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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]. $H_0(\mathbf{curl}; \omega)$
[HWZ06]. $H\mathcal{H}$ [GKB09]. ILU [Yun03]. $\int_a^b f(x)e^{i\omega g(x)}\,dx$ [Xia07]. $J_\nu(\nu a)$
[WW02]. k [ZOS00, dFP05]. L^1 [Ber06, CDRG$^+$07, GP08, LT01]. L^2
[MSS02, McS02]. L^8 [BH03b]. L_2 [Ste01a, Ste02a]. L_p [Gei07]. $L_p(0, T)$
[SW01]. M [Bou07]. $M(a, b, x)$ [Mul01]. $\mathbf{R}^3$ [Nov01, GS02]. $\mathcal{V}^\star_{b,g}(\ker(C))$
[Chu03]. p
[AG00b, ABH05, Bab00, BP08, BH05a, BH07, BS06b, CS00a, EL05, GH04,
Heu98, Heu01a, Heu01b, Kim05a, KS07, LY01, MBS00, TS00, XG00]. P_1
[Osw08]. Ψ [ZCW06]. Q_1 [AM06]. QR [VVM09, CLM03]. $\mathbf{R}^2$ [BG01]. R^3

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[Sid05]. $\sin(z)$ [VC01]. θ [AG01]. V [AD07]. $W^{1,p}$ [AM06]. $W^{2,\infty}$ [AdST05]. ZZ [ZL03].

-adaptive [CMS01]. **-Approximations** [MSS02]. **-coefficients** [BH03b]. **-continuous** [FG02]. **-cycle** [AD07]. **-cyclic** [XG00]. **-d** [EZ08, CM06, CFJ03a, CFJ03b, Mic02]. **-dimensional** [KNWN09]. **-FEM** [BS06b, MBS00]. **-harmonic** [BP08]. **-iteration** [VVM09]. **-Laplacian** [ABH05, EL05, Kim05a, LY01]. **-LU** [GKB09]. **-matrices** [Bou07]. **-Matrix** [GHK02, BH03b]. **-method** [AG01]. **-minimization** [GP08]. **-node** [ZK00]. **-semi-norms** [AdST05]. **-sided** [FG02]. **-spline** [AdST07]. **-splines** [AdST05]. **-Stability** [LT01]. **-stable** [Ber06]. **-tetrahedra** [KP08]. **-Toeplitz** [dFP05]. **-type** [CLM03]. **-version** [AG00b, Bab00, BH05a, BH07, GH04, Heu98, Heu01a, Heu01b, KS07, TS00].

2 [AD01, CCM04].

389 [TW01]. **396** [Heu01b]. **3D** [GHS00a, KK00].

79 [Heu01b].

a-posteriori [BGS02]. **ABS** [EMAS01]. **Absorbing** [Sze06, LMV02]. **abstract** [BM00]. **acceleration** [Mat01]. **Accuracy** [HJL09, AGS09, CX08, DKM09, LYZ01, McS09a, NTW01]. **Accurate** [ARPR04, DK04, Pas00, Mar01, MM07, zSlZ04]. **acoustic** [CWRR02, DGS07, HR04a, LS08, NW05]. **action** [RS04]. **actions** [CHL08]. **active** [ZLW04]. **adapted** [CX08]. **Adaption** [PW05b]. **Adaptive** [BV00, BDD04, CCF08, DRSZ08, HKS07, ZCW06, BDS07, BC08, BM08, BD04, BC00, BCH07, BQR05, CMS01, CCS05, CH06, CFA06, CM00, DSX00, DXZ08, Fae02, Grü04, HLW03, MPRS01, MSTZ03a, MSTZ03b, Moo03, PM08, Vee02, Wil03]. **Adaptivity** [Moo03]. **added** [BRS00]. **Additive** [BDR03, Heu01a, RXH05, TS00, AG00b, Bre03, BW05, Nab03]. **adiabatic** [JL03]. **adjoint** [Hag00]. **admissibility** [Erv09]. **advection** [Ber01, BMS00, San01, San04]. **advection-diffusion** [BMS00, San01, San04]. **affine** [Zha04]. **affinely** [GK01]. **after** [Can06]. **aggregation** [VBM01]. **algebra** [AB02, Boc01, DDH07, Boc01]. **Algebraic** [BFNS01, BCD05, CFM06, GLX06, KS02c, KMS04, Stö01, VBM01]. **algebras** [AD07, DFLZ03]. **algorithm** [ACC$^+$02, AD01, AKK$^+$08, Ari04, Bey00, BHV03, CMS01, CFA06, CG04, Dry05, FP09, GL05, GLX06, Hor04, Kim05b, Kre06, MNS08, MS00b, Nie02, PCM02, Per05, RS07, Tim00, ZLW04]. **Algorithms** [BB06b, BGP05, BH03c, CC04, CK02, CDLP07, EMAS01, HXZL08, HZ02, JJL02, TS00]. **Allen** [FP03a]. **Allometry** [Fou09]. **allow** [LP08]. **allows** [PW05b]. **alloy** [BB01]. **Almost** [LPSV03, Chu03]. **alternating** [BCGJ07]. **alternative** [Peñ03]. **American** [AW07, IT08, LHJB07, dFL04]. **analogues** [Gro09]. **analyses**

[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, Küg05, 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, Küt03, 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, Noë04]. **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,
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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**
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[PCM02]. **Bermúdez-Moreno** [PCM02]. **Bernstein** [AKR09, Not06].
Berrut [Gau01]. **Besov** [ABH05]. **Bessel** [Pas00]. **best**
[CNY02, DQQ01, QQ03]. **between** [Lyl00, Nab03]. **BGK** [Bou03].
bidiagonal [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].
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[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,
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[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** [JJL02]. **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, dlCYGV07]. **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**

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[NN06]. **Dual** [LSW05, CCS05, LP09a, MT01, QQ03, Li05]. **dual-mixed**
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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,
Kun00, 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, zSlZ04,
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,

feasible [Kan01]. **Fejér** [WT07]. **FEM**
[BC07a, Ber02, BS06b, CGJ09, EH06, GM05, HPPS02, MBS00]. **FEM-BEM**
[HPPS02]. **FETI** [Bre03, Li05, PS09a]. **few** [Pet03]. **fictitious**
[CK07, GGLV01]. **Field** [BH05b, BRS05, BC03b, Noë04]. **fields** [Ber03].
filling [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$^+$07, CHC01, CZ03, DGH09, Des08, Deu09, DHNL$^+$00, DH06, GT07,
GHL$^+$05, HR04a, KK00, LSW05, Liu00, QQ03, WP00, mWS05, ZCW06,
dV08a, AT01, AJMN02, ABC03, ARPR04, AD01, ABH05, Ang00, AW07,
ANS01, Ari04, ALW05, AW02, Bab00, BBO07, BNZ05, BH03a, BV02, BB01,
BGS02, BC04, BCD04, BC08, BP08, BV04, BV07, BM08, BBD06, BL05,
BMV03, BRS00, BV00, BRM$^+$04, BLS$^+$05b, Ber09, BG07, BG09, BCG06,
BC00, BCR04, BCH07, BCLS08, BF01, BCJ09, BF07, BGG04, Cao06a,
CP01a, CBJ02, CD04, CCS05, Car05, CH06, CS06, CH07, CM06, CWRR02,
CX08, Chr07, CB00, CD02, DXZ08, DI01, DE06, EL05, EW02, Erv09,
EGHM02, EHV06]. **finite** [EFG06, FP04, FvOP05, FNP07, FMDH03, Fil06,
Fou09, Fur01, GGM02, Gei07, Ger00, GH03, GGRG05, GLRS09, HCC09,
HLPS05, HP01, HMMC04, HXZL08, HO09, Hol08, Jer08, JV01, JU05, KK05,
KMR09, KL00a, Kim05a, KM02, KS01, KS07, KV00, Kun00, Lac00, LRW06,
LM08, Ley04, LLW03, LYZ01, Lin09, Lin08, LSY09, LV04b, MP02, MT05,
MV07, MR01, Moo03, Neg03, Neg08, Nie02, Ohl01, Osw08, PS00, RPK08,
RXH05, RSS06, RSWW03, RT02, SKR04, Sch04, ST03, Ste02b, TT05, TW00,
TW01, TS03, Tsu03, Vee02, VV03, Voh08, Vov02, WL02, hW02, WLJ04,
WP06, Wil03, WS08, Yan02, YW06, ZK00, ZX02, Zha04, ZZ03, dVLM09].
finite-dimensional [Fou09]. **finite-element** [BC00, Hol08]. **finite-infinite**
[DI01]. **finite-part** [WS08]. **finite-volume** [BMV03, HCC09]. **First**
[Ber09, BC07a, Pro00, VV03]. **fit** [Nie02]. **fitted** [AW07]. **fitting** [MKV04].
fixed [Chu03, KW08a, MFR03]. **Fletcher** [ZZL06]. **flow**
[BP08, BBC$^+$05, Ber02, BCP07, CR05, CE01, CS00a, DD02, Deu09, Dzi08,
FvOP05, FNP07, SW03, Yan02, YW06, Zha03]. **flows**
[BC07a, FP03a, JY09, Pro00, VK09]. **fluctuation** [Bou01].
fluctuation-splitting [Bou01]. **fluid**
[BB00, BRS00, DHNL$^+$00, GHM09, LM00, Zha03, dSB08]. **fluid-solid**
[BRS00]. **fluid-structure** [LM00]. **fluids** [BRM$^+$04, Yse01]. **flux**
[Ber05, Bou03, KW06, LSY09, Voh08]. **flux-based** [Voh08]. **Fock** [MT03].
fold [BGS02]. **Forchheimer** [GW08]. **form**
[CDRG$^+$07, CLM07, DF07, PMC01, VVVM06a]. **forms** [Chr07]. **formula**
[Ber09, BD01, BP01, BP03, MC04, Tsu03]. **formulae**
[DST05, Gau01, MCS09b, Not06, Xu00, dlCYGV07, 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, zSlZ04, 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**

microstructure [BP04]. **microstructures** [Li01]. **midrange** [Nie02]. **mild**
[EH08]. **mimetic** [BLS⁺05b, LSY09, dVLM09, dV08a]. **Mindlin**
[CS06, Lyl00]. **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]. **mixed-hybrid** [EHV06].
mobility [BB01]. **model** [AB03, BB01, BB04, BRS05, BRM⁺04, CHB08,
Fil06, GGJ03, GW08, HP01, Neg03]. **Modelling** [SŻ05, 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, BBCM00, 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, zSlZ04, 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].
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, CWRR02, 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, dlCYGV07]. **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, SŻ05,
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, dlCYGV07, 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]. **quotient** [CLM03].

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, dlCYGV07, DV05a, FH07, GGL00, LSW02, PGL07, de 05]. **Raviart** [ANS01, HS09a, RXH05]. **Rayleigh** [KNWN09]. **reacting** [Pro00]. **reaction** [BCGJ07, DR03, DM04, Jer08, Lin09, Lin08, Ste05, WP00, WP06]. **reaction-diffusion** [BCGJ07, DR03, DM04, Lin09, Ste05, WP00, WP06]. **reaction/diffusion** [Jer08]. **reactor** [AC01]. **real** [Bec00, CWRR02, 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$^+$05, RSS06]. **Scaled** [PS02b, Mat00, PS02a]. **scales**
[EN05, Neu00]. **scaling** [AM03]. **Scattering**
[GHNP03, CWRR02, DGS07, ER09, KM02, LS08, NW05, NN06]. **scenario**
[BNT05]. **schema** [BMV03, BMV03]. **Scheme**
[Ber06, AGS09, AT01, ACMR06, BC09, BC07b, BCGJ07, BKRT04, CL01,
CF08, CK08, DD04, DD02, DV08b, DE06, EGHM02, EHV06, EFG06, Fil06,
Fur01, HKR01, HMS03, HWW02, KP01b, LS01b, LHJB07, Lin08, Mau06,
MV07, MR01, Neg08, Obe04, PM08, PT06, Pro00, RT02, zSlZ04, VV03].
Schemes
[Gal03, Ber01, Ber05, BLV06, Bor04, Bou01, BLN04b, CHC01, CC05,
DGMM01, Des08, DF07, Erv09, GT04, Gro09, GR00, GK01, JV01, KMR09,
KO00, KQW04, LYC03, MST06a, MM09, NW05, Vov02, WL02, Yan02].
Schmidt [GLRvdE05, SBL06]. **Scholes** [AW07]. **Schrödinger**
[AD00, DD04, DF07, Neg08, Noë04, Sze06, Yse04, Yse05]. **Schur**
[CLM07, Kre06]. **Schwarz**
[AG00b, BFNS01, BDR03, Bre03, BW05, Cas01, Heu01a, Kim05b, LW00,
LS09, Lui02, Nab03, RXH05, SZ03, SZ09, Tos00, TS00]. **Schwarz-type**
[SZ03, SZ09]. **screen** [Heu01a]. **screens** [BC03b]. **SDFEM** [LS01c]. **search**
[ZLW04, ZZL06]. **Second** [AM01, BNA07, AGS09, CC04, Cao06a, CDRG$^+$07,
CK08, CM00, Gri05c, Gri05b, HSS08b, Hei09, Mar01, MFR03, MM07, OM01,
RT02, SW00, zSlZ04, 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**
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