Title word cross-reference

\(-1,1\) [DMN12]. 1 [RS11]. 2 [HOR17a, TWW15]. 2/3 [BT15]. 3 [BKW10, CCZ13, LCH12]. 5 [BKW10]. \(\alpha\) [ABC15]. \(B\) [BCM17, MMMKV16]. \(C^0\) [BNRS17, CCQ13, SH18, DLT12]. \(C^\infty\) [Mat13]. \(\delta\) [YS13]. \(H\) [BPZ12, FKS18, FLOP10, dVBRs11]. \(H(\text{curl};\Omega)\) [HLZ12]. \(H(\text{div})\) [dVBM16]. \(H(\text{curl})\) [dVBM16]. \(H(\text{curl}, \text{div})\) [DLT13]. \(h/2\) [FLOP10]. \(H^1\) [BY14, LC14]. \(H^2H^2\) [Bör10]. \(H^2\) [LMeS17]. \(hp\) [BDGQ12, HM13, dVCMR18]. \(k\) [dVBRs11]. \(L\) [Pru14]. \(L^2\) [Har18, LC14, Mak18, NW18]. \(L^\infty\) [Hac13, LC14, CC10b]. \(L^p\) [Li15]. \(L_2\) [BY14, DS11]. \(L_p\) [BLM11a]. \(M\) [JLL15, XL17]. \(\mathbf{hp}\) [CNSV17]. \(\mathbf{LP}\) [CM18]. \(\mathcal{H}\) [DHS17, FMP15]. \(n = 5\) [HJZ14]. \(\nabla \cdot B = 0\) [HMX17]. \(p\) [EGLTP17, dVBRs11]. \(P_1\) [LL10]. \(r\) [Dic12]. \(S^2\) [BD12b]. \(T\) [CC13, CFL11]. \(\theta\) [GAB13]. \(H(\text{div})^*\) [CPS16]. \(W\) [LV13]. \(W^{1,p}\) [Mir12].

- **AFEM** [CNSV17]. - **BEM** [HM13]. - **coercivity** [CC13]. - **conforming**
Beavers [CGHW11]. Bellman [BMZ10, SS16]. BEM
[HM13, Ball12, BBSV13, BGIS17, BN16, FFKP15, GHS12, OB17, Wei11].
BEM-based [Wei11]. BEM-FEM [GHS12]. bending
[Bar13b, Zha16a, dVM11]. Benjamin [BMGN18, DHKR16]. Bernoulli
[Kre17]. Bernstein [Kir11, KT12, Kir17, PS16]. Bessel [Hor17b], best
[BY15, BO17]. between [CMR18, Fer13b, HU17, Jun15]. Bézout [NNT15].
BGK [ADBN16]. bidiagonal [Bar13a]. bidomain [Zam13]. Bielak
[GHS12]. bifurcations [Chá11, HJNS17], biharmonic [CG14, PS13]. binary
[YBTB14]. Bingham [CRS16]. biology [GT14]. bioluminescence
[GWCH10]. Biot [AKY18]. Birkhoff [FGP10a, FGP10b]. bisection
[CNX12]. Bivariate [EBK16, Che12, NNT15]. blended [LOS16].
blending [OLOV18]. Block
[DLPV18, BLM11a, BS13, Hac16, Har15, LZ15, OYV17]. block-Jacobi
[OYV17], block-structured [Hac16]. blow [Cho18, HW18, ZS17]. blow-up
[Cho18, HW18, ZS17]. Bona [BMGN18]. both [HHS15, HM16]. bound
[GMÖ18, HJHA17, Ste14, VGG14, Adc10, ABK13, BIM11, BMGN18,
CHT17, CWLHT15, CS14, DU15, EÖ17, Era15, EOS17, FM18, FGH16,
FGHP17, FL15, FH17, Gan13, HQ12, HT18, HK17, JLL13b, JSW18, KOZ16,
Kre17, LA11, LJS18, Mas16, OS14, OPS15, SV13, Say13, SH17, SW11b,
ST18, ZZ15, vYS14]. boundary-driven [FH17]. bounded
[Che12, KR16, MOR17, Wen10]. bounds [AV11, BBU17, BKUV17, CG14,
DS16, FGL14, Har18, HHS15, LN15, PS16, SB13a, SB13b, XCW10]. box
[PT10]. branches [GL11]. Brent [WG13]. Brinkman
[AMORB16, GGM14, GKS13, LDQ11]. Bubble [BS10, GN14]. Buchholz
[LT10]. build [Maz11a]. bulk [BHLZ16]. bulk-surface [BHLZ16]. Burgers
[LP15].
c [Dic12]. Cahn
[BM11, CC517, CHW17, CP14, DWW17, ER15, GL11, GW14, LCW17].
calculation [Hor17b]. calculations [Eng14]. calculus [Ch11, EHR12].
canonical [EH12]. capillary [KP17]. capturing [HM14]. cardiac [Zam13].
Carlo [BSZ11, BC15a, BD12b, GKS13, GKN15, HANT16, HM16,
PGW18, TSG13], case [ABER10]. Cauchy [BR11]. cbc [Dic12]. CCC
[BR17]. cell [CCP13, Era15, YY14]. cell-centered [CCP13, Era15]. cells
[HJHA17]. centered [CCP13, Era15, ZZ15]. Central [CLK14].
Central-upwind [CKL14]. certain [Smy10]. chain [MOS11]. changing
[CC13, DCC18]. channel [CHT17]. characteristics [SWS16]. Chebyshev
[Mas14, Maz11b, XCW10]. Chebyshevian [Maz11a]. chemistry [BCS14a].
circle [HJT14]. Circulant [GKN18]. clarifier [BKT10].
clarifier-thickener [BKTT10]. class
[BMN11, BBI3, BBC18, CWWHT15, DD16, NVPZ10, RS11, Ven11]. classes
[HTSMM10]. classical [AN18, BS13, CG17, SX15a]. classification [JO10].
Clenshaw [HS15]. closed [BGN12, BEG14]. clouds [DM14]. clusters
co [DL11]. \textit{co-dimension} [DL11]. \textit{coarse} [SDH+14].
\textit{coefficient} [HQ12, LS18]. \textit{coefficients} [AY18, BD11, BSZ11, CC13, DCC18, GKN+15, GKN+18, mHZZ17, Ise11, Li15, LMR16, SS18, SS16, TSGU13, TWZ17]. coercivity [CC13].
\textit{Collocation} [ST18, AR16, LSW12, Lui17, MNT13, Nak17]. \textit{combined} [SS15]. \textit{common} [NNT15]. \textit{compactly} [SV13]. \textit{companion} [VVVF10].
\textit{comparison} [BD12a, BHK10, LM15]. \textit{complementarity} [GAB13].
\textit{computations} [DK11, NP15]. \textit{Computing} [ACWL14, NNT15, Seg13, ZLL+12, BL13b, EMB10, GG12, JLL15, MV15].
\textit{condition} [CGWH11, DP16, HKK12, JL13a, KdS18, KOZ16, Nak12, PZ18].
\textit{conditional} [Fuk13]. \textit{conditions} [AHR14, ABK13, BMGN18, DU15, HW11, LA11, LJS18, vyKS14].
\textit{conductivity} [HKQ18, PC13]. \textit{cone} [GS13, KdS18]. \textit{cone-constrained} [GS13]. \textit{cones} [Mir16]. \textit{confinement} [GY12]. \textit{conformal} [KPR14].
\textit{Conforming} [Wac17, DO17, GN14, KK15b, SZ13, dVBMR16]. \textit{conjecture} [HJZ14]. \textit{conjugate} [EGLTP17, PT10]. \textit{connection} [Jun15]. \textit{consecutive} [Dri12]. \textit{conservation} [AGS10, BBC+18, BG16, BKT10, GM14, HM14, MR17, Tow18].
\textit{Constrained} [Str15, AGS10, ABC15, CQR16, CHL13, GS13, GMT11, PG17, SG11].
\textit{constraint} [Owe16]. \textit{constraints} [EMB10, FLMP12, HHYY14, NW18, OW11, PT10, RW12, dHQ15].
\textit{Constructing} [BV12, HHS15]. \textit{Construction} [DGSY17, BD11, DL11].
\textit{contact} [BK12, BGIS17, CMR18, DH17, HR10, KSD10, KSD11, Kla15, WHC14].
\textit{contact-stabilized} [KSD11, Kla15]. \textit{Continuation} [BEK11, Bel11].
\textit{Continuous} [HW18, LL12, BRK17, CC13, DLT13, Li15, YBTB14].
\textit{continuum} [Cal17, LOSV16, MOS11, OLOV18]. \textit{control} [AORS17, BM11, CQR16, DD16, GD17, HFL12, JSW18, KK15a, KSD11, LV13, NV12, OPS15, OW11, RW12, SG11, SA10, Tak15]. \textit{controllability} [BHL11]. \textit{controlling} [DS11, Dem16]. \textit{controls} [CHW12]. \textit{convection} [ABH13, BBFP18, BBK17, BS12, BC12, CJ14, FKNP11, FH17, HJT14, KKR12, LHQ14, TWW15]. \textit{convection-diffusion} [BBFP18, BBK17, BS12, BC12, CJ14, FKNP11, HJT14, KKR12].
\textit{convection-reaction-diffusion} [ABH13]. \textit{Convergence} [AG10, BBD16, BC15a, BMZ10, BDS13, CNSV17, CPB17, CXH10, CS12,
Convergent [CR12, AKST14, ABAC16, CLM15, FLS10, GWW14, Kar13, KL17, Sch16].

Convex [CLMS18, DKS13, HHR11, EØ17, FN12, FLMP12, GNS15, GWW14, HHYY14, JZ14, JY16, LMSS17, Mir16, Wac17].

convex-nonconvex [LMSS17].

convexity [EMB10].

convolution [BBSV13, BLM11b, Hac11, LFS16].

corner [dVCMR18].
dynamics [BGN16, CCM12, DGBL+15, FS17, NDL14, TW15, ZS12].


electronic [KY12, SY17]. electrorheological [BBD16]. element [AV12, AH14, AORS17, AKST14, AP11, ABB15, BBL11, BPS10, BY14, BBK17, Bar13b, BH10, BGJ18, BDG+18, BBD16, BPZ12, BHLZ16, BO18, CGPS17, CGH13, CGMM14, CPS16, CSW16, CPB17, CWHLT15, CXH10, CW12, CH18, CHH18, CCESS16, DS11, Dem16, Dem17, DCC18, DWW17, DK13, DU15, DO17, DSX16, DLT13, E017, ER18, ER15, Era15, EOS17, FM18, FGH+16, FGHP17, Gan13, GT14, GGM14, GG12, GGY14, GKSS13, GY17, GKN+15, GGRG15, HK12, HT18, HR10, HLZ12, HX12, HHS15, HMX17, HH11, JP13, KOZ16, KK15a, KS18b, Kir11, KT12, KK15c, LM11, LV17, LA11, LM12, LMY18, LLY15, LCCW17, LMR16, LL10, LHH14, Mak18, MS13, Mat13, Nei10, NV12, OS14, OPS15, OR10, PS13, PCI3, QRB11, SS15, SG…12, SZ13, SS16, SW11b]. element [Ste14, Ste10, Wac17, WX12, WXY12, ZBB14, Zha16b, ZRK16, dVBM16, dVMRR17, dVCRR18, BSZ11].

DES11, DS18c, DHKR16, ER18, ER15, FS14, FL15, GL11, GGS15, GMÖ+18, GHI4b, GWW14, HT18, HS17, JMI18, KK15a, KS11a, Kre17, LL12, LP15, MP18b, MNT13, Nei10, OS14, PSV10, PT12, Pie18, SW11b, VGG14, ZS14].

**equations** [AL15, AL17, AR16, AR12, BZ17, BBK17, BM11, BGGH16, BR13, BDKS18, BDLM18, BC12, BMP10, BMZ10, Bör10, BGHL14, BHL11, BV14, BC17, CCP13, CG17, CP18, CHW12, CCFM17, CMMV14, CCLM15, CLM17, CQR16, CKL14, CDKL18, CH12, CJ14, CS12, CLM15, DD16, DU15, DL15, DE16, DLT12, FGHP17, FH17, GY12, GLS17, Git14, GKL15, HHSN16, HHH16, He13, HOR17a, HJS15, HP17, HPS18, HKT14, HJT14, HXX16, HJNS17, HS18, HV12, JLZ18, KKR12, Kar13, KOZ16, KS18b, KKN14, KK15c, KL17, KL18b, LA11, LCH12, LC14, Li15, LS16, LL10, MP18a, Man15a, Mas16, MOR17, Nak17, NvPZ10, PS13, Pet12, PT14, PCC18, Pru14, Ren17, RS11, RE14, Rus10, SV13, Say13, Sch10, SH17, SSS16, SWS16, SS16, SV12, ST18, SA10, St110].

**equations** [TT15, Ver17, Ver10, WZ10, Wan12, WMS10, ZX10, XXL12b, XXL12a, XL17, YS13, ZT12, ZS12].

**equidistant** [BDHK12].

**equilibration** [CM13].

**equilibria** [GL11].

**equivariant** [MMMKV16].

**ergodic** [HY15].

**Error** [ABC15, BCS14a, BM11, BRK17, BL13b, CCS17, CDNP16, CD11, CC15, DS16, DD16, GGGS11, HS15, HP17, HPS18, LCWW17, LL10, OMS13, SZ13, XCW10, ZS14, AV12, AV11, AMN11, AMORB16, BLM11a, BB12, BDL18, BKN13, BM17, BKUV17, CCM12, CGPS17, CM13, CGH13, CPS16, Che12, CS17, CM18, CJ14, DS18c, DK16a, DWW17, DSX16, FLOP10, GGMO16, GM14, GMT11, HR12, HSV12, Har18, HZZ18, KKR12, KK15a, Kla15, Kop17, KVV15, LM11, LL10, LO14, LMY18, LN18, LM13, LJS18, MOS11, NV12, NW18, NvPZ10, OW11, PS16, RW12, RH13, ST16, SWS16, TT15, WX12, We11, YS13, ZS17, ZVKG11].

**errors** [DS11, Dem16, DLPV18, FGH+16, MdC17, PSV18].

**estimate** [HS15, KKR12, LL10, We11].

**estimates** [AV12, AMN11, BCS14a, CCM12, CCS17, CGPS17, CGH13, CD11, CC15, CHTV18, Che12, CM18, CJ14, DD16, DK16a, DWW17, GGMO16, CNS15, GGGS11, Hac16, HZZ18, KKN14, Kop17, KSZ13, LM11, LM18, LM13, Mak18, MR17, NV12, NW18, OMS13, OW11, RW12, Say13, SWS16, Ste15, YS13, ZS17, ZVKG11, dVBR11].

**Estimating** [PSV18, Che16b].

**estimation** [DSX16, Hac13, HSV12, LO14, Lin17, PGW18, RH13].

**estimator** [CS17, Era15, KVV15].

**estimators** [BC15a, CM13, FLOP10, SA17, WX12].

**Euclidean** [Man15b].

**Euler** [CvN13, GGGS11, He13, HP17, JT16, LS18, Pin18, Ren17, WZ10].

**Eulerian** [NDL14].

**evaluation** [Bal12, SS11].

**evanescent** [AN18].

**EVD** [OYV17].

**even** [BCS14a, HLS11, OTMS13, TOMS13].

**even-tempered** [BCS14a].

**evolution** [CLM17, HP17, HPS18, JLZ18, KL18a, KL18b].

**Evolving** [ER15, GM14, KLLG17, Man15a].

**exact** [DGBL+15].

**exactly** [HMX17, MMMKV16].

**exercise** [MOGO17].

**Existence** [BFG13, CFL11].

**expansion** [SH17].

**expansions** [LT10, MOGO17, SS11, WZH13].

**Explicit** [EH13, AL15, He13, OMS13, SB13a, SB13b, ZS14].

**Exponential**
factor [NN11], factoring [BH11], factorization [DK11, LG14, RB11],
family [AHR14, BBC+18, OTMS13, Ste10, TOMS13], Far [dCM16],
Far-field [dCM16], Farin [Mat13], Fast
[Ball, FKS18, Fuk10, Kir12, Kir17, LG14, PG17, SS11, Fuk13,
GP11, HT18, Ise11, MMMS10, Mir14, Run14, WZH13], Faster [DMMS11],
fat [BMI11], FE [GMS11], Fejér [Not16a], FEM
[BC17, CG11, CPR13, CRS16, EPS17, FMP15, FFKP15, Ga15, GHS12,
GGS11, JSW18, Kur13, Sun16, Wei11], FEMs
[CDNP16, GLS17, nHZZ17, Li15, SWS16, Wan18], Fer [RI15], FETI
[DGS15, PS11], Fickian [BBFP18], fictitious [BG17, JL13b], field
[BN16, BMO15, C17, DL11, FKS18, dCM16], fields [Ber16, D17],
Filippov [DL11], film [CW12, FLMP12], filtering [NG10], finding
[LGL17, W13], fine [PZ8], Finite [AGS10, AP11, ABB15, BPS10, Bar13b,
BS11, BDG+18, LLY15, PC13, SG...12, SzS12, ZS17, AV12, AH14,
AORS17, AKST14, ABH13, BBL11, BY14, BBK17, BHK0, BRK17, BGJ18,
BBD16, BC12, BPZ12, BDF12, BHLZ16, BO18, CCP13, CG13, C17,
CGMM14, CPS16, C16, CSW16, CPB17, CXH10, CW12, CH18, CHH18, CC16,
CK16, DS11, Dem16, Dem17, DCC18, DWWW17, DKS13, DU15, DO17, DSX16,
DL13, DHKR16, ER18, ER15, Era15, EOS17, E13, F14, FH17, F10, G14,
G16, GM14, G12, GM14, GGY14, GKS13, GY17, K15, GFRG15,
GN14, HR14, H12, HZZ18, HR10, HLZ12, HW18, HHS15, HMX17, JP13,
KK12, KOZ16, KK15a, KS18a, KS18b, KK15b, Kir11, KT12, KK15c,
KLLG17, KS11c, LM11, LL12, LV17, LA11, L12, LC14, LM18, LVY14],
finite
[LCWW17, LMR16, LL10, LH14, Mak18, Mir12, N10, NV12, OS14,
OPS15, OR10, Pet12, QRB11, SS15, SS18, SZ13, SS16, Ste10, Wac17, WX12,
WXY12, XZ10, ZBB14, ZZ15, Zha16b, ZRK16, BGH14, CHT17, FGP10a],
finite-difference [HR14], Finite-dimensional [FGP10a], finite-element
[GGR15], Finsler [Mir14], First
[BHK10, NS14, BS12, Fuk10, MP18b, RS18], First-order [BH10, MP18b],
fitting [IN18, OTMS13, TOMS13], fixed [EHRS12, HRS12], Flies
[GEEF17], Floater [dCM17], flow [BGN12, BB12, BG16, BMO15, CRS16,
CS17, DD16, Fri15, G14, KP17, LDQ11, PS17b, SS15, YBTR14, Z12],
flows [AH17, BPS10, BEG14, BGG+16, CCS17, CHT17, CHW17, GGY14,
LVY14, RHM13], fluid
[AKYZ18, AG10, BJLZ15, BG17, DD16, Fer13a, GV15, LDQ11, NP15, SS12],
fluid-poroelastic [AKYZ18], fluid-rigid [SS12], fluid-structure
[AG10, BG17, Fer13a, GV15], fluidic [BG16], fluids [BB16], flux
[BBK17, BHK10, BG16, BKT10, DSX16, PSV18, Tow18, WXY12].

**flux-correction** [BBK17]. **fluxes** [CCSS16]. **Force** [OLOV18, MOS11].

**Force-based** [OLOV18, MOS11]. **forces** [CDKLM18]. **forcing** [RE14]. **form** [FGP10a, FGP10b, Har15]. **format** [EH12]. **formation** [GT14]. **forms** [ABB15, CH18, Dem17]. **formula** [Not16a, Pin18]. **formulae** [AL15, PS16].

**formulas** [DS18a, iTSM10]. **formulation** [AMN11, BB12, DGBL+15, EGH15, HJHA17, HFL12, MP18b].

**formulations** [BKN13]. **Fortin** [MSW13]. **forward** [RS11]. **foundation** [Smy10]. **Fourier** [ADC10, BZ17, BT15, CG17, GP11, KKL1, NGK10].

**fourth** [BMN11, BEJ14, CGH13, CCQ13, HH11, Zha18]. **fourth-order** [BEJ14, CGH13].

**fractional** [AdST12, CJ14, CM15, JZ18, KY12, Mus15, Nov14]. **fractured** [BGG+16, CS17, LDQ11].

**framework** [HSV12, Man15b, Mas16, Olv12, YBTB14, Zha18].

**freed** [BG12, BGR18, BS17, BPZ12, CHW12, Che12, DV11, DBV11, DGSY17, Fro18, Fuk13, GH14a, GN14, HMOU16, Hor17b, KY12, KR16, LT10, MMMS10, Maz11b, Mir16, NNT15, NTT16, OTMS13, PS16, PT14, PR13, SV13, SY17, Seg13, TOMS13, Wag17, WG13]. **Further** [TSGU13].

**gain** [BD11]. **Galerkin** [AH14, AMN11, AP10, AR12, BBSV13, BB12, BS12, BCS14b, BC15b, BCGS11, BS10, CP18, CBHW18, CC13, CC10a, CM15, DM16, DKE16, EO17, EPS17, EGH15, FKNP11, FOLP10, Fer13b, GL17, HM13, HK17, HM14, HW18, HKXZ16, JL13b, KP17, LV17, LMY18, LSY14, LP15, MR17, MP18b, Mus15, RSV13, RMS17, SSS12, SV13, Say13, SS16, Ste15, St10, SH18, TT15, WHC14, Wan18, YS13, ZS14, Zha16a].

**gamma** [AHR14]. **gaps** [GG12]. **gas** [NDL14, ZS12]. **Gasca** [HJZ14]. **gauge** [HS13].

**Gauss** [BCD15, JZ13, Kal15, Man15a, PS16, SY17, dS18b]. **Gaussian** [BCS14a, DMN12]. **Gegenbauer** [Dri2]. **general** [ABH13, CCR14, DKS13, FKM16, GWX16, HW13, JY16, Olv12, Sid11a, SX13].

**generalising** [Man15b]. **Generalized** [AGK+14, CH18, HM18, LFS16, ABC15, BJLZ15, BB13, Cha11, DBV11, DLT12, FN12, FY11, GV15, GS16, IG15, Nak12, PSV10, RMS17, SSS16, SDH+14, ZBB14]. **generalized** [ABC15].

**generation** [FKS18]. **generic** [CCP13]. **Geometric** [BR11, GM14, CM10, Maz11a]. **geometrically** [DGBL+15]. **geometries** [RH13]. **geometry** [CH17, Dic12]. **Gilbert** [AKST14]. **Global**


Implicit

Implement

Implicit-explicit

Implicit-linear

Implicit/explicit

Improved

Improving

Incompressible

Incomplete

Incompressible

Incremental

Indefinite

Infinite

Infinite

Infinite

Inexact

Inf

Inf-sup

Infinite

Inexact

Inequality

Inequality

Inequality

Inequality

Incompressible

Independence

Index

Index-one

Inequalities

Inequalities

Inequality

Index

Integral

Integral-equation

Integrals

Integrands

Integration

Integrator

Integrators

Interaction

Interactions

Interior

Interior-exterior

Interior-layer

Interlaced

Interlacing

Interpolants

Interpolation

Interpolation

Interpretation

Interpolation

Iteration

Inviscid

Inviscid

Irreducible

Isentropic

Isogeometric

Isometric

Isotropic

Jacobi

Jacobi-Bellman

Jacobi-type

Joint

Joseph

Kahan

Kármán

Karstic

Kato

Kato
KdV [HS17]. Keller [ZS17]. Kernel [FHN+14, BM17, DS16, NTW18].
kernel-based [DS16, NTW18]. kernels [Che12, FY11]. kind
[BK12, Fuk10, Mas14, Not16a]. Kinetic [BEG14]. Kirchhoff [LL12, SH18].
Klein [BD12a, BZ17, CCLM15, FS14]. Kluk [LS17]. Koiter [Zha16a].
Korteweg [PSV10]. Kroncker [BS17, DLPV18]. Kronrod [dS18b]. Krylov [KS11a, MV15].
Kummer [AKST14]. Kutta [AMN11, BBSV13, BLM11b, GS16, HPS18, LFS16, Man15a, Ver10, WE16, ZS14].

classification [YBTB14]. Lagrange
[AKYZ18, BS12, BG17, EKAB16, Fer13b, HR10, Jun15, Ren17, SSS12].
Lagrange-projection [Ren17]. Lagrangian [Fer13b, Jin17, RS11]. Lamé
[BS14]. Lanczos [As15, Bar13a, LZ15]. Landau [AKST14]. Langevin
[FS17]. Laplace [vy KS14]. Laplacian [DS10, GGS15]. Large
[Prü14, AH17, Bar13b, BGR18, BBKS18, BS17, JLL15, LC14, Lin17, Ren17].
largest [GGS15]. lateral [PS17b]. Lattice
[DNP14, BD11, BFK+16, BKK17, Dic12, DGSY17]. Lautremont
[BG18]. law [BG16, Tow18]. laws
[AGS10, BBC+18, BKTT10, GM14, HM14, MR17]. layer [CCZ13, KS11b].
layers [CHT17]. LDU [DK11]. least
[BGR18, BC17, CPB17, DMM11, IN18, JL13a, RS18]. least-squares
[BGR18, BC17, IN18]. Lebesgue [BDHK12]. Legendre
[BCK15, Is11, Lui17]. lemniscates [HN16]. level
[BK12, BSZ11, GT14, GKS13, LCH12, Tu11, dHQ15]. Levenberg
[BGR18, HH10, Jin10, JY16]. lexicographic [HHB16]. Lie
[ABC15, BCM17, DGBL+15]. Lifschitz [AKST14]. like
[EGLTP17, Ren17, SX15a, SX15b]. limit
[AN18, BD12a, BZ17, Cal17, CG17, FS14]. linear
[AL15, AL17, AP10, BBL11, BGS17, BM13, BDGQ12, CDN16, CHW12,
Che12, CvN13, DL15, DE16, GAB13, GGS11, HHYY14, HBB14, HKX16,
JMM12, KK15a, KKN14, KK15c, KL18b, LL12, LMcS17, LM15, LHH14,
Mur17, Sd11a, Sin12, Sm10, XZ10, ZS14]. linearization
[Ch11, HM18]. linearizations [DLPV18]. linearized [BMGN18, ND14]. Linearly
[KL18a, AL15, PCCC18]. Liouville [RI15]. Lipschitz [Li15]. Lissajous
[EKAB16]. Lobatto [BCD15]. Local
[BBB17, BDL18, FM18, HH11, SX13, SX15a, SX15b, BV12, BG16, Dem16, DH17, LP15, Sch11b]. localizing
locking [BDGQ12]. locking-free [BDGQ12]. log
[SAL17]. log-determinant [SAL17]. logarithmic
[BM11]. lognormal [GKN+15, GKN+18]. Long
[HL16, TWW15, CGSW16, HORN17a, HS18, Wan12]. Long-term
[HL16]. Long-time
[TWW15, CGSW16, HORN17a, HS18]. Love
[LL12]. Low
[BB13, GKL15, BBKS18, CP18, Hac16, SSS16]. low-order
[CP18]. low-rank
[BBKS18, Hac16, SSS16]. lower
[CG14, HHS15]. LU
[LGC14]. Lur'e
[MOR17]. Lyapunov
[BB13, BL13b, BV14, KS11a, SSS16].
M [XXL12b, XXL12a]. M-matrix [XXL12b, XXL12a]. MacCamy [GHS12].
Maclaurin [JT16, Pin18]. macro [Mat13]. macro-element [Mat13]. made
majorization-minimization [LMSS17]. managed [JM18]. manifold
[GSY17]. manifold-valued [GSY17]. manifolds
[Har18, HRS12, HAG17, Man15b]. map [BPS10]. mapping [HPS16]. maps
[BP50, Har18, ZLL+12]. marching [BCPS10, Mir14]. marking [KS11c].
Marquardt [BGR18, HH10, Jin10, JY16]. Maruyama [LS18]. mass
[GGS11, Kir17]. massively [DK16b]. matched [CCZ13]. matching
[YWY14]. materials [LYL5, SzS12]. Mathematical [Smy10]. matrices
[VVVF10, BS17, Bör10, DK11, DP16, FMP15, FKS18, GMP+14, Hac16,
LGC14, Lin17, Man13, MV15, OYV17, RB11, RMS17, Sid11b]. matrix
[BG12, BMP10, CCR14, CCGP17, Che16b, DHS17, DLPV18, FMP15,
FPD12, GKL15, HLS11, HAG17, JLL15, Kir17, Men11, OR10, SAI17, Str15,
XXL12b, XXL12a, XL17]. matrix-free [SAI17]. Max [GNS15, YBTB14].
max-flow [YBTB14]. Max-norm [GNS15]. maximal
[BL18, KS18b, LV17, Li15]. Maximum
[DK16a, HZZ18, Li15, LH14, DKS13, HKK12, Pru14]. Maximum-norm
[DK16a, Li15]. Maximum-norms [HZZ18]. Maxwell
[BBSV13, BS17, Bör10, DK11, DP16, FMP15, FKS18, GMP+14, Hac16,
LGC14, Lin17, Man13, MV15, OYV17, RB11, RMS17, Sid11b]. matrix
[BG12, BMP10, CCR14, CCGP17, Che16b, DHS17, DLPV18, FMP15,
FPD12, GKL15, HLS11, HAG17, JLL15, Kir17, Men11, OR10, SAI17, Str15,
XXL12b, XXL12a, XL17]. matrix-free [SAI17]. Max [GNS15, YBTB14].
mean [DFL16]. mean-variance [DFL16]. means [Rus10]. Meany [BL13a]. measure [SG...].
measure-valued [SG...]. measures [OARS17]. mechanical [ABC15].
media [BBFP18, BGG+16, BS17, GGM14, KP17, KPR14, LDQ11, SS15].
Median [Nie10]. meets [HANT16]. Meixner [JT13]. membranes
[BGN16]. meromorphic [DV11]. Mesh
[DCC18, Ber16, GMÖ+18, JP13, MLLR14, PZ18]. mesh-dependent [Ber16].
meshes [ABH13, ABB15, BN16, BCGS11, BDF12, DH17, GGRG15, HZZ18,
HM13, Kop17, LS16, LN18, Mak18, Mir12, SW11a, Wei11, YWY14, ZZ15].
Meshfree [Fro18, Nak17]. meshless [Sch10]. metamaterial [LS16].
method [AH14, AH17, AYZ18, ABH13, AR16, ABC16, BZ17, BT15,
BGN16, BSZ11, BG12, BGR18, Bel11, BIM11, Ber16, BCG+18, BL13b,
BGHL14, BGQ12, BNRS17, BDS13, BS10, CEM14, CGPS17, CGMM14,
CS16, CP18, CWHT15, CW12, CCZ13, CQR16, CH12, CM15, DS11,
DWWW17, DO17, DH17, DK16b, DL13, ER15, EOS17, EH12, EGLTP17,
FM18, FKM16, FKNP11, FL15, FLG14, FLS10, GY12, GHP17, GMM14,
Gau18, GV15, GKS13, GY17, GX16, GAB13, HL16, HKK12, HPS16,
HT18, HY15, HQR17a, HR10, HXX16, HXS12, HH11, Jin10, JZ13, JY16,
Jin17, JLL13b, KAR15, KQ18, Kat13, KOZ16, KS18b, KSD11, Kla15, KS11a,
LS18, LCH12, LZ15, LMY18, LP15, LCWW17, LMR16, LL10, LS18,
Man15b, MLLR14, MOR17, MP18b, MNT13, Mur17]. method
[Nei10, NDL14, OR10, PS17a, PS18, PT12, PCC18, QRB11, RS18, Rus10,
SS12, Sau17, SV13, Sch11a, Sch11b, SV12, Sti10, SH18, Tak15, TT15,
Wac17, WZ10, WXY12, WG13, YS13, YWY14, ZS14, ZBB14, Zha16a,
dVMRR17, dVCMR18, CHT17]. methods

Nash [CGS14]. natural [CRS16, CPB17, PS18]. Navier
[HW13, SX13]. Nicolson [KK15a, Wan18]. Nitsche
[CH12, CMR18, JL13b, Jun15, LR17, LJS18, MLLR14]. Nitsche-based
[BBFP18, CEM14, AP10, BV12, BG16, BCM17, BMZ10, BEG14, CGMM11, CDNP16, CLMS18, CCR14, CCGP17, Che12, Che16a, CP14, Dri12, DL15, DE16, EOS17, EKAB16, FS14, GGM016, HY15, LCH12, LS16, WE16, WYW14]. non-consecutive [Dri12]. Non-consistent [CEM14].

[DL15, DE16]. non-local [BV12, BG16]. non-matching [YWY14].
non-monotone [BMZ10]. non-orthogonal [YWY14]. non-permeable
[CP14]. non-product [Che12]. non-relativistic [FS14]. non-rooted
[BCM17]. non-self-adjoint [GGMO16]. non-selfadjoint
[CGMM11, CDNP16]. non-singular [LCH12]. non-smooth [WE16].
non-staggered [Che16a]. non-stationary [CC14, CCGP17].

non-symmetric [EOS17]. non-uniform [LS16]. nonconforming
[CPR13, CGH13, CDNP16, CRS16, CXH10, CCQ13, Era15, HHS15, LMcS17, LL10, Nei10, SS15, SZ13]. nonconstant [BPS10]. Nonconvex
[LMSS17, CWHLT15, GLS17, PT10]. non-dominated [Cal17]. Nonlinear
[CBHW18, AV12, BFG13, BT15, BBK17, BGR18, BC12, BV17, BEK11, CG17, CCLM15, Cho18, FN12, FFKP15, FKNP11, GLS17, GMSS11, HH10, HW18, JM18, JMM12, Jin10, Kal15, KKN14, LA11, MR17, Mur17, Nak17, Nei10, SS11, SzS12, SX13, SX15a, SX15b, WZ10, Wan18, dHQH15]. nonlocal
[GW14]. nonmatching [DH17]. nonmonotone [AV12, PZ18].
Nonnegative [BSCZ12, LN15, LGL17]. nonobtuse [Dal10].
nonorthogonal [Str15]. nonoverlapping [ABAC16, DK16b]. nonperiodic
[DN14]. nonrelativistic [BD12a, BZ17]. nonsmooth [LMSS17, RE14].
nonstandard [Ste10]. Nonstationary [ZJ14, HT18]. nonsymmetric
norms [AdST12, HZZ18, Mir12, PS18]. note [BY15, CM18]. novel [GWCH10]. number [JL13a]. numbers [DP16, Nak12]. Numerical

[AH17, BDQ10, BBSV13, BM13, Cal17, DV11, DES11, DM14, FLMP12, Fri15, HSD18, NDL14, Nov14, RI15, Rus10, AV12, AN18, BBL11, BLS15, BD12a, BGN16, BKW10, BD12b, CD11, CCLM15, CHW17, CP14, CJ14, CC10a, CR12, DS16, DS18a, DE16, FKM16, HMOU16, HJT14, KKN14, LP11, MP15, MMMS10, Mas16, PSV18, PSV10, RSV13, Ven11, WMS10, ZS17]. numerically [Olv12]. numerics [CLM17, LT10, TWW15]. Nyström [BDS13, FL15].


parabolic \[\text{AH17, AL15, ABH13, BRK17, BHL11, BS10, DE16, KS18b, KKN14, LM11, LV17, Li15, LM13, MP18a, Nak17, NV12, Pru14, Rei12, RSV13, Sti10, ZDQ17}.\]

parabolic-elliptic \[\text{Sti10}.\]

paraboloids \[\text{dCMT16}.\]

parallel \[\text{DK16b, HH11}.\]

parallelepiped \[\text{KK15b}.\]

parameter \[\text{JZ13, LP11}.\]

parameterized \[\text{BEK11, DP16, TWZ17}.\]

Parametric \[\text{BGN12, EH13, HSB16}.\]

Part \[\text{FGP10a, FGP10b, PS11, SB13a, SB13b}.\]

partial \[\text{BSCZ12, Bor10, Git14, HV12, Rus10, Sti10}.\]

particle \[\text{PC13, PCCC18, Sch11a, Sch11b}.\]

PDE \[\text{GKN}^{+18, 15, 12, 16, 13, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1}.\]

PDE-constrained \[\text{PG17}.\]

PDEs \[\text{FGP10a, FGP10b, GKN}^{+15, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1}.\]

penalization \[\text{vyKS14}.\]

penalized \[\text{BC15b, LL10}.\]

Penalty \[\text{DU15, KOZ16, BNRS17, JZ14, KP17}.\]

perfectly \[\text{CCZ13}.\]

periodic \[\text{AY18, CMP13, GWW14, HMOU16, HJNS17, MOS11}.\]

permeable \[\text{CP14}.\]

Perron \[\text{LGL17}.\]

Perturbation \[\text{DK11}.\]

perturbed \[\text{AV11, DK16a, KS11b, Kop17, SH17}.\]

Petrov \[\text{CP18, CBHW18, EGH15, HK17}.\]

Phase \[\text{BMO15, CCS17, CS17, CHW17, HHNS16, Hor17b, KP17, SS15, SV12}.\]

Phase-field \[\text{BM015, CCS17}.\]

photonic \[\text{Eng14, GG12}.\]

Piecewise \[\text{KR16, NOS16, CHW12, LL12}.\]

pipes \[\text{BEG14}.\]

Pitaevskii \[\text{AL17, HKT14}.\]

plane \[\text{GN14, IG15}.\]

plate \[\text{BNRS17, LL12, dVM11}.\]

plates \[\text{BC15b, PS17a, SH18}.\]

POD \[\text{Sin12}.\]

point \[\text{BHK10, BLS14, BOS18, DM14, FGH}^{+16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1}.\]

points \[\text{DFL16, EKAB16, Mas14, XCM10}.\]

Poisson \[\text{CCFM17, CCS15, HW13, LP15, RS11}.\]

polarization \[\text{AGK}^{+14}.\]

polefinding \[\text{IN18}.\]

poles \[\text{DV11}.\]

polygon \[\text{GLS17}.\]

polygons \[\text{CVY14, Wei11}.\]

polyhedra \[\text{GNS15}.\]

polyhedral \[\text{BN16, FM18, LN18, CVY14}.\]

polynomial \[\text{BN16, Bel11, CHTV18, DGSY17, LL10, NOS16, SV12, TW17}.\]

polynomial-degree-robust \[\text{CHTV18}.\]

Polynomials \[\text{HN16, CCR14, DLPV18, Dri12, Eng14, HLS11, JO10, JJT13, Kir11, KT12, LT10, ÖS13, ST18, dS18b}.\]

poroelastic \[\text{AKYZ18}.\]

porous \[\text{BFBF18, BGG}^{+16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1}.\]

posed \[\text{HH10, Kal15, Sch16}.\]

posedness \[\text{BG16}.\]

positive \[\text{BM13, MOR17}.\]

positivity \[\text{JLL15}.\]

post \[\text{ER18}.\]

post-processing \[\text{ER18}.\]

posteriori \[\text{AV11, AMN11, AMORB16, BB12, CCM12, CGPS17, CM13, CGH13, CPS16, CHTV18, CS17, DK16a, DSX16, Era15, HSV12, KK15a, KKK14, Kop17, KVW15, LM11, LO14, LM13, NvPZ10, RW12, RHM13, WX12}.\]

postprocessing \[\text{CM13}.\]

potential \[\text{ABK13, BM11, LO14}.\]

potentials \[\text{GY12, SV16}.\]

power \[\text{Pet12}.\]

precipitation \[\text{KPR14}.\]

Precise \[\text{Fuk13, AKST14}.\]

Preconditioned \[\text{BT10, LM15}.\]

preconditioner \[\text{DGS15}.\]

preconditioners \[\text{LR17, PPS18}.\]

quasi-interpolation [SM16]. quasi-linear [AL15, KL18]. Quasi-Monte
[BD12b, GKN+15, HMOU16]. Quasi-optimal
[SH18, CRS16, NTT16, TWZ17]. Quasi-optimality
[Dem16, CXH10, DS11, Dem17]. quasi-orthogonal [DBV11].
quasi-uniform [HM13]. quasiconformal [ZLL+12]. quasilinear
[CD11, DD16, HP17, HPS18]. quasireducible [DP16]. quasistatic
[WHC14]. quaternionic [JO10]. queue [NP15]. quotient [AV10].
Rachford [HHYY14, HY15]. Radau [PS16]. RADI [BBKS18]. Radial
[HSW17, PT14]. radii [BPS10]. radius [LN15]. Radon [GH14a]. Random
[Dic12, OZ17, AR12, BBC+18, BBV11, FKS18, Git14, GKN+15,
HPS16, MNT13, NTT16, TSGU13]. Randomized [Lin17, SAI17]. rank
[BB13, BBKS18, BKUV17, EHRSI12, GKL15, Hac16, HRS12, SSS16]. rank-1
[BKUV17], rate [AR16, HY15, SH18]. rates
[BC17, Cal17, Gan13, HQ12, KS11]. rational
[BD12, BL18, BDHK12, BRZ13, DBV11, GN14, IN18, MMMS10, PR13].
RBF [LSW12]. reaction
[AV11, ABH13, BGGH16, DK16a, FGL14, KS11b, Kop17, LHQ14, Pie18].
reconstruction [AV11, DK16a, KS11b, Kop17, Pie18]. real
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Rectification [GS17], reconstructions [PSV18]. recovery [DV11].
rectangles [CGH13]. rectangular [JP13, LS16]. Recurrence [PR13].
recurrences [MV15]. recursive [Hac16]. red [SZ13]. red-green [SZ13].
Reduced [RHM13, CQR16, Zha18]. reduction [Bar13a, SZ13, Sin12].
Refined [PPS18]. refinement [SZ13, dVBRS11]. refinements [GO+18].
reflector [dCM16]. Regge [Chr11]. regime [BD12a, BD14, FS14, NDL14].
recognition [AN18]. Regular [Zha18, Che16b, Dal10]. Regularity [CCGP17,
LN18, CG17, CD11, DSH17, JLZ18, KS18b, KY12, LV17, Li15, Pru14].
regularization
[GS17, HQ12, HKB18, JT11, Jin12, JZ14, JY16, Jin17, LA11, LP11, OB17].
regularized [EH12, HW13, Jin10, JZ13, Kal15]. regularizing [HH10].
Reissner [BC15b, PS17a, dVM11]. related [BB13, BR11, BGLH14, FL15].
relation [BBK17], relations [PR13]. relationship [Fer13b]. relative
[FH17], relativistic [FS14]. relaxation [ADF18, AL17, BGGH16, BKW10].
Relaxing [GHS12]. reliable [KVV15]. remarks [BO17]. reordering
[OZ17]. Reorthogonalization [Bar13a]. Reorthogonalized [BS13].
representation [HAG17]. representations [EPS17, VD11]. represented
[DC18]. Residual [DSX16, Wei11, CS17, KVV15, WX12].
Residual-based [DSX16, CS17, WX12]. residual-type [KVV15]. residue
[DV11]. resolution [BGLH14]. respect [BCPS10]. restarted [Ais15].
Restarting [BV17]. resultants [NNT15]. results [KSD10]. retarded
[BV14, SV13, SV16]. reverse [BMW14]. revolution [CMMV14]. Rham


tangent [HAG17]. tangential [KdS18, NGKN10]. Taylor [MSW13]. TDNNS [PS17a, PS18]. techniques.
[AR12, Che16a, EZ15, HM18, MP18a, SH17]. temperature [CKL14].

**tempered** [BCS14a]. Temple [BBC+18]. Temple-class [BBC+18].

temporal [HS18, RSV13, SV13]. tensor
[Bal12, DS10, EPS17, EH12, FN12, Hac13, KS18a, LGL17, SS11].
tensor-structured [KS18a]. Tensorisation [Hac11]. tensors
[AGK+14, EH12, EHRS12, HU17, HRS12, LN15]. term
[BDLM18, HIL6, RE14]. terms [JZ14, JY16]. tetrahedral [CCQ13].

tetrahedron [Mat13]. textile [SzS12]. Their
[SCHH13, ABB15, BK12, DLPV18, Hac11, ZT12]. theory
[DK11, HS13, Nie10, Sin12]. thermistor [GLS17]. thickener [BKTT10].
thin [CW12, FLMP12]. thin-film [FLMP12]. third [CGSW16, ZS14].
third-order [CGSW16]. three
[ABER10, Ber16, CCQ13, GL11, GT14, HS18, Pet12, Tu11].
three-dimensional [ABER10, CCQ13]. three-level [Tu11]. tide [CKL14].

**tight** [BKUV17]. Tikhonov [HQ12, JZ14, KdS18]. Time
[ADBN16, BKN13, Mus15, AL17, ABC15, BZ17, BRK17, BS12, CCS17, CG17, CCZ13, CGSW16, DE16, EZ15, FKNP11, GH14b, GEEF17, HHNS16, HT18, HOR17a, HM14, HKT14, HW18, HJNS17, HS18, JLZ18, KL18b, LM13, Lui17, Man15a, MP18b, NV12, Pie18, Pru14, Rei12, Ren17, RE14, SV16, Say13, SG...12, SS16, TWW15, Tow18, Wan12, WE16].
time-dependent [SG...12, SS16]. Time-discrete [BKN13, EZ15].
time-discretized [BKN13]. timestep [KSD11].

time-stepping [Mus15, JLZ18]. timestep [KSD11]. tomoscopy [GS17, GWCH10, HHR11, HKQ18, HM18]. topography [BL17].
topological [ADF18]. total [FLS10, HKQ18, JL13a, PSV18]. TR [SW11a].
TR-meshes [SW11a]. trace [EH13, SAI17]. tracking [CC15, Run14].
traffic [BG16, CLM15]. transform [KK11]. Transformation
[SCHH13, Fuk10, Sid11a]. transformed [PCCC18]. Transforming [BMP10].
transforms [GP11, VD11, WZH13]. transmission [CC13, GMSS11].

**transmutation** [EZ15]. transport [SzS12]. transports [HAG17].

trapezium [ACWL14]. trees [BCM17]. Trefftz [Kre17, MP18b]. triangles
[OS13]. triangular [BHK10]. triangulations [Dal10]. Tricomi [LT10].

tridiagonal [FPD12]. tridiagonalization [Sid11b]. trigonometric
[CS12, ST18]. trivariate [Mat13]. truncation [Hac16]. truncations
[Hac13]. TT-rank [HRS12]. Two [AV10, LMcS17, ABK13, BK12, BBB17, BGGH16, CCS17, Che16b, CHW17, CMR18, DGS15, HQ12, JO10, KP17, KS18a, MOS11, NNT15, SS15, Sid11b, Wan12]. two-coefficient [HQ12].
two-dimensional [ABK13]. two-level [BK12]. two-phase
[CCS17, CHW17]. Two-sided [AV10, BB17, JO10]. twofold [HW11]. type
[BBKS18, BRZ13, Har15, HS17, HW13, KL18b, KVW15, LO14, OZ17, SX13].

UA [BZ17]. Ultraconvergence [mHZZ17]. unbiased [CMR18].

Unconditional [HOR17a, SWS16, Wan18]. Unconditionally [HV12].

unification [VD11]. unified [AMN11, HSV12]. Uniform


XFEM [LR17]. Xu [HH11].
Yee [LS16].

Z [Che16a]. Z-grid [Che16a]. Zakharov [Gau18]. zeros [Dri12, JO10, JJT13, NNT15, Seg13, WG13]. Zimmermann [Str15].

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