07, CB00, CD02, DXZ08, DI01, DE06, EL05, EW02, Erv09, EGHM02, EHV06]. **finite** [EFG06, FP04, FvOP05, FNP07, FMDH03, Fil06, Fou09, Fur01, GGM02, Gei07, Ger00, GH03, GGRG05, GLRS09, HCC09, HLPS05, HP01, HMMC04, HXZL08, HO09, Hol08, Jer08, JV01, JU05, KK05, KMR09, KL00a, Kim05a, KM02, KS01, KS07, KV00, Kun00, Lac00, LRW06, LM08, Ley04, LLW03, LYZ01, Lin09, Lin08, LSY09, LV04b, MP02, MT05, MV07, MR01, Moo03, Neg03, Neg08, Nie02, Ohl01, Osw08, PS00, RPK08, RXH05, RSS06, RSWW03, RT02, SKR04, Sch04, ST03, Ste02b, TT05, TW00, TW01, TS03, Tsu03, Vee02, VV03, Voh08, Vov02, WL02, hW02, WLJ04, WP06, Wil03, WS08, Yan02, YW06, ZK00, ZX02, Zha04, ZZ03, dVLM09]. **finite-dimensional** [Fou09]. **finite-element** [BC00, Hol08]. **finite-infinite** [DI01]. **finite-part** [WS08]. **finite-volume** [BMV03, HCC09]. **First** [Ber09, BC07a, Pro00, VV03]. **fit** [Nie02]. **fitted** [AW07]. **fitting** [MKV04]. **fixed** [Chu03, KW08a, MFR03]. **Fletcher** [ZZL06]. **flow** [BP08, BBC⁺05, Ber02, BCP07, CR05, CE01, CS00a, DD02, Deu09, Dzi08, FvOP05, FNP07, SW03, Yan02, YW06, Zha03]. **flows** [BC07a, FP03a, JY09, Pro00, VK09]. **fluctuation** [Bou01]. **fluctuation-splitting** [Bou01]. **fluid** [BB00, BRS00, DHNL⁺00, GHM09, LM00, Zha03, dSB08]. **fluid-solid** [BRS00]. **fluid-structure** [LM00]. **fluids** [BRM⁺04, Yse01]. **flux** [Ber05, Bou03, KW06, LSY09, Voh08]. **flux-based** [Voh08]. **Fock** [MT03]. **fold** [BGS02]. **Forchheimer** [GW08]. **form** [CDRG⁺07, CLM07, DF07, PMC01, VVVM06a]. **forms** [Chr07]. **formula** [Ber09, BD01, BP01, BP03, MC04, Tsu03]. **formulae** [DST05, Gau01, MCS09b, Not06, Xu00, dICYGV07, de 05]. **formulas** [DGV02, PGL07, SL02]. **Formulation** [ZCW06, AB03, ABC06, BG01, BGN08, BRS00, BGHNR03, CF08, KS02b, Kwe00, LRW06, LLW03, RVH09, SW01, WL02]. **formulations**

[BRS05, CS00a, Med01]. **Fortin** [Bof00]. **Fourier** [CJK⁺05, CJK⁺06, FO09, Lac00]. **Fourier-cosine** [FO09]. **fourth** [Lin08, Mar01, MX06, STWW07, WLJ04]. **fourth-order** [Lin08, STWW07]. **fourth/second** [Mar01]. **fractional** [MM07, San04, Ste01a]. **fracture** [Neg03]. **frame** [CS07, CCF08]. **frames** [HSS08a]. **framework** [Ari04, BFLW09, BKW07]. **free** [Bän01, BMS00, CR05, DR04b, Küg05, ST05, VVVM06b, Zha07, San01]. **French** [BMV03]. **frequency** [BW04, DGS07, ER09, FML00, GJ02, Mos01]. **Freudenthal** [Bey00]. **frictional** [RAVS07]. **frictionless** [FGSn02]. **Friedrichs** [HKR01]. **Froude** [VK09]. **full** [AGS09, Can06]. **Fully** [GS02, Bak02, CL01, CM08, DD02, RS07]. **Function** [HSZ06, DV05a, DSS02, DHN07, Joh04, MC04, MC06, Mul01, NCV06, VC06]. **function-vorticity** [DSS02]. **functional** [BC00, BMV09, GT07, Ova06]. **functionals** [DSX00]. **Functions** [PP03, AM08, AdST07, BBO04, BS06b, BGM01, DGV02, GGL00, GST04, GLRS09, HS08, MM09, MSS02, Not06, Peñ02, Peñ06, PW05b, PR01, SS00, TGSS08, WP06, de 05]. **fundamental** [Vec01]. **fundamentals** [PS02b].

Galerkin [AMN09, CGJ09, DMC00, GK03a, GK03b, GHS00b, GNP08, GS00, HKS07, HMMC04, HLS05, KV01, LN04a, Lin09, Mah09, RSWW03, TS00, dFGAN00, dSB08]. **Galerkin-characteristics** [Mah09]. **gamma** [VC06]. **Gas** [Gal03, KQW04]. **Gauss** [Gau05, MC06, Not06, OST07, PP03]. **Gaussian** [BP01, BP03, DH09, MC04]. **Gautschi** [Gri05c, Gri05b]. **Gautschi-type** [Gri05c, Gri05b]. **General** [Hil06, BMS00, BJ03, CLM03, DSWW06, FNP07, GHS00a, LR09, dSB08]. **Generalized** [KMKZ09, MBS00, SPSF00, AKR09, BBO07, BPW05, BV02, BGL07, BAL07, BGP05, Che07, GPC05, KO00, OPR06, Pas00, Ste02a]. **Generating** [HS08, MM09, NCV06]. **genuinely** [KP01b]. **geometric** [BGN08, LS09, TS03]. **geometrically** [Nie02]. **geometry** [Lac00]. **geostrophic** [STWW07]. **German** [Boc01]. **Gerschgorin** [Peñ03]. **Ginzburg** [Bar05]. **given** [Pet03]. **gives** [DKM09]. **Glimm** [HWW02]. **Global** [hDxY99, Hai03, MS00a, Pyt02, ZZL06, JKN09]. **globally** [ZLW04]. **glue** [AJMN02]. **GMRES** [CLR02, LZ09]. **GMWB** [CF08]. **GO** [KPS03]. **Godunov** [Gal03]. **Godunov-type** [Gal03]. **Good** [DSWW06]. **governed** [BY05, LY03]. **governing** [AW07]. **grad** [BCLS08]. **grad-div** [BCLS08]. **graded** [Ste01b]. **gradient** [Ari04, Dai01, DGH09, EN00, FV06, LP08, NE00, Ova06, ZZL06]. **Graeffe** [MZ01]. **Gram** [GLRvdE05, SBL06]. **Gratings** [GHNP03]. **gravity** [Weg02]. **grazing** [PTV03]. **Green** [DHN07, GLRS09]. **Gregory** [DV00]. **grid** [AGS09, Bey00, BG07, Cap02, CWRR02, DE06, KS02a, LLW03, Ste02b, VK09, Yse05, Moo03]. **Grid-to-Grid** [Moo03]. **grids** [AJMN02, BLS⁺05b, Buf02, GH03, HKR01, HCC09, KW06, LPSV03, SPSF00, WO00]. **Griffith** [Neg03]. **group** [AT01]. **groups** [KMKZ09, Wen01]. **growth** [BLO07]. **guaranteed** [CF08].

H [BNA07, ZCW06]. **H-** [ZCW06]. **Hadamard** [mWS05, WS08]. **half** [CWRR02, DHN07]. **half-plane** [CWRR02, DHN07]. **Hamilton** [ACMR06, Grü04, GP08, HS08, LYC03, LT01]. **Hamiltonian** [CCC⁺05, Can06, CFM06, CLM07, Hai03, HJL09, Sun07]. **Hancock** [Ber06]. **hand** [CDRG⁺07]. **handle** [BQR05]. **Hankel** [Bec00, BGL07]. **haptotaxis** [CK08]. **harmonic** [AP05, BP08, HPSS05]. **harmonics** [DSS02]. **Hartree** [MT03]. **heat** [BP08, BN01, HS05, JV01, zSIZ04, YW06]. **Helmholtz** [DI01, DHN07, ES08, FML00, GM05, GS02]. **Herglotz** [SL02]. **Hermitian** [BGCP05, BGP04, CNY02]. **heteroclinic** [BH04]. **hétérogène** [BBP01]. **Heterogeneous** [GLQ01, GPW03, HO09]. **hexahedral** [Zha04]. **High** [McS09a, BNZ05, BCGJ07, DGS07, DKM09, ER09, FML00, FH07, GJ02, Hua09, LYZ01, NTW01, dVLM09]. **high-frequency** [DGS07, ER09]. **high-order** [dVLM09]. **Higher** [GK01, LSW05, BGN08, JKN09, MN06]. **Highly** [Olv06, EW02]. **Hilbert** [Da08, EN05, Neu00, Yse04]. **Hilliard** [FP04, Fur01]. **historical** [Gau05]. **HJB** [ZZ09]. **Hodge** [Chr07, Hip01]. **Hölder** [GLRS09]. **Holling** [GT07]. **holomorphic** [MP02]. **homogeneous** [AP01]. **homogenization** [BJ00, HO09, MBS00]. **homotopy** [BFLW09]. **Householder** [Str09]. **hp** [GNP08, SW03, Moo03, TS03, SW08]. **HP-Adaptivity** [Moo03]. **hp-DGFEM** [SW03]. **hp-Discontinuous** [GNP08]. **HP-finite** [TS03]. **hp-version** [SW08]. **HSS** [BGCP05]. **Hu** [LRW06]. **Hybrid** [BG05, GHS00b, BL09, DGS07, EHV06, HMY07, Ste00]. **hydrodynamic** [BBC⁺05]. **hydrodynamics** [BC07b]. **Hyperbolic** [BAL07, Ber05, BH04, DR04a, GR04, KP01b, LS01b, LMV02, Sti05, TJ07, Yse07]. **hyperbolic-parabolic** [TJ07]. **hypercube** [But04]. **hypergeometric** [Mul01]. **hyperplanes** [Nie02]. **Hypersingular** [LM05, AG00b, BH05a, CMPS04, Heu98, Heu01b]. **hyperspheres** [Nie02].

ideal [BMVX07, BKW07, BKRT04]. **identification** [BV04, KS02b, Küg05]. **identity** [CJMR04]. **II** [CNY02, CJK⁺06, CFJ03b, Fae02, GT07, KW08b, NE00, VC01]. **III** [BRM⁺04, CE01, EN00, RS04]. **ill** [BRZRS03, KS02a, Neu00, RT06]. **ill-conditioned** [BRZRS03]. **ill-posed** [KS02a, Neu00, RT06]. **image** [CCSS09, HMS03, MR01]. **imaginary** [VC06]. **impedance** [BHV03, DHN07]. **Implementation** [BC00, GHS00b, WY06]. **Implicit** [DKM09, AKK03, BP08, HMS03, MR01]. **implies** [DN02]. **improve** [CDLP07]. **Improved** [EK02, BB01, Joh00]. **Improvements** [GS07]. **Improving** [BNZ05]. **impulse** [CF08]. **incomplete** [VC06]. **incompressible** [BC07a, BH03a, CE01, Deu09, Ger00, GGLV01, GMZ02, LRW06, Li05, Sch04, Ste03a, WLJ04, dVLP06]. **inconsistent** [ZOS00]. **increasing** [Pet03]. **indefinite** [HPSS05]. **independence** [HTY08]. **independent** [CC05]. **index** [KMS04, CCM04]. **Index-2** [CCM04]. **inelastic** [Mau06]. **inequalities** [GPC05, HXY08, HLW03, Kor02, KS07, Tai03]. **inequality** [Ber05]. **inertial** [NTW01, PR09]. **inexact** [HZ02, LR09, Rie01]. **Inf** [BBCM00, MT05, BC07a, GS08, Leb02]. **Inf-sup**

[BBCM00, MT05, BC07a, GS08, Leb02]. **infinite** [DI01, GS00]. **infinitely** [AG01]. **infinity** [Deu09]. **inflow** [Kwe00]. **inhomogeneities** [BHV03]. **Inhomogeneous** [BCD04, GJ02, LFLPS05]. **initial** [AM02, Bak02]. **inpainting** [CCSS09]. **Instability** [Mas02, AD00]. **instationary** [DH04]. **integer** [EPS01]. **integrable** [CCC⁺05]. **Integral** [BLM05, BH05b, GST04, BG05, BY05, BC03b, CMS01, CWRR02, CS00b, CS03, DGS07, GS02, Heu98, Heu01b, MFR03, Mü03, WS08]. **Integrals** [LM05, Olv06, mWS05, DH09, Hac07, JLL02, Sid04]. **integrated** [BS06b]. **Integration** [OM01, But04, MM09, MR03, PK05, PW05b, Sid05]. **integrations** [GPHA04]. **integrator** [Gri05c]. **Integrators** [CFM06, CP06, Hai03, JL03, KMKZ09, PC09]. **Integro** [MSW06, BLN04b, BY05, DR04a, MST06b]. **Integro-differential** [MSW06, BLN04b, BY05, DR04a, MST06b]. **interaction** [BC09, GHM09, LM00]. **interactions** [GT07]. **interface** [AJMN02, GR04, HLPS05, LLW03, OR06, OPR06, PW03]. **Interior** [HPSS05, ZR05, BW05, BF07, KP08, LPSV03]. **Interlacing** [DJ07]. **intermediate** [dV04]. **internal** [AKK⁺08]. **interpolants** [Gau01]. **interpolating** [AdST05]. **Interpolation** [AM06, BLM05, CGS06, DR07, Moo01, WR05, ZK00, AdST07, Ber09, BD01, Boc01, BMVX07, CIS06, DV00, DR04b, DQQ01, EL05, FH07, GL05, Joh00, Joh04, Ker03, MS00b, QQ03, Moo03]. **Interpolationspolynome** [Boc01]. **Interpolatory** [DGV02]. **interval** [BP01, BP03, GS00, MC04, MC06, WS08]. **Invariant** [CFM06, EvP04, PR09, RS02]. **Invariants** [CFM06, BAL07, Sun07]. **inverse** [BH03b, FNP07, JT09, LN04b, NW05, RS04, SK03, dFP05]. **inversion** [RS07, Tsu03, VVM09]. **invertibility** [KS01]. **inviscid** [STWW07]. **irreducibly** [Bou07]. **Irrotational** [DR04b]. **isentropic** [FMS07]. **isoparametric** [AM06, KS01]. **iterates** [Kim05b]. **iteration** [Chu06, EN05, Küg05, Lui02, MZ01, Neu00, RT06, VVM09]. **iterations** [ALW05, ER09, HKT08, KL03, LP08, Nab03]. **Iterative** [HS06, Yan02, Cao01a, FML00, GS07, Heu98, Heu01b, HN00, LP09a, Pot04, SK03, ZZ09].

Jacobi [Grü04, ACMR06, BS06b, DKM09, GP08, HS08, LYC03, LT01, LN04b, Mat00, MC04, MC06, PP03]. **Jean** [Gau01]. **Jean-Paul** [Gau01]. **John** [Bau07]. **jump** [JKC09, dFL04]. **jump-diffusions** [JKC09]. **jumps** [HK05].

Kantorovich [BB00]. **KdV** [Zhe06]. **Keller** [Fil06]. **kernel** [SS00, Xu00]. **kernels** [FL06, PSN04]. **kind** [MFR03, OM01, SW00]. **Kinetic** [ADM04, KQW04, Bou03, Bou01]. **kink** [WT07]. **Kirchhoff** [Per05]. **knots** [PSN04]. **Koenig** [BGM01]. **Konvergente** [Boc01]. **Korobov** [DSWW06]. **Kronrod** [Gau05, Not06, PP03]. **Krylov** [Bec00, Kre06, SS05]. **Kummer** [ST08]. **Kutta** [AMN09, AM02, BLV06, CJMR04, CCP07, CCM04, GPHA04, Hag00, HJL09, Hua09, LFLPS05, Mas00, Mas02, Sun07, TJ07].

Lagrange [Boc01, TW01, Ber00, Boc01, BMVX07, BGG04, DK01, HLPS05, LSW05, TW00]. **Lagrange-Interpolationspolynome** [Boc01]. **Lagrangian** [Ber01, BC09, Che01, Des01, Gal03, PC09, PM08]. **Laguerre** [GS00]. **lambda** [Bor04]. **lambda-omega** [Bor04]. **Lamé** [CCS05]. **Landau** [Bar05]. **Landweber** [EN05, Küg05, Neu00]. **Laplace** [HS05, MST06b, SU09]. **Laplacian** [ABH05, EL05, Kim05a, LY01, Vee02]. **Larché** [GW05]. **Large** [HSZ06, DF05, HWW02, Kre06, RS02]. **large-scale** [DF05]. **laser** [BC09]. **lattice** [DSWW06, JY09]. **lattices** [CGS06]. **Lavrentiev** [HTY08]. **Lavrentiev-regularized** [HTY08]. **law** [BBC⁺05]. **laws** [ADM04, BAL07, Ber05, Bou01, CHC01, CL01, CC05, DGMM01, Des01, GR04, HKR01, HJL09, HWW02, KMR09, KP01b, Küt03, LS01b, LWW01, PW05a, Vov02]. **Lax** [HKR01]. **layer** [Heu01a, LMV02, TS03]. **layers** [EZ08, ZR05]. **LBB** [DK01]. **LCP** [ZX02]. **Least** [BL05, Hei09, Lin09, MKV04, PS02a, PS02b, YW06]. **Least-Squares** [BL05, Hei09, Lin09]. **Legendre** [Mat01, dFGAN00]. **less** [FMDH03]. **level** [BW05, FML00, HMS03, HLS05, HR04b, KS02a, Obe04]. **Lie** [KMKZ09, Wen01]. **like** [BN03, Chu06, GS07, HMS03]. **like-Newton** [GS07]. **limit** [JL03, LRW06, PTV03]. **line** [CWRR02, ZZL06]. **linéaire** [BMV03]. **Linear** [BR04, CW03, Hil06, MSW06, AM02, BN03, BGP04, BPW05, BM00, BMV03, BGCP05, BG07, BG09, BRZRS03, BJ03, CDRG⁺07, CM06, CHL08, Da08, DDH07, DF07, EL05, EK02, EMAS01, GGM09, GPW03, KV00, KS02c, LWC09, LZ09, LS01c, LV04b, Lui02, LP01, Ly100, Mas00, Mas02, MNS08, NSSV06, RSWW03, SW01, SK03, Ste03a, Stö01, WW03, ZOS00, ZLW04]. **Linear-programming** [BR04]. **linearised** [LM00]. **linearization** [Kor02]. **Linearly** [AKK03]. **lines** [BFS01, Nie02]. **Lipschitz** [BHvPS03, BC03b, JKN09]. **loading** [ST03]. **loads** [CD04]. **Lobatto** [MC06, Moo03]. **Local** [HXZL08, KPS03, LSY09, ACMR06, AMtTB03, EFG06, GM06, Hac07, Hei09, LS01a]. **Localization** [Fae02]. **localized** [Ley04]. **locally** [AM03, TZ03, Voh08, WO00]. **locating** [BHV03]. **locking** [HP01]. **logarithmic** [MSS02]. **Long** [CCC⁺05, DF07, HL04a, RAVS07, SW01, TZ03]. **long-term** [RAVS07]. **Long-time** [CCC⁺05, SW01]. **look** [Bra05]. **Lower** [BH03c, Bab00, Hes06, PS00]. **LR** [FP09]. **LU** [GKB09]. **Lyapunov** [BL09, DV05b].

M [AXY02, DK04]. **M-matrices** [AXY02, DK04]. **Maclaurin** [Sid04]. **Macro** [LS01a, AS02]. **Macro-elements** [LS01a, AS02]. **magnetic** [Noë04]. **magnetohydrodynamic** [Ger00]. **magnetohydrodynamics** [Sch04]. **manifolds** [EvP04, NTW01, PR09, Usc08]. **map** [CJMR04]. **mapping** [KS01, MP02, MSS02]. **mappings** [HXY08]. **maps** [AP05, BH04, KL00b]. **Marching** [NW05]. **Markov** [KNS08]. **mask** [PR01]. **mass** [BB00, BRS00, Hac07]. **matched** [EZ08]. **matching** [BLS⁺05b, BBS07, FHV03, HLPS05, LPSV03]. **material** [BH03a]. **materials** [CD04, FGSn02, GMZ02, RAVS07]. **Math** [BSS05, Heu01b, MW06, TW01].

Mathematical [BCP07, CHB08, Gal02, ZLW04]. **Matrices** [GHNP03, AT03, AXY02, Beb00, Bec00, BS06a, BGP05, Bou07, Cao01b, Cao06b, CG04, DK04, EPS01, HKT08, LP08, Mat00, RS02, SC07, Son00, Son02, Ste01b, Tsu03, VVM04, XG00, XY09]. **Matrix** [BB06b, DFLZ03, GHK02, AB02, AD07, BB01, BH03b, Cap02, CLM03, DDHK07, FP09, Kre06, LN04b, OR02, PR01, Ste03b, VVVM06b, Vec01, dFP05]. **matrix-sequences** [Cap02]. **maximal** [CM08, Gei07, MCS09b]. **maximization** [Usc08]. **maximum** [JU05, KK05, TW00, TW01]. **maximum-norm** [TW00, TW01]. **Maxwell** [BC09, BCS02, BHvPS03, CLL08, CD02, HPSS05, Lac00, Tos00]. **Mean** [KL03, DD02, DH06, FP03a, FNP07, HMY07, Obe04]. **mean-square** [HMY07]. **means** [BGM01]. **measure** [KP01a]. **measurements** [AKK⁺08]. **measures** [CR00]. **mechanics** [BB00, Liu00, Neg03]. **media** [Pot04]. **Mellin** [MFR03]. **memoriam** [Bau07]. **memory** [CCP07, RAVS07]. **meromorphic** [GL05]. **Mesh** [AP05, CFJ03a, CFJ03b, HTY08, FMDH03, Li01, ZL03]. **Mesh-independence** [HTY08]. **mesh-less** [FMDH03]. **Meshes** [FHV03, AM03, ANS01, GHS00a, HLPS05, KV00, Kun00, LYC03, LS01c, SA07, TS03]. **Method** [BB06a, CFJ03a, CFJ03b, ZCW06, AB02, ARPR04, Ang00, AW07, AMtTB03, Ari04, AG01, Bab00, BFS01, BBO07, BC07a, BV02, BGS02, BC08, BBC⁺05, BM08, BL05, BLS⁺05b, Ber00, Ber03, BBS07, BH05a, BH07, BL09, BG07, BG09, BCR04, BCH07, BQR05, Bre03, BCLS08, Buf02, BF07, BGG04, CLR02, CS05, CH06, CS06, CM06, CWRR02, CK02, CLM07, CM00, CS03, hDxY99, Dai01, DI01, DGS07, DQQ01, EH08, FML00, FP04, GPC05, Ger00, GGLV01, GK03a, GK03b, Gri05b, GS00, GH04, HCC09, HXY08, HLPS05, HMMC04, HLS05, Hei09, HO09, Heu98, Heu01a, Heu01b, HPSS05, KS02a, KL00a, Kim05a, KNWN09, KM02, KS07, Kre09, KP08, Kun00, LP09a, LWC09, Li01, Li05, LX09, LYZ01, LP09b, Mah09, MT01, Mar02, Mar01, Mat00, Max07, MM07, Moo03]. **method** [NN06, Pot04, Pyt02, QQ03, RSS06, Reu02, STWW07, San01, Sch09, Ste00, Ste03a, SU09, Ste02b, TS00, VVM04, VK09, WLJ04, Wil03, Xu00, XC01, YW06, Zha03, ZZL06, ZZ09, dFL04, dV08a, dVLM09, dFGAN00, CJK⁺05, CJK⁺06, NP04]. **Methods** [BDD04, BDR03, BHvPS03, HS06, Hil06, LSW05, AM01, AKK03, AMN09, AM02, ALW05, AK04, BGP04, BPW05, BV07, BFNS01, BV00, BGCP05, Bor04, BW05, BF01, BY05, BCS02, BJ03, CJMR04, CCP07, Cao01a, Cao06a, CYY07, Cap02, CBJ02, CH07, CCM04, CCF08, CLL08, CX08, Chu06, Da08, DDP07, DF05, DFLZ03, EK02, ES08, Fae02, FMDH03, GGM02, GLQ01, GP03, GHS00a, GS02, GS07, GNP08, GP08, GZ01, GLRS09, HKS07, Hag00, HL04a, HLW03, HK05, HTY08, HS05, HRW02, HS08, Hua09, HN00, IT08, JT09, JY09, Kan01, Koc05, KW08b, KW08a, KV00, KV01, KS02c, KPS03, LW00, LN04a, LLW03, Lin09, LSY09, LS09, LV04b, Lui02, MT03, MN06, MP05, Mas00, Mas02, MR03, Nab03, NAE07, NTW01, OM01, PMC01, PTV03, PS09a, RXH05]. **methods** [RSWW03, Sch04, SW08, SC07, SK03, SS05, SS08, Sti05, Stö01, Sun07, ST05, TT05, Tai03, TJ07, Tos00, Voh08, WY06, Wen01, Xia07, Yan02, ZX02, DV05b]. **MHD** [BKW07, Gal03]. **micromagnetics** [CP01a, KP01a, LX09].

microstructure [BP04]. **microstructures** [Li01]. **midrange** [Nie02]. **mild** [EH08]. **mimetic** [BLS⁺05b, LSY09, dVLM09, dV08a]. **Mindlin** [CS06, Ly100]. **Minimal** [HN00, BF01, HR00, SS08, Sti05, vGLS02]. **Minimally** [Wal00]. **minimization** [DFLZ03, GP08]. **minimum** [CF08, JU05]. **MITC3** [McS02]. **Mixed** [AW02, GH03, Sch04, TS03, BG01, BGS02, BM08, BF01, BGG04, Cao06a, CCS05, CS06, CFA06, CM06, CS00a, DE06, FP04, GGM02, GPW03, Hol08, Kan01, KK05, Kim05a, LM08, LV04b, RPK08, SKR04, SW03, Yan02, Yse04, GM05]. **mobility** [BB01]. **model** [AB03, BB01, BB04, BRS05, BRM⁺04, CHB08, Fil06, GGJ03, GW08, HP01, Neg03]. **Modelling** [SZ05, ACMR06]. **models** [BBC⁺05, Ber02, Bou03, BC07b, CK08, Hac07, Yse01, dSB08]. **Modified** [BCG06, Hai03, HMMC04, ZK00, ZZL06, Zhe06]. **moment** [HSS08b]. **momentum** [CHL08, OWW04]. **Monge** [BB00]. **monotone** [AG01, Ber01, HLW03, Hol08, JU05, Lui02, NSSV06, Obe04, Vov02, ZX02]. **Monotonic** [MST06a]. **Monotonicity** [Bou07, NAE07]. **Monte** [CDLP07]. **Moreno** [PCM02]. **Morley** [HS09b, MX06, dVNS07]. **Mortar** [BDR03, LSW05, BCM00, BLS⁺05b, Dry05, Mar02, RXH05, XC01, GGM02]. **mothers** [BBS07]. **motion** [Obe04]. **mountain** [Hor04]. **Multi** [BRZRS03, HLS05, BB01, CJMR04, GHL⁺05, HS08, KS02a, KW06, MR03, Ste02b, Sun07]. **multi-component** [BB01]. **multi-grid** [KS02a, Ste02b]. **Multi-level** [HLS05]. **Multi-parameter** [BRZRS03]. **multi-revolution** [CJMR04]. **multi-scale** [GHL⁺05]. **multi-symplectic** [HS08, MR03]. **multi-symplecticity** [Sun07]. **multidimensional** [KP01b]. **Multigrid** [AFW00, CK02, HRW02, XC01, AD07, Bor04, Kor02, LWC09, Reu02, Tim00, VBM01]. **multiharmonic** [BLS05a]. **Multilevel** [AM03, DDP07, HSS08a, AD07, GK03a, GK03b, Osw08]. **multiple** [CNY02, ER09, MCS09b]. **multiple-zero** [CNY02]. **multiplication** [DDHK07]. **multiplicative** [BFNS01, Nab03]. **Multiplier** [LSW05, Ber00, GGLV01, HLPS05]. **multiplier/fictitious** [GGLV01]. **multipliers** [BGG04, DK01]. **Multiresolution** [BSS04, BSS05, DGMM01, SPSF00]. **Multiscale** [BP04, Cao06a, EW02, GLS07, HO09, Neg08, PS09a]. **multisplittings** [Yun03]. **multistep** [CP06, GZ01, HL04a]. **Multivariate** [BR02, Olv06]. **multiwave** [BKW07]. **Mumford** [BC00]. **MUSCL** [Ber06, HCC09]. **MUSIC** [AKK⁺08]. **MUSIC-type** [AKK⁺08].

Navier [AGS09, ACC⁺02, ABC06, Bän01, BF07, Cas01, CC05, CB00, DH04, ESW02, GGLV01, HL04b, HLS05, JY09, KL00a, WL02]. **Near** [Ker03, CJMR04]. **Near-interpolation** [Ker03]. **nearly** [Ste03a, dVLP06]. **Necessary** [ZOS00, LN04b, TMO04]. **Negative** [SW00, HPS03, XY09]. **Neighborhood** [BCM06]. **Nernst** [PS09b]. **Nessyahu** [PT06]. **nested** [Zha04]. **nets** [CDLP07]. **networks** [CC00]. **Neumann** [Dry05, GPW03, NR03, Nov01, dVLP06]. **Nevanlinna** [GL05]. **Newton** [Chu06, DFLZ03, DQQ01, GS07, Hac08, HTY08, JT09, Kor02, Kre09, LR09,

QQ03, Rie01, WY06, WS08]. **Newton-like** [Chu06]. **no** [FH07]. **Nodal** [BB06a, BCJ09, CD02, DV00]. **node** [ZK00]. **nodes** [EPS01, MCS09b, Pet03]. **noisy** [HPS03]. **Non** [BB06a, FHV03, Olv06, AT01, AJMN02, ACMR06, AP01, BGP04, BMV03, BV00, BLS⁺05b, BGCP05, BBS07, BH04, BCS02, CR00, CHL08, HLPS05, HL04b, JU05, LPSV03, MT05, Mül03, PTV03, Pot04, SS05, SS08, WcSX07, XY09]. **non-conforming** [AJMN02, MT05, WcSX07]. **non-convex** [AP01, CR00]. **non-Hermitian** [BGCP05, BGP04]. **non-homogeneous** [AP01]. **non-hyperbolic** [BH04]. **non-iterative** [Pot04]. **non-linear** [CHL08]. **Non-matching** [FHV03, BLS⁺05b, BBS07, HLPS05, LPSV03]. **non-monotone** [JU05]. **non-negative** [XY09]. **non-optimal** [SS05]. **Non-overlapping** [BB06a, BBS07]. **Non-polytope** [Olv06]. **non-quasiconvex** [Mül03]. **non-smooth** [BV00, BCS02]. **non-stagnation** [SS08]. **non-stationary** [HL04b]. **nonautonomous** [PR09]. **Nonconforming** [Ste02b, BCLS08, CBJ02, CH06, CH07, LY01, McS09a, Osw08, XC01]. **nonconforming/mixed** [EHV06]. **nonconvex** [BR04, GGM09, LWW01]. **nonequispaced** [PSN04]. **nonhomogeneous** [CHC01]. **Nonlinear** [DSX00, Hil06, Sze06, AKK03, ACP02, BLS05a, BLN04a, BB04, BGS02, BG07, BD02, BGG04, CD04, CCF08, Chu06, CM08, Dai01, DD04, DM04, DV08b, EK00, EGHM02, EFG06, GGJ03, GPC05, GR04, GK01, GNP08, GS00, HKR01, HMMC04, Hei09, HK05, HTY08, HZ02, JT09, KS02a, KK05, KS07, Kre09, KL03, KMS04, Liu00, Lui02, Mah09, MR01, Neu00, Ohl01, Per05, RT06, Tai03, Vee02, WP00]. **nonmatching** [Buf02]. **nonnegative** [Son00]. **Nonnegativity** [GR00]. **nonoverlapping** [BH03c]. **nonquasimonotone** [WP06]. **nonsmooth** [BNA07, GGM09]. **nonstationary** [TT05]. **nonsymmetric** [AK04, BN03, Cao06b, GLX06, LP08]. **nonuniform** [SA07]. **nonzero** [Deu09]. **Norm** [EL05, BSS04, BSS05, Fae02, LY01, Not06, SW00, TW00, TW01]. **Normal** [DF07, FGSn02]. **norms** [AdST05, BB08, San04]. **Note** [Pet02, Gau01, Cao01b, EN00, Gau05, Gri05b, NE00, Peñ06, SBL06]. **nuclear** [AC01]. **Num** [BSS05, MW06]. **Number** [CW03, Bec00, Bey00, VK09]. **numbers** [KNS08]. **Numer** [Heu01b, TW01]. **Numerical** [ACP02, AB02, AP01, BLS05a, BM00, BRS05, BMV09, CR00, CP01a, DR04a, EvP04, FP03a, FGSn02, FHV03, GW05, GW08, HMMC04, HK05, HS05, JL03, LM00, LYC03, Neg08, Pam01, RAVS07, Weg02, Zhe06, AD01, Ang00, BGL07, BCP07, BQR05, BLN04b, BC03b, BJ00, CK07, CC04, CLRM01, CHB08, CF08, CLM07, CHL08, DD02, DW00, DGS07, FMS07, GGJ03, GR04, GP03, GK01, Hor04, KNWN09, KMKZ09, LLP07, LX09, MT03, MP02, MP05, MSS02, MM07, PTV03, Per05, PY02, STWW07, Sid05, TMO04, TZ03, Yse05, Zha03, BRM⁺04]. **numerical-asymptotic** [DGS07]. **Numerically** [ST08, DHN07].

object [KM02]. **observability** [Erv09]. **observations** [XZ03]. **obstacle**

[BBP01, BC04, Bra05, BCH07, CN00, NSV03, hW02, Zha07]. **ocean** [GGRG05]. **oceanography** [RG04]. **off** [PTV03]. **Oldroyd** [AB03]. **omega** [Bor04]. **One** [PT06, Sze06, BFS01, CR05, DW00, DJ07, EFG06, FP09, GP08, LN04a, Moo01, VVVM06b]. **One-dimensional** [Sze06, CR05, EFG06, GP08]. **one-parameter** [DJ07]. **one-point** [FP09]. **One-sided** [PT06]. **open** [BH05a, BH07]. **Operator** [DM04, IT08, AG00b, BBD06, Bof00, DHN07, GHK02, HXY08, HLW03, Heu01a, Noë04, San04, SU09]. **Operators** [BLM05, AKR09, AD00, AK04, BH03b, BH05a, BH07, BG05, DR07, Gei07, GM06, Heu98, Heu01b, Hip01, Huh07, NR03]. **Optimal** [AMN09, Bab00, BV07, FL06, HS06, McS02, NP04, PW03, SW01, AC01, AD01, BC08, Bey00, BLV06, BY05, DXZ08, GH04, Hag00, HR04b, HTY08, KNS08, Kwe00, LPSV03, LY03, Peñ02, Peñ06, SS05, TJ07]. **Optimality** [Osw08, RS07, AD07]. **optimally** [BM08, Leb02]. **Optimization** [EH06, AM08, AP05, BNA07, GGM09, SZ09, SHS08, WY06]. **optimized** [LS09]. **option** [AW07]. **options** [FO09, IT08, LHJB07, dFL04]. **orbits** [BH04, CKP07, Pam01]. **Order** [BLM05, LSW05, AGS09, AM01, AMN09, AM02, BNZ05, BC07a, BLN04a, BNA07, BLV06, BCGJ07, CC04, Cao06a, CDRG⁺07, CK08, CM00, DM04, Gri05c, Gri05b, GK01, HPS03, Hei09, Hua09, JKN09, Joh00, KP01b, Kwe00, Lin08, MN06, Mar01, MT05, MM07, MX06, Pro00, RT02, STWW07, San04, Sti05, zSIZ04, VV03, WW03, WLJ04, dVLM09]. **ordinary** [MSTZ03a, MSTZ03b]. **Orlicz** [DR07]. **Orthogonal** [SK03, VVVM06b, AM01, DJ07, KV01, Usc08, VVVM06a, dSB08]. **orthogonalization** [GLRvdE05]. **Orthomin** [ZOS00]. **Orthonormal** [DV05a]. **Osborn** [Tsu03]. **oscillation** [DN02, FL06, PW05a]. **Oscillatory** [Olv06, DH09, EW02, Gri05c, Gri05b]. **ovals** [Peñ03]. **Overlapping** [Tos00, BB06a, BBS07, Kim05b]. **overrelaxation** [BPW05].

P1 [XC01]. **Padé** [BR02, Mat01, Put02]. **Padé-Bergman** [BR02]. **Padé-Legendre** [Mat01]. **Padua** [BMVX07]. **pairs** [Che07]. **panel** [HKS07]. **paper** [Mül03]. **Parabolic** [MSW06, Bak02, BLN04a, BQR05, BLN04b, CFA06, CS00b, CS03, CM08, DT07, EK00, EGHM02, EHV06, EFG06, GGM02, GST04, GK02, KV01, Ley04, LY03, LFLPS05, MST06b, Moo01, Mos01, PY02, RPK08, SW08, TW00, TW01, TJ07, Wil03, ZR05]. **parallel** [ACC⁺02, BOL02, HXZL08]. **parameter** [BV04, BRZRS03, DJ07, HP01, KS02b, Küg05, MPRS01, NP04, OPR06]. **Parameters** [WR05, PMC01, PCM02]. **parametric** [Dzi08]. **Part** [mWS05, WS08, BRM⁺04, CJK⁺05, CJK⁺06, CFJ03a, CFJ03b, EN00, Fae02, LYZ01, NE00]. **partial** [BMV09, CYY07, GS00, Hei09, SW08, VC01]. **partially** [HXY08]. **particle** [BBO04, Yse01]. **partition** [DDP07, KPS03]. **partitioned** [BLV06, Sun07]. **partitioning** [KP08]. **pass** [Hor04]. **patch** [FG02, ZL03]. **patches** [GHL⁺05]. **Pathwise** [JKN09]. **Patlak** [Fil06]. **Paul** [Gau01]. **PDE** [SZ09]. **PDE-constrained** [SZ09]. **PDEs** [BCM06, CS04, HJL09, Küg05, Lui02, PS09a, Sun07, CK07, Cap02, GLS07].

Peaceman [DR03]. **PEERS** [LV04a]. **penalised** [CP01a]. **penalized** [AW07]. **penalty** [BW05, BF07, HPSS05, LPSV03, LP09a, ZR05, dFL04]. **fictitious** [GGLV01]. **mixed-hybrid** [EHV06]. **quotient** [CLM03]. **second** [Mar01]. **Pencils** [BB06b]. **Perfectly** [EZ08]. **perforated** [CC04, Cao06a, HO09]. **Performance** [ESW02, Yun03]. **periodic** [ED02, JY09, Kre06]. **perspective** [Sid04]. **Perturbation** [GH08, AXY02, CP01b, Che07, DM04, XG00, XY09]. **perturbations** [Bou07, Ste03b]. **perturbed** [BCGJ07, CX08, Lin09, Mar01, Ohl01, Ste05]. **phase** [BB01, BBC⁺05, CE01]. **phenomenon** [WT07]. **Phillips** [MPRS01]. **photonic** [BCG06]. **Pick** [GL05]. **Piecewise** [GGM09, BH05a, BH07, EL05, ED02, Pot04]. **pipes** [Zha03]. **pivot** [KW08a]. **planar** [LWC09]. **Planck** [PS09b]. **plane** [BH05a, BH07, CWR02, DHN07, GM05, Heu01a]. **planes** [Nie02]. **planetary** [STWW07]. **plasma** [BC09]. **plastic** [Liu00]. **plasticity** [HR00]. **plate** [CS06, DHNL⁺00, Joh00, Lyl00, McS09a, Mar02, PS00, dVNS07]. **plate-bending** [PS00]. **plus** [BN03, CG04, VVVM06a, VVVM06b]. **Point** [SZ03, BGS02, BS06a, Cao06b, ESW02, FP09, HZ02, KS02b, KW06, LP08, Mar01, Moo01, OPR06, SZ09, Sti05, WW03]. **points** [BMVX07, TMO04, ZL03]. **Pointwise** [Ley04, NSV03, NSSV06]. **Poisson** [CJK⁺05, CJK⁺06, PM08, PS09b]. **polar** [KMKZ09]. **poles** [Chu03, FH07, dCYGV07]. **polyconvex** [CD04]. **polygons** [BNZ05, MS00a, SW03]. **polyharmonic** [BB08]. **polyhedral** [BCD05, BCJ09, CD02, GLRS09]. **Polynomial** [GM06, ED02, MFR03, MS00a, Pet03, vGLS02]. **Polynomials** [PP03, AM01, BS06b, Boc01, DJ07, GH08, KR09, KL00b, Moo03, Pas00, SK03, dFGAN00]. **polytope** [Olv06]. **population** [BB04, GGJ03, Hac07, KW08b, KW08a]. **ports** [RVH09]. **posed** [CCP07, KS02a, LMV02, Neu00, RT06]. **posedness** [BKRT04, Usc08]. **Positive** [Gal03, dVLP06, BGP04, Bec00, BGCP05, Cao01a, Cao01b]. **positivity** [CK08]. **post** [ARPR04]. **post-process** [ARPR04]. **posteriori** [ABC03, AMN09, ABR06, BFS01, BGS02, BC04, BCD04, Bar05, BV04, BMV03, Ber02, BG09, BCR04, Bra05, CMS01, CBJ02, CS04, CMPS04, CCS05, Car05, CS06, CH07, CGJ09, CN00, CM08, FV06, GHM09, HN05, HS09b, KS02a, KV00, Kun00, LM08, LY01, LY03, LV04b, MPRS01, MN06, Max07, Moo03, NSV03, NSSV06, Noë04, Ohl01, San01, SW08, Voh08, dVNS07, Moo01]. **postprocessed** [dFGAN00]. **Potential** [HS06, DF07, Hac08, Heu01a, WO00]. **potentiels** [BBP01]. **pour** [BBP01, BMV03]. **power** [MSS02]. **powers** [Ste03b]. **pp** [TW01]. **Precise** [Tsu03]. **Preconditioned** [BGP04, BGCP05]. **preconditioner** [AG00b, Bre03, RS02]. **Preconditioners** [BN03, TGSS08, AM03, BW05, Cao06b, Cas01, CC00, CNY02, ESW02, GPW03, MW04, MW06, NCV06, OPR06, Yun03, dVLP06]. **Preconditioning** [EN05, AK04, DDP07, GKB09, HWZ06, KO00, Osw08]. **predator** [GT07]. **predator-prey** [GT07]. **predictor** [CC05]. **predictor-corrector** [CC05]. **prescribed** [DH06]. **presence** [RVH09].

Preserving

[CFM06, HMY07, AKR09, BP08, BC07b, CK08, Gal02, GT04, GR00, GLX06].
pressure [ARPR04, ABC06, BGHNR03, CC05, CB00]. **pressure-stabilized**
[CB00]. **Prewavelet** [BN01]. **prey** [GT07]. **Pricing**
[FO09, AW07, CF08, IT08]. **Primal** [Li05, BG01, HR00, MT01]. **primitive**
[GGRG05, Med01, RG04]. **principal** [Str08]. **principle**
[Jer08, JT09, LLP07, MSTZ03b]. **principles** [JU05, KK05]. **priori**
[ABC03, BCD04, CD04, FP01, Hol08, KS02a, Küt03, LY01, PW03, SKR04].
prismatic [KS01, CJK⁺05]. **Problem** [FHV03, AD01, AB03, ADM04, BV02,
BC08, BGL07, BBD06, BAL07, BBCM00, BB00, BL05, BMV03, BGHNR03,
BG09, BCH07, BCLS08, CR05, CC04, CFA06, CWRR02, Che01, Chu03,
CJK⁺05, CJK⁺06, Cop08, DSS02, DHNL⁺00, FL06, FGSn02, GM05,
GHM09, HR00, HP01, HL04b, HLS05, HXZL08, HN05, HR04b, HS05, Hol08,
Kim05a, KO00, KK00, LM00, LN04b, Mar02, MW04, Med01, Noë04, Nov01,
OR06, OPR06, RAVS07, RVH09, SW01, SU09, ST05, hW02, WO00, MW06].
problème [BMV03]. **Problems**
[BDR03, BHvPS03, CW03, SZ03, ZCW06, AG00a, AM08, AM02, AP01,
ABR06, BFS01, BNT05, BLS05a, Bak02, BG01, BC04, BR04, BV04, BM00,
BG07, Bra05, BMS00, BLN04b, BY05, BCJ09, BCGJ07, BJ00, BGG04, CP06,
Cao06a, CLRM01, CR00, CCF08, CN00, CX08, CK02, CM00, CM08, DGH09,
DI01, DV08b, DE06, Dry05, DT07, EL05, ER09, EW03, EW02, ES08, EHV06,
EFG06, FML00, FP03b, GPC05, GK02, GHL⁺05, GPW03, GS02, GNP08,
HHW00, HLPS05, HSS08b, HO09, HR04a, HTY08, Hor04, HZ02, JT09, KS02a,
Kan01, KK05, KNWN09, Koc05, Kre09, KL03, KV01, KS02c, KP01b, LW00,
LN04a, LM08, LPSV03, LLP07, LWC09, LLW03, Lin09, LS01c, Lin08, LMV02,
Liu00, LY03, LS09, Mah09, MN06, Mar01, Moo01, MNS08, NW05, Neu00].
problems
[NN06, NSV03, PW03, RXH05, RT06, RSS06, RT02, San01, ST03, SZ09, SŽ05,
Sti05, Stö01, SHS08, TT05, Tim00, Usc08, Yan02, ZR05, Zha07, dV04, BC03a].
procedure [BF01]. **procedures** [FvOP05]. **process** [ARPR04, GLRvdE05].
processes [dFL04]. **processing** [HMS03, MR01]. **product**
[CLM03, GS08, HSS08a, Usc08]. **product/quotient** [CLM03]. **products**
[Kre06]. **Programming** [CW03, BR04, DF05]. **programs**
[EK02, PK05, ZLW04]. **Projected** [DF05, Sch09]. **projection** [BC07a,
Gro09, HPS03, KS02b, Pro00, RT06, Ste01a, Ste02a, VK09, ZX02, dSB08].
projection-based [Pro00]. **projection-regularized** [KS02b].
projection-type [ZX02]. **projections** [Gri05a]. **proof** [AD07].
propagation [Yse01]. **proper** [KV01, dSB08]. **properties**
[AT03, AKR09, CLR02, Cao01b, Dai01, FL06, Gro09, Mat01, VVVM06a].
property [PW05a, Ste05]. **Pseudo** [BB08, GM06]. **pseudo-differential**
[GM06]. **Pseudo-polyharmonic** [BB08]. **pseudodifferential**
[HPS03, TGSS08]. **pseudospectral** [BLO07]. **Publisher** [Pet02].
pyramidal [KS01].

QR [BGP05, CP01b, DV05b, VVM04]. **QR-method** [VVM04]. **Quadratic** [CFM06, Mat00, Sun07, DF05, DV00, hW02]. **quadratically** [MT03]. **Quadrature** [GGL00, MCS09b, Olv06, PP03, BP01, BP03, CCP07, DGV02, DV00, DH09, FL06, Fis02, Gau05, LS08, MC04, MC06, Not06, OST07, PGL07, SL02, SS00, WT07, dICYGV07, de 05]. **quadratures** [PK05]. **quadrilateral** [Zha04]. **quantities** [Can06]. **quantum** [JL03, MST06a]. **Quasi** [EL05, LY01, YW06, Ber01, BG09, Cop08, CDLP07, WY06, DFLZ03, Maz08a]. **Quasi-least-squares** [YW06]. **quasi-linear** [BG09]. **quasi-monotone** [Ber01]. **quasi-Monte** [CDLP07]. **quasi-Newton** [WY06, DFLZ03]. **Quasi-Norm** [EL05, LY01]. **quasi-static** [Cop08]. **quasiconvex** [Mül03]. **quasilinear** [KK00]. **quasistatic** [RSWW03, SW01].

Rachford [DR03]. **Radau** [MC06]. **radial** [Joh04, PSN04, TGSS08]. **radiative** [BC07b, GT04]. **radius** [GZ01]. **rank** [DW00]. **Rate** [FvOP05, Tai03, BNZ05, CDLP07, GH04, Küg05, LZ09, LHJB07, Pam01]. **Rates** [BDD04, FH07, JKN09, LWW01, MSTZ03a, Rie01]. **Rational** [VVM09, dICYGV07, DV05a, FH07, GGL00, LSW02, PGL07, de 05]. **Raviart** [ANS01, HS09a, RXH05]. **Rayleigh** [KNWN09]. **reacting** [Pro00]. **reaction** [BCGJ07, DR03, DM04, Jer08, Lin09, Ste05, WP00, WP06]. **reaction-diffusion** [BCGJ07, DR03, DM04, Lin09, Ste05, WP00, WP06]. **reaction/diffusion** [Jer08]. **reactor** [AC01]. **real** [Bec00, CWR02, GST04, Zhe06]. **reconstruction** [DSX00, Pot04]. **recovery** [FV06, LP09b, MP02, Ova06, ZL03]. **rectangular** [EPS01]. **recurrence** [ST08, VC06]. **Recursive** [Mat01]. **reduced** [BC09]. **reduction** [AM02, CLM03, DM04]. **Reeves** [ZZL06]. **refinable** [PR01]. **refined** [AM03, WO00]. **Refinement** [CFJ03a, CFJ03b, Bey00, Zha04]. **region** [BD02, WY06]. **regularity** [ABH05, CM08, Gei07, HR00, Yse04]. **regularization** [BRZRS03, CD02, FvOP05, HPS03, KS02a, MPRS01, Zha03]. **regularizations** [LR09, Rie01]. **Regularized** [BH05b, HTY08, KS02b]. **regularizing** [CLR02]. **rehabilitation** [CD02]. **Reissner** [Lyl00, CS06]. **related** [KP01b, Med01, Ste02a, Voh08]. **relations** [ST08]. **relative** [DKM09, XY09]. **relativistic** [KQW04]. **relativity** [FNP07]. **relaxation** [BBC⁺05, BKW07, LS01b, Mül03, NP04]. **relaxed** [CP01a]. **Reliable** [BOL02, BC04]. **representations** [GST04, SS00, Wal00]. **reproducing** [Xu00]. **Residual** [BMS00, CMPS04, CS06, CN00, Voh08, BG09, EW03, GHM09, HN05, Kun00, Max07, SS08, dV08a, San01]. **Residual-based** [CMPS04, CS06, EW03, GHM09]. **Residual-free** [BMS00, San01]. **residual-type** [BG09]. **residuals** [hDxY99, KV00, Pyt02]. **resolution** [BP04, Neg08]. **response** [GT07]. **result** [Jer08, SC07]. **Results** [HS06, AD01, GJ02, SHS08]. **retarded** [BMV09]. **retardés** [BBP01]. **Reversible** [CCM04]. **revolution** [CJMR04]. **RFB** [CS05]. **Riccati** [RS02, GLX06]. **Riccati-based** [RS02]. **Richards'** [SKR04]. **Riemann** [BAL07, BKW07]. **Riesz** [SL02]. **right** [CDRG⁺07]. **right-hand**

[CDRG⁺07]. **RK** [HS08]. **Robin** [AJMN02]. **Robust** [KW06, LWC09, Lin08, San01, Ste03a]. **Robustness** [Ber02]. **Romberg** [Fis02]. **root** [Str09]. **Rosseland** [GT04]. **rot** [Lac00]. **rotation** [YW06]. **rotor** [SHS08]. **rough** [Bak02, KW06]. **Rounding** [GLRvdE05]. **Rule** [mWS05]. **rules** [But04, DSWW06, GGL00, MC06, WS08]. **Runge** [AMN09, AM02, BLV06, CJMR04, CCP07, CCM04, GPHA04, Hag00, HJL09, Hua09, LFLPS05, Mas00, Mas02, Sun07, TJ07].

Saddle

[SZ03, BGS02, BS06a, Cao06b, ESW02, HZ02, KS02b, LP08, OPR06, SZ09]. **saddle-point** [HZ02]. **satisfactory** [ST08]. **satisfying** [Bou03, FL06]. **saturation** [DN02, Ste05]. **scalar** [Bou01, CIS06, CHC01, GR04, HWW02, PW05a, Vov02]. **scale** [DF05, FMS07, GHL⁺05, RSS06]. **Scaled** [PS02b, Mat00, PS02a]. **scales** [EN05, Neu00]. **scaling** [AM03]. **Scattering** [GHNP03, CWRR02, DGS07, ER09, KM02, LS08, NW05, NN06]. **scenario** [BNT05]. **schema** [BMV03, BMV03]. **Scheme** [Ber06, AGS09, AT01, ACRM06, BC09, BC07b, BCGJ07, BKRT04, CL01, CF08, CK08, DD04, DD02, DV08b, DE06, EGHM02, EHV06, EFG06, Fil06, Fur01, HKR01, HMS03, HWW02, KP01b, LS01b, LHJB07, Lin08, Mau06, MV07, MR01, Neg08, Obe04, PM08, PT06, Pro00, RT02, zSIZ04, VV03].

Schemes

[Gal03, Ber01, Ber05, BLV06, Bor04, Bou01, BLN04b, CHC01, CC05, DGMM01, Des08, DF07, Erv09, GT04, Gro09, GR00, GK01, JV01, KMR09, KO00, KQW04, LYC03, MST06a, MM09, NW05, Vov02, WL02, Yan02]. **Schmidt** [GLRvdE05, SBL06]. **Scholes** [AW07]. **Schrödinger** [AD00, DD04, DF07, Neg08, Noë04, Sze06, Yse04, Yse05]. **Schur** [CLM07, Kre06]. **Schwarz** [AG00b, BFNS01, BDR03, Bre03, BW05, Cas01, Heu01a, Kim05b, LW00, LS09, Lui02, Nab03, RXH05, SZ03, SZ09, Tos00, TS00]. **Schwarz-type** [SZ03, SZ09]. **screen** [Heu01a]. **screens** [BC03b]. **SDFEM** [LS01c]. **search** [ZLW04, ZZL06]. **Second** [AM01, BNA07, AGS09, CC04, Cao06a, CDRG⁺07, CK08, CM00, Gri05c, Gri05b, HSS08b, Hei09, MFR03, MM07, OM01, RT02, SW00, zSIZ04, VC06, WW03]. **second-kind** [SW00]. **Second-order** [BNA07, CK08, Gri05c, Gri05b, MM07, WW03]. **section** [CWRR02]. **sectional** [KW08b, KW08a]. **secular** [BGP05]. **sedimentation** [BKRT04]. **Segel** [Fil06]. **Selecting** [WR05]. **selection** [BBO04, MPRS01]. **Self** [HPS03, HLW03]. **Self-adaptive** [HLW03]. **Self-regularization** [HPS03]. **Semi** [GGJ03, HS06, HMS03, MR01, AG00a, AdST05, BB08, Ber01, BC09, CM06, DD04, EZ08, GP03, GPHA04, GS00, KP01b, Mic02, NSSV06, PM08, SK03, TZ03]. **semi-coercive** [AG00a]. **semi-discrete** [CM06, DD04, EZ08, KP01b, Mic02]. **Semi-discretization** [GGJ03, TZ03]. **Semi-implicit** [HMS03, MR01]. **semi-infinite** [GS00]. **Semi-Iterative** [HS06, SK03]. **semi-Lagrangian** [Ber01, BC09, PM08]. **semi-linear**

[NSSV06]. **semi-norms** [BB08]. **semi-stable** [GP03, GPHA04].
Semiconvergence [Son00]. **semidefinite** [BGP04, Cao01b]. **semidiscrete**
[SW01]. **Semidiscretization** [DH04]. **semidiscretizations**
[OWW04, TW00, TW01]. **semilinear**
[CP06, CYY07, Hor04, OWW04, Tim00]. **semiseparable**
[CG04, VVM04, VVVM06a, VVVM06b]. **semismooth** [HTY08]. **Sensitivity**
[BJ00, KR09, OST07]. **separation** [BB01]. **sequence** [Fis02]. **sequences**
[Cap02, DJ07]. **serendipity** [ZK00]. **series** [FO09, Lac00]. **set**
[HMS03, HR04b, MP02]. **sets** [Obe04]. **several** [CGS06, CC05]. **shadowing**
[CKP07]. **Shah** [BC00]. **shallow** [DMC00, PMC01, VK09]. **Shape**
[AKR09, CZ03, EH06, BBO04, BS06b, SHS08]. **Sharp** [CE01]. **shell** [dV04].
shifted [DJ07]. **Shishkin** [LS01c]. **shocks** [LWW01]. **shortest**
[hDxY99, KP08, Pyt02]. **shortest-interior-edge** [KP08]. **side** [CDRG⁺07].
sided [FG02, PT06]. **Signorini** [Che01, Cop08, HN05]. **similarity**
[VVVM06a, VVVM06b]. **Simplicial** [Bey00, TW00, TW01]. **Simplification**
[SC07]. **simplified** [BCP07]. **simulation** [FMS07, HMY07, MT03, Zhe06].
simultaneous [PGL07]. **Simultaneously** [CCSS09]. **sinc** [Ber09, Gau01].
SINC- [Gau01]. **single** [Ber05, Heu01a]. **Singular** [CJK⁺05, CJK⁺06, AP05,
BH07, Cao01b, DM04, Koc05, Pot04, SK03, Son00, VVM04, Wil03, ZOS00].
singularities [Lin09, MFR03, PW05b, Sid04]. **singularly**
[BCGJ07, CX08, Lin09, Mar01, Ohl01, Ste05]. **sixth** [BLN04a]. **skew**
[BGP04]. **skew-Hermitian** [BGP04]. **Slobodeckij** [Fae02]. **Small**
[DN02, BHV03, CD04, DF07]. **Smolyak** [Pet03]. **Smooth**
[AS02, BV00, BCS02, CS03, GS02, Sid05]. **smoothed** [VBM01]. **Smoothers**
[SZ03, SZ09]. **Smoothing** [WR05, AdST07, EK02, QQ03]. **smoothing-type**
[EK02]. **Smoothness** [Gro09]. **Sobolev**
[AdST07, DR07, JLL02, Ste01a, Ste02a]. **solid** [BRS00, GHM09]. **Solution**
[Bor04, Lac00, Mah09, MSW06, Ang00, BOL02, BM00, BB00, BRS00,
BGCP05, CK07, EK02, FML00, HLPS05, HR04b, HS05, Hor04, MNS08,
SK03, Yse05, BC03a]. **solutions** [ACP02, BLN04b, DR04a, ED02, EK00,
GGJ03, GM06, JKC09, Jer08, KK05, KNWN09, Küt03, LT01, OR02, ST08].
solved [BFS01]. **solver** [BKW07, Bou01]. **Solving** [BCJ09, ACC⁺02, Chu06,
GPC05, HMS03, Hei09, JT09, KW08b, KW08a, MR01, Stö01, ZLW04]. **Some**
[XZ03, AT03, AD00, Bou07, Can06, DDP07, GPC05, GS07, JT09, LLP07,
Lyl00, Mar02, Mat01, RPK08, Ste02a, Tai03]. **SOR** [HS06]. **sound** [Yse01].
source [ABR06]. **sources** [Pot04]. **Space**
[CFA06, CFJ03a, CFJ03b, GK02, BF07, HWZ06, Moo01, RG04, TZ03, Yse07].
spaces
[AKR09, AdST07, Chr07, CM08, Da08, DSWW06, DR07, Fou09, GS08,
Gri05a, HSS08a, JLL02, Maz08a, Maz08b, Ste01a, Ste02a, Yse04, Yse05].
Sparse [HSS08b, LP09b, ST03, Yse05, GH03, HSS08a, LYZ01]. **sparsity**
[RT06]. **spatial** [OWW04, HLS05]. **spatially** [GT07]. **Spectral**
[AD00, ABC06, BLO07, Erv09, PTV03, BBCM00, Cas01, GS02, GZ01,
HLS05, HR04a]. **spectrum** [FP09]. **sphere** [AP05, GM06, Sim00, TGSS08].

spheres [BP08, Hes06, Nie02]. **Spline** [CS00b, AdST07, CS03, DV00, Gri05a, Joh00, SA07]. **splines** [AdST05, HRW02, LS01a, LP01, Mar01, vGLS02]. **splits** [AS02]. **splitting** [BGP04, Ber05, Bou01, CLL08, DM04, DF07, GGM02, HXY08, HO08, HLW03, IT08, Pro00]. **splittings** [Bou03, Cao01b, Huh07, Son00, Son02]. **SPR** [ZZ03]. **Square** [Str09, HMY07]. **Square-root** [Str09]. **Squares** [BL05, Hei09, Lin09, MKV04, PS02a, PS02b, YW06]. **stabilisation** [BF01]. **stabilised** [Buf02]. **Stability** [AG01, CX08, Chr07, Da08, ED02, HCC09, Hil06, KP08, LT01, Mas00, TW00, TW01, VK09, Chu03, GZ01, HMY07, Hua09, LX09, LV04a, Peñ02, Peñ06, PT06, SW01, Ste01a, Ste02a]. **stabilization** [Ber00, Leb02]. **Stabilized** [ES08, BV02, BV07, Ber03, CB00, Ger00, RG04]. **Stable** [Gal03, GPHA04, Ber06, BGP05, CS00a, DDH07, DDHK07, Fur01, GP03, LS01a, MT05, VC06]. **stage** [Cao01a]. **staggered** [HKR01]. **stagnation** [SS08]. **staircase** [MS00b]. **standard** [DKM09, LP09b]. **state** [ESW02, HR04b, HTY08]. **state-constrained** [HR04b]. **static** [Cop08]. **stationary** [CB00, HL04b, Neg08, Sch04]. **steady** [Cas01, ESW02, GGLV01, Jer08, YW06]. **steady-state** [ESW02]. **step** [GS07, HWW02]. **stepping** [Mau06, SW08]. **stepsize** [GZ01]. **Stiefel** [Usc08]. **Stieltjes** [PP03]. **stiff** [AG01]. **stochastic** [CK07, CYY07, CC00, DD04, Grü04, HSS08b, HK05, HMY07, IT08, JKN09, PK05, ST03, XG00]. **Stokes** [MW06, HXZL08, AGS09, ACC⁺02, AB03, ABC06, Bän01, BV02, BBD06, BBCM00, BF07, CCS05, Cas01, CC05, CS00a, CB00, DH04, DSS02, ESW02, GGLV01, HL04b, HLS05, JY09, KL00a, KO00, Kwe00, Li05, MW04, Med01, OR06, OPR06, SW03, WL02]. **Stopping** [ALW05, Ari04]. **strain** [BCR04]. **strategies** [KPS03]. **stream** [DSS02]. **stress** [AB03]. **stress-vorticity** [AB03]. **Strictly** [Kan01]. **string** [Per05]. **strongly** [AG01, GNP08]. **structure** [DM04, Gal02, GLX06, LM00, Sch09]. **structure-preserving** [Gal02, GLX06]. **structured** [HKT08]. **structures** [CS04]. **study** [CHB08]. **subdivision** [Gro09]. **subject** [CLRM01]. **subspace** [Chu03, SS05, Str09, WY06]. **subspaces** [RS02]. **substructuring** [Heu98, Heu01b, LP09a, MT01]. **successive** [BPW05]. **sufficient** [LN04b, TMO04, ZOS00]. **summability** [Vec01]. **sums** [VC01]. **sup** [BC07a, BBCM00, GS08, Leb02, MT05]. **Superapproximation** [Gri05a]. **Superconvergence** [BBO07, mWS05, FV06, WS08]. **superconvergent** [Ova06]. **Superlinearly** [AK04]. **supported** [Wal00]. **Surface** [GHNP03, Bän01]. **surfaces** [BH05a, BH07, CMS01, CMPS04, CIS06, DH06, GS02, Sid05]. **SVD** [CLM03]. **SVDs** [DK04]. **Symm** [MS00a]. **Symmetric** [HL04a, KS02c, KMS04, Cao01a, Cao01b, CG04, LPSV03, MNS08, VVVM06b, VV03]. **symmetry** [ZL03]. **Symm's** [CMS01]. **symplectic** [BLV06, Hai03, HS08, MM09, MR03]. **symplecticity** [Sun07]. **synthesis** [BNA07]. **system** [BC09, BQR05, DMC00, GJ02, Hag00, Kwe00, LZ09, PM08, PS09b, YW06, dSB08]. **Systems** [HSZ06, BN03, BGP04, BPW05, BOL02, BGCP05, Ber05, Bor04, BRZRS03,

Cao01a, CNY02, CLM05, DR03, DM04, Des01, Erv09, EMAS01, GR04, GP03, GPHA04, GK01, Jer08, KMR09, LS01b, Mas02, PC09, SS00, SK03, VV03, WP06, ZOS00]. **Szeg** [KR09]. **Szego** [Not06].

Tadmor [PT06]. **Tangent** [MZ01, Sim00]. **Taylor** [BJ00, EvP04]. **Tchebycheff** [CLM05]. **technique** [KW08b, KW08a, PR01, ZZ03]. **techniques** [BC04, BRZRS03]. **temperature** [TT05]. **temperature-dependent** [TT05]. **tension** [Mar01]. **tensor** [HSS08a, Usc08]. **tent** [CDLP07]. **term** [LP09a, RAVS07]. **termination** [QQ03, ZX02]. **terms** [ABR06]. **tests** [BFLW09]. **tetrahedra** [KP08]. **tetrahedral** [KV00, Kun00]. **their** [Gro09, GLRS09]. **theorem** [BGM01]. **theorems** [Son02, Tsu03]. **Theoretical** [LS08, AD01, BKW07]. **theories** [XZ03]. **Theory** [BB06b, HS06, AG00a, AX02, BFNS01, BMVX07, BLN04b, Car05, CH07, CGJ09, Fou09, GHS00b, Kim05b, LR09, XG00]. **thermal** [TT05]. **thermoviscoelastic** [Cop08]. **Theta** [Bor04]. **Theta-schemes** [Bor04]. **thickener** [BKRT04]. **thin** [GR00, Joh00]. **thin-plate** [Joh00]. **third** [KP01b]. **third-order** [KP01b]. **three** [AG00b, Ber03, BH03c, Fae02, GS07, HHW00, Heu98, Heu01b, Tos00, TS03]. **three-dimensional** [BH03c, Fae02]. **three-fields** [Ber03]. **three-step** [GS07]. **Tight** [LP01]. **Tikhonov** [LP09b, MPRS01, RT06]. **Tikhonov-based** [RT06]. **Time** [MST06b, WP06, ZCW06, AGS09, Bar05, BCP07, BCGJ07, BF07, CCC⁺05, CFA06, CFJ03a, CFJ03b, DY09, DF07, GGJ03, GK02, HL04b, HPSS05, HWW02, MST06a, MW04, MW06, Mau06, Pro00, RG04, SW08, SW01, TZ03, Zha03]. **Time-delayed** [WP06]. **Time-dependent** [ZCW06, AGS09, Bar05, BCP07, BF07, Zha03]. **time-discretized** [MST06a]. **time-harmonic** [HPSS05]. **time-splitting** [Pro00]. **time-stepping** [Mau06, SW08]. **times** [HL04a]. **Tocher** [AS02, LS01a]. **Todd** [Bau07]. **Toeplitz** [BN03, BGM01, Cap02, CNY02, LZ09, NCV06, SC07, dFP05]. **Toeplitz-like-plus-diagonal** [BN03]. **tomographic** [RS07]. **tomography** [BHV03, RS04]. **topological** [BFLW09, SZ05]. **torus** [SA07]. **Total** [PW05a, FvOP05, PS02a, PS02b]. **tracking** [Str09]. **transfer** [BB00, BC07b, GT04, YW06]. **transform** [HS05, SL02]. **transformation** [CDLP07, Li01, MST06b, Sid05, VVVM06b]. **transformations** [VVVM06a]. **transformed** [CCSS09, Hag00]. **Transmission** [BHvPS03, BG01, BGG04]. **transport** [Des08]. **Transversal** [CKP07]. **Trapezoidal** [mWS05]. **trapping** [Jer08]. **tree** [BD04, LHJB07]. **trial** [ST05]. **triangle** [AS02]. **triangles** [MT05]. **triangular** [BS06b, KMR09, KV00, Lyl00]. **triangulations** [LS01a]. **tridiagonal** [FP09, LZ09, Tsu03, VVVM06a, dFP05]. **trigonometric** [MCS09b]. **trust** [WY06]. **tuning** [KPS03]. **turbulent** [BRM⁺04]. **turning** [TMO04, WW03]. **Two** [BG07, BW05, BW04, FMS07, HZ02, LM05, RSS06, AGS09, Bab00, BGS02, BBC⁺05, BRM⁺04, Bou01, BCLS08, Cao01a, Cap02, CWRR02, CE01, ER09, FML00, GHM09, GH04, HKR01, McS09a, Mar01, Moo01, Put02, ST05].

Two-Dimensional [LM05, BCLS08, ER09, GHM09, HKR01, ST05].
two-fold [BGS02]. **Two-frequency** [BW04]. **Two-grid**
 [BG07, AGS09, Cap02, CWRR02]. **Two-level** [BW05, FML00]. **two-phase**
 [BBC⁺05, CE01]. **two-point** [Mar01, Moo01]. **Two-scale** [FMS07, RSS06].
two-stage [Cao01a]. **type**
 [AKK⁺08, ANS01, Bar05, BG09, CCM04, CN00, CLM03, Da08, DV00, EK02,
 Gal03, GT07, Gri05b, HN05, JT09, KO00, MFR03, MST06b, Med01, McS02,
 Not06, SZ03, SZ09, WcSX07, Xia07, ZX02, ZZL06, Gri05c].

Ulm [EH08]. **Ultraconvergence** [ZL03]. **unbounded** [BH03a].
uncertainties [BC03a]. **uncertainty** [BNT05]. **unconstrained**
 [DFLZ03, PC09, WY06]. **Uniform**
 [BCR04, MW04, MW06, Mic02, OPR06, TZ03, WW02, dV04, Ste05].
uniformly [BCGJ07]. **unifying** [Car05, CH07, CGJ09]. **unilateral** [AG00a].
Uniqueness [BP03, MC04]. **unit** [DGV02, Joh00, SL02, dICYGV07]. **units**
 [BKRT04]. **unity** [DDP07]. **univariate** [Gro09, Peñ02, Peñ06, PR01].
unknown [HXY08, PW05b]. **unsteady** [WL02]. **unstructured**
 [HKR01, HCC09, KMS04, LYC03, SPSF00]. **unusual** [BV02]. **Updating**
 [Str08]. **Upper** [PS00, Bab00]. **upscaling** [DY09]. **upwind** [CK08]. **use**
 [Lac00]. **using** [BV07, BS06b, CDLP07, Fis02, GH⁺05, HLPS05, HS05,
 Kim05b, LLW03, Mar01, NTW01, PS02a, San04, SS00]. **Uzawa**
 [HZ02, KO00, NP04].

validation [ACP02]. **value** [AM02, ADM04, Cao06a, GNP08, HHW00,
 Koc05, KL03, KS02c, LW00, Mar01, Moo01, Stö01, BC03a]. **valued** [Bak02].
values [BMV09, MP02, VVM04]. **Vandermonde** [Bec00, EPS01]. **Variable**
 [BLM05, CF08, DH06, GZ01, Sid05]. **variables** [CGS06, Put02]. **variants**
 [HZ02]. **variation** [FvOP05]. **variational**
 [AP01, BGN08, BR04, CLRM01, CR00, CCF08, GPC05, HXY08, HLW03,
 KS02b, Kor02, KK00, KS07, MSTZ03b, Mü03, PC09, Sim00, Tai03]. **various**
 [GJ02]. **vector** [AP01, Ber05, Bou03]. **vectorial** [BB08]. **vectors** [DV05a].
velocity [ABC06, Deu09]. **verification** [KNWN09, OR02, TMO04]. **version**
 [AG00b, Bab00, BH05a, BH07, CS00a, GH04, Heu98, Heu01a, Heu01b, KS07,
 SW08, TS00]. **vertex** [CK02]. **vertex-centered** [CK02]. **via**
 [AK04, GMZ02, HS08, MST06b, PK05, TZ03, VVM04, WW02]. **vibration**
 [DHNL⁺00]. **vibrations** [BRS00]. **virtual** [GLQ01]. **viscoelastic**
 [AB03, BCP07, RAVS07]. **viscoelasticity** [RSWW03, SW01]. **Viscoplastic**
 [FHV03, FGSn02]. **viscosity** [BLN04b, TZ03]. **Vlasov** [BC09, PM08].
volatility [IT08]. **Volterra** [Da08, SW00, SW01, Vec01]. **volume**
 [AJMN02, ABC03, ABH05, AW07, BMV03, BG07, BG09, CHC01, Des08,
 DE06, EGHM02, EHV06, EFG06, Fil06, HCC09, HMS03, KMR09, Kim05a,
 MV07, MR01, NAE07, Ohl01, VV03, Voh08, Vov02].
volume-nonconforming [EHV06]. **volume-nonconforming/
 mixed-hybrid** [EHV06]. **volumes** [BMV03]. **vorticity**

[AB03, ABC06, DSS02, Gal02, WL02].

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