A Complete Bibliography of Publications in *Numerische Mathematik* (2020–2029)

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Title word cross-reference

1 [LW21]. 2 [BD21]. ^{k} [LLMP24]. α [BS24]. B [DP20]. C^0 [BySTZ21, LZ20]. C^1 [Zha25]. E [Kri20]. ℓ^1 [MH21]. h [LSW22, MCT20]. $H(\mathrm{div})$ [QZ24]. $H(\mathrm{curl})$ [CW20]. $H(\mathrm{div})$ [CW20]. H^1 [CW20, FS20]. H^2 [AP21]. J [AHP21]. L^2 [HKP20]. L^∞ [PR23]. $\mathbf{R}^N$ [CIR24]. $\mathbf{Q}$ [BNW20]. $\mathcal{H}$ [FMP22]. $\mathcal{H}^2$ [BBF22]. Ω [NP21b]. p [CFEV21, DFTW20, DHW23, Loi20, Zen23]. $p(\cdot,\cdot)$ [BK25]. P_4 [Zha25]. P_k [Zha25]. Q^2 [LZ20]. QR [BDG20]. s [CIV21]. T [Hal21]. $\boldsymbol{H}(\mathrm{curl})$ [CFV24].

-bases [DP20]. **-coercivity** [Hal21]. **-compatibility** [Hal21]. **-conforming** [QZ24]. **-FEM** [LSW22]. **-Laplace** [DHW23]. **-Laplacian** [Loi20]. **-matrix** [BBF22, FMP22]. **-method** [AHP21]. **-Mosolov** [BS24]. **-Navier** [BK25]. **-Poisson** [DFTW20]. **-quasi-norm** [Zen23]. **-regularization** [MH21]. **-robust** [CFEV21]. **-schemes** [Kri20]. **-stable** [NP21b]. **-tensor** [BNW20]. **-term** [CIV21]. **-version** [MCT20].

0D [Reg25]. **0D-3D** [Reg25].

1-d [DIM24].

2D [DBR22, Ji23].

3D [Fun22, Ji23, Reg25].

4 [Cia22].

acceleration [SC25]. **accuracy** [AHV24]. **acoustic** [CCWG$^+$24, CWHMB21, ER20, Lei22]. **activation** [LLMP24]. **adapted** [GJT20]. **Adaptive** [CP24, CGT24, EMPS20, BC24, BBF22, BGIP23, BPS25, CT22, CLX21, CSB24, FPT20, HPSV21, LY22, MP21, PS22, Sei22]. **adaptivity** [MP23]. **adjoint** [BKR21]. **ADMM** [GSY20]. **advection** [CHHM22]. **aggregation** [HST24]. **aggregation-diffusion** [HST24]. **Alfeld** [CGGH24]. **algebra** [HMSS24]. **algebraic** [BGJR23, BPS25, HPSV21]. **algebraically** [JK22]. **algorithm** [BC24, Ber20, CLL$^+$22, FP22, HLW20, KLL21, LO20, NSD20, Shi24, LO21]. **algorithms** [BAMR22, HJK21, HPSV21, HHMX21, LL21b, Loi20]. **Allen** [CP23]. **alternating** [HK22b]. **Ampère** [Ber20, BySTZ21, GT24]. **Analysis** [CP23, HMW23, Liu21, XY21, BB22, Ber21, BK25, BDR25, BCD20, BMS23b, BDK$^+$20, BDG22, CKP22, CNRS23, CJT21, CHL21a, Cia22, CZ21, CK20, EG23, EGK22, FRZ21, GQS23, GF22, HL20a, HK22b, HHMX21, JWL22, Lei22, MSSCT21, MP21, MP23, Nat20a, Nat20b, OS22, Pap25, SS23a, SSVS21, SMS20, Sog24, Sun22]. **analytical** [AA21]. **Anisotropic** [Ish25, BL24, HvR24, Kop20]. **ANOVA** [LPU23]. **anti** [dAFR20]. **anti-Gauss** [dAFR20]. **any** [BGM22a]. **application** [BCG20, DJC20, HL21a, HL21b, KKK$^+$22a, Lei22, RLK20, Reg25, XY21]. **applications** [JNPS23, LL21b, WZL22]. **applied** [Le 23]. **approach** [ALP23, BCH$^+$25, CMNS24, CDE20, DES21, EF21, FLMM20, GSY20, JL20, JK20, MSSCT21]. **approaches** [CHHM22]. **approximating** [SST25, Tro22]. **Approximation** [MRT20, APR22, AB21, AK22, ABNP21, BDS24, BK25, BCG20, BD21, BDK$^+$20, CMR21, CFDI24, CFV24, CIV21, Cia22, DJC20, FHS20, GWSF24, GN21, Hal21, HK22a, KKK$^+$22a, KNV21, KW23, KS24, KN21, LL21a, LLMP24, MCT20, MNR22, MH21, NP21a, OS25, OS22, PS24, SMS20, SSW20, Sei22, Shi24, TNW21, Wan21, ZJN21]. **approximations** [AHV24, AN20, BEU25, BBF22, CCZ20, CC25, CP23, CJL24, FMP22, GT24, HKP20, JNPS23, MSSCT21, SS22]. **arbitrary** [LL21a, SMS20]. **Arnoldi** [BDR25]. **artificial** [HL22]. **assimilation** [BGM22b]. **Asymptotic** [BMS23b, KLMNS22, RS24, CHY23, EG23, FRZ21, HK22a, LSV21]. **asymptotic-preserving** [CHY23, LSV21]. **asymptotics** [XL20]. **Audusse** [GJT20]. **augmented** [BCD20]. **augmented-wave** [BCD20]. **autonomous** [BOS22]. **auxiliary** [CMS20]. **averaged** [DHW23]. **aware** [HI23].

axisymmetric [BBMRB21].

back [JL20]. **back-and-forth** [JL20]. **backward** [BPR21]. **Bakushinkii** [HJP20]. **balanced** [FLNS21]. **Banach** [Rea24]. **barotropic** [BCG20]. **Barron** [LLMP24]. **barycentric** [FCH22a, FCH22b]. **based** [BF24, BGJR23, BHL22, CW20, CZ21, HJK21, Ji23, KKK+22a, KW23, MSSCT21, MP21, SSW20, Sei22]. **bases** [CIV21, DP20, HvR24]. **basis** [AK22, DS22, Pag21]. **BayesCG** [RICO23]. **Bayesian** [HK22a, SSW20]. **BDDC** [Huy22]. **behaviour** [CHHM22]. **Bellman** [BPR21, CCDS23]. **Beltrami** [Guo20]. **BEM** [FMP22]. **bending** [BR20, BGM24, FHS20]. **bending-torsion** [BR20]. **Bernstein** [AK22]. **best** [CIV21, Wan21]. **Beyond** [HJP20]. **bi** [CIR24]. **bi-Lipschitz** [CIR24]. **bidomain** [Huy22]. **Bilinear** [CCM25, BGW23]. **Bingham** [CS23a, GL22]. **Biot** [CLY22]. **block** [AK20, Tro22]. **blocks** [AK20]. **blow** [MT20]. **blow-up** [MT20]. **Boltzmann** [BGM22a]. **Boris** [HLW20, Shi24]. **bound** [BL22, LSW22]. **Boundary** [CWHMB21, Sei22, ADGS23, CCWG+24, CCDS23, CWS24, DLO20, DIM24, EBL22, EOR22, GN21, GL20, GÖSS20, GSUT21, HK23, HvR24, HL21a, HL21b, HSS+20, JK20, KK20, KH20, KPP+21, KN21, Lei22, LMSY25, MCT20, Mat22, MP23, Nab21, SMS22, WM21, XY21]. **bounded** [CIV21, Li21]. **Bounds** [AK22, CEP21, CP24, CGT24, FS24, GLW21, HI23, KS24, LV22]. **Bounds-constrained** [AK22]. **bounds-satisfying** [KS24]. **Boussinesq** [XRV21]. **Brass** [Szo24]. **Brillouin** [CEG+20]. **Brinkman** [BBMRB21]. **Brockett** [BBFR21]. **bubble** [Zha25]. **Budget** [XN23]. **Budget-limited** [XN23]. **Bulk** [FMS21, CDE20]. **Bulk-surface** [FMS21]. **BV** [GJT20].

Caccioppoli [FMP22]. **Caccioppoli-type** [FMP22]. **Cahn** [ABNP21, BK22b, CP23, ES25, Nab21]. **calculations** [HMW23]. **cardiovascular** [Reg25]. **Carlo** [LRS20, GV23, GKK+24, LRS19, LSV21, RS24, SSW20]. **cause** [DV24]. **cells** [Ber21]. **change** [KPW20]. **changing** [Cia22]. **characteristic** [CS23b]. **charged** [HLW20, HL20a, HLS22, Shi24]. **charged-particle** [HLW20, HL20a, HLS22, Shi24]. **chemistry** [BDP22]. **Chorin** [KS20]. **Circuits** [BCLD24]. **CJ** [JZ25]. **CJ-FEAST** [JZ25]. **class** [HK22b, KLMNS22]. **closed** [EGK22, KLL21]. **cluster** [HMW23]. **clustering** [TNW21]. **clusters** [DBR22]. **coarse** [Nat20a, Nat20b]. **coefficient** [Cia22]. **coefficients** [EMPS20, JLZ20, NN21]. **Coercive** [CWS24, CMR21]. **Coercivity** [CWS22, CWS23, DHL20, Hal21]. **Cohen** [CHL21a]. **coherent** [CFDI24]. **collocation** [DP20, GSH23]. **commuting** [CFV24]. **compactifications** [MT20]. **compatibility** [Hal21]. **complement** [SNO20]. **complements** [DBR22]. **Complete** [HK23]. **completion** [ZJN21]. **Complex** [DLY24, AMV25, CGGH24, Mit25, TLO22a, TLO22b]. **complex-step** [Mit25]. **complexes** [HLMZ24]. **complexity** [BGIP23, MMRV24]. **compliance** [Pap25]. **compressible**

[FLMS23, KLMNS22, KN21, MNR22, SS22, Sun22]. **Compression** [HvR24]. **computable** [LV22]. **Computation** [BRS23, ERSS20, KH20]. **computational** [BGIP23, BKR21]. **computations** [Uhl24]. **Computing** [MS20, BAMR22, GSH23, JZ25]. **Concentration** [CHY23]. **condition** [Mat22, XY21, ZJK23]. **conditioning** [DV24]. **conditions** [CCDS23, DLO20, EOR22, HK23, HL21b, JK20, KH20, KN21, Lei22, LMSY25, Nab21, ON22, HL21a]. **cones** [CW20]. **conforming** [AP21, CC25, CW20, GK20, HLMZ24, QZ24, ZZ22]. **consensus** [HJK21]. **consensus-based** [HJK21]. **conservation** [AHV24, CMNS24, GJT20, GTV22, GL20]. **Conservative** [CJT21]. **constrained** [AK22, BNW20, GSTU20, GSY20, GKK$^+$24, Jin22, RS24]. **constraint** [CZ22, WS21]. **constraints** [DV24, GF22]. **Construction** [KN21, AB21, BBF22]. **Continuous** [BGM22b, LLL24, MS20]. **continuous-time** [MS20]. **continuum** [GH21]. **control** [AN20, BBFR21, BGW23, BCGT23, CMR21, CCM25, CP23, FK23, GT24, GSY20, GKK$^+$24, HSS$^+$20, NSAD24, PK22, VZ22, Win20]. **controls** [MRT20]. **convection** [BNO20, BNO22, CC25, CS23b, JK22, Liu21]. **convection-diffusion** [BNO20]. **convection-diffusion-reaction** [CC25, JK22]. **convection-dominated** [BNO22]. **converge** [Wan21]. **Convergence** [BGL25, BK25, BDR25, BD21, CFS20, CS20, FPT20, FRZ21, GJT20, GGS22, HJK21, HPSV21, HJ25, Jin22, BEU25, BMS23a, BPR21, CP24, CCM25, CK20, CJL24, DS21, FS20, GF22, GL20, GSTU20, HT22, Har21, HLO20, HST24, JWL22, KS20, LMSY25, Mit25, PS22, Sag22, SS23a, SSW20]. **Convergent** [CT22, CZ22, KL17, KLL21, NKL21]. **convex** [ATW22, BySTZ21, CL24, CT22, OS22]. **convexity** [BySTZ21]. **convolution** [BF24, BCH$^+$25, JK20, MR21]. **Corners** [DNT21, HK23]. **Corrected** [WM21]. **Correction** [CWS23, CH21, FCH22b, HL21a, HW21a, LO21, LRS20, Nat20a, NKL21, OZ23, TLO22a, LL21b]. **COS** [Jun24]. **Cost** [BPS25, HPSV21]. **Cost-optimal** [BPS25]. **could** [Fun22]. **coupled** [BB22, BDG22, HMW23, Reg25, WZL22, YL24, ZJK23]. **coupling** [BKR21, DS21, KL17, NKL21, ON22]. **couplings** [FMP22]. **CP** [ZJN21]. **crack** [CZB22]. **cross** [CFS20, CP22, HJ25, Sei22]. **cross-diffusion** [CFS20, HJ25]. **cross-points** [CP22]. **Crouzeix** [BOS22, BW21, Guo20, Ish25, Ji23]. **crystal** [CLL$^+$22]. **crystals** [BNW20]. **cube** [NP21a]. **cubed** [BBC23]. **cubic** [LW21]. **cuboid** [HLMZ24]. **curvature** [EGK22, GN21, HL22]. **curves** [AA21]. **cuspidal** [AL20]. **cut** [BHL20]. **CutFEM** [BHL22, LLL24, LL24].

d [DIM24, BD21, LW21]. **Darcy** [BB22]. **data** [BGM22b, DES21, GH21]. **decay** [DHL20, PS21, XL20]. **decomposition** [BS21, BMS23b, DNT21, DJC20, DBR22, GGS22, Nat20a, Nat20b, NN21]. **deep** [BTU22]. **definite** [FLNS21]. **degenerating** [KKK22b]. **degree** [LL21a]. **Dekker** [LO21, LO20]. **deluxe** [Huy22]. **densities** [Sag22]. **density**

[LLW24]. **dependent** [BFM22, CMNS24, CS23a, GSH23, JLZ20, NKL22, OS25]. **derivation** [CFEV21, CJT21]. **derivative** [LLMP24]. **derivatives** [CCDS23, Win20]. **descent** [HJLZ25]. **Detection** [NSAD24]. **deterministic** [HI23]. **develop** [Fun22]. **Development** [CHL21a]. **DG** [MSSCT21]. **Difference** [BGM22a, HH20, LZ20, Sog24]. **differential** [BGJR23, KS24]. **differential-algebraic** [BGJR23]. **differentiation** [BPR21, HRW25]. **diffusion** [BMS23a, BNO20, BNO22, CCZ20, CC25, CFS20, CHHM22, CS23b, DS22, EGK22, FLNS21, HJ25, HST24, JK22, Liu21, NN21, Rie23]. **Diffusion-dominated** [BNO20]. **diffusive** [LSV21]. **dilation** [CWHPV23]. **dimensional** [AN20, BEU25, CGGH24, CH20, CH21, CZB22, GWSF24, GH21, JZZ22, KW23, Liu21, MP23, Yse20]. **dimensions** [FMS21, WM21, Yse24]. **Direct** [ATW22, ABMS21, Liu21, NSAD24, SNO20]. **direction** [HK22b]. **Dirichlet** [CWS24, HSS⁺20, LMSY25, Win20, XY21]. **Dirichlet-to-Neumann** [XY21]. **Discontinuous** [AN20, ABMS21, BBJP20, CS23b, DRG⁺20, GK20, GLW21, GTV22, HK22b, HHMX21, HSS⁺20, LL24, LLS24, Liu21, WS21]. **discrete** [BK25, BDG22, CGGH24, DHL20, ES25, ERSS20, GLW21, GSTU20, HJK21, HKP20, Har21, HK22b, HH20, Ji23, KL17, Kri20, Kri21, LZ20, LW21, NKL21, SMdD22, XRV21]. **discretisations** [CS23a]. **discretization** [DIM24, DHW23, HL21a, HL21b, HK22b, LLS24, PK22]. **discretizations** [BEU25, CL24, Huy22]. **discretized** [HvR24, Uhl24]. **dispersive** [CJT21, EOR22]. **displacement** [ABMS21, BGM22b, Sun22]. **dissipation** [CZ22]. **dissipative** [HJ25, HH20, SX21]. **distance** [MS20]. **distributed** [FK23]. **distribution** [HJP20, XN23]. **div** [ZZ22]. **div-conforming** [ZZ22]. **divdiv** [HLMZ24]. **Divergence** [GK20]. **Divergence-conforming** [GK20]. **does** [Wan21]. **Domain** [BS21, ADGS23, AL20, BMS23b, CDE20, DNT21, DBR22, GÖSS20, GGS22, KK20, KH20, Nat20a, Nat20b]. **domains** [AA24, BLL25, BDP22, BySTZ21, BFM22, CWS22, CWS23, CWHPV23, CWS24, CDE20, DS21, HK23, HHK⁺24]. **dominated** [BNO20, BNO22]. **Double** [Rie23, CWHPV23]. **double-layer** [CWHPV23]. **DPG** [FHS20, FHN22]. **dqds** [FP22]. **Drift** [Shi24]. **driven** [CZ22]. **DtN** [LY22]. **dual** [BK22a, Jin22]. **dynamic** [BGJR23, HL21a, HL21b, Nab21]. **Dynamical** [BEU25, Pag21, GQS23, KNV21]. **dynamics** [BTU22, FS24, HLW20, HL20a, HLS22, Pöt23, Shi24].

E-schemes [Kri21]. **early** [HJLZ25]. **edge** [Cia22, DBR22]. **effect** [AJH21]. **Efficient** [CFDI24, Loi20, NP21a, BKR21, CZ21, KPW20]. **eigenfunctions** [LV22]. **eigenspaces** [GSH23]. **eigenvalue** [AHP21, AL20, BCL25, CP24, CGT24, FP22, GK20, Hal21, RDYL21, SC25]. **eigenvalues** [CEP21, Tro22]. **elastic** [ABMS21, BR20, DBR22, GN21, LY22]. **elasticity** [CGGH24, HHMX21, Pap25]. **elastodynamics** [ADGS23, DRG⁺20]. **electrical** [GH21]. **electrode** [GH21]. **electromagnetic** [Cia22, NKL22]. **electronic** [HMW23]. **element**

[AMS25, AJH21, BLL25, BOS22, BL24, BW21, BGIP23, Ber21, BK25, BPP24, BGM24, BHL20, BNO20, BHL22, BNO22, CCWG+24, CCZ20, CC25, CLY22, CWHMB21, CMS20, CLX21, CHL21a, CH20, CH21, CZB22, DIM24, DST22, EBL22, ER20, ES25, EGN24, FHKP24, FMS21, GÖSS20, GBS24, Guo20, HKP20, HL22, HLMZ24, Ish25, JWL22, Ji23, KK20, KS24, KKK22b, KLL21, KPP+21, LZ20, LY22, MCT20, NN21, OS25, PK22, Sei22, XY21]. **Elements** [NSAD24, ADGS23, AP21, ATW22, CW20, Cia22, FK23, GK20, GL22, HW21a, HW21b, ZZ22, Zha25]. **elliptic** [BPS25, CEP21, CKP22, CNP22, CMR21, CCM25, CLX21, CDE20, Har21, HL20b, HW21a, HW21b, HSS+20, MP23, NN21, RS24, SSVS21, SNO20]. **embeddings** [CIR24]. **Energy** [MNR22, BL24, CH20, CH21, EG23, HH20, LCO24, SX21, Win20]. **energy-dissipative** [HH20]. **enforcing** [BySTZ21]. **enriched** [HW21a, HW21b, YL24, Zha25]. **ensemble** [BBFR21, CHL+21b, PS22]. **entropic** [GKK+24]. **Entropy** [GF22, Kri20, Kri21, BRS23, BS21, BCG20, CMNS24, GJT20]. **enumeration** [Chk24]. **Equation** [BKR21, ABNP21, BBJP20, BySTZ21, BNO20, BNO22, CFEV21, CP23, CJL24, DIM24, ES25, FS24, GT24, GGS22, Guo20, HK23, HST24, Ish25, JZZ22, KH20, Le 23, LM21, LW21, MR21, MRT20, Nab21, PK22, SS23a, Sei22, XY21]. **Equation-free** [BKR21]. **equations** [dAFR20, AA21, AN20, BLL25, BBMRB21, Ber20, BK25, BK22b, BPR21, BCG20, BD21, BFM22, CC25, CHY23, CCDS23, CMR21, CHHM22, CWS22, CWS23, CWS24, CDE20, DHL20, FPT20, FLNS21, Fun22, HMW23, HL21a, HL21b, HH20, KNV21, KS24, KL17, KLMNS22, KN21, Lei22, Li21, Liu21, Mat22, Pöt23, QZ24, SX21, Sog24, TLO22a, TLO22b, WM21, WS21, Yse20, Yse24, NKL21]. **equilibrated** [CCZ20]. **Error** [BK22a, BTU22, HK22b, Win20, XRV21, AM22, BS24, BL22, BCGT23, BK22b, BDG22, CCZ20, CC25, CKP22, CFEV21, CMS20, CH20, CH21, FLMS23, FS24, GT24, GLW21, GTV22, GÖSS20, HJK21, HKP20, HI23, HK22a, HL20b, KK20, Kop20, KV21, KPP+21, LSW22, Lei22, LV22, LMSY25, MP21, MP23, Nab21, SSVS21, SMS20, SMS22, SST25]. **essential** [CWS22, CWS23]. **estimate** [GÖSS20, Nab21]. **estimates** [AM22, BS24, BK22a, BPP24, BK22b, BTU22, CFEV21, CFV24, CMS20, CH20, CH21, EG23, FMP22, FLMS23, GTV22, HJK21, HKP20, HK22a, HL20b, KK20, Kop20, KPP+21, LMSY25, SMS20, SMS22, SST25, Win20, XRV21]. **estimation** [BDR25, KV21, SNO20]. **estimator** [CCZ20]. **estimators** [BRS23, CC25]. **Euler** [BCG20, FLMM20, KLMNS22, LM21]. **Eulerian** [BFM22]. **European** [Jun24]. **evaluation** [AMV25]. **evolution** [CLL+22, LL24]. **evolutionary** [FPT20]. **Evolving** [HL22, BK22b, ES25, KLL21]. **Exact** [SMdD22]. **existence** [BEU25, Li21, SNO20]. **expansion** [Yse20]. **expansions** [XL20]. **Explicit** [SMS20, HL21a, HL21b, SMS22]. **Exponential** [BMS23a, FS20, TNW21, CS23b, DHL20, FS24, Rie23]. **extended** [BHL22]. **extensions** [CIR24]. **exterior** [AA24, KL17, NKL21]. **Extremal** [DP20].

extreme [Tro22].

families [ZZ22]. **family** [HLMZ24, Zha25]. **Fast** [AMV25, BDG20, KKK+22a, LPU23, PS24, BC24, JL20]. **faster** [Wan21]. **FastTwoSum** [LO21, LO20]. **FEAST** [JZ25]. **FEM**} [BS24, BMS23a, BNW20, BPS25, CNRS23, EMPS20, FMP22, FS20, LSW22, NN21]. **FEM-BEM** [FMP22]. **FEMs** [CNP22, GQS23, Sun22]. **ferromagnetic** [BCLD24]. **FFT** [CZ21]. **Fiber** [RDYL21]. **field** [BB22, HLW20, HL20a, OS25]. **field-of-values** [BB22]. **fields** [Cia22, CK20]. **filling** [CZ22]. **filtered** [FPT20, HLW20]. **filtering** [BC24, CHL+21b, CZ21]. **filters** [BBMRB21]. **Finite** [BGM22a, BGM24, CH20, HKP20, OS25, AHV24, AP21, AMS25, ATW22, AJH21, BLL25, BOS22, BL24, BW21, BGIP23, Ber21, BK25, BHL20, BNO20, BHL22, BNO22, CCZ20, CC25, CGT20, CZ22, CFS20, CLY22, CHHM22, CMS20, CLX21, CHL21a, Cia22, CZB22, DIM24, ER20, ES25, EGN24, FLMM20, FLMS23, FHKP24, FK23, GF22, GK20, GL20, GL22, HW21a, HW21b, HJ25, HH20, HL22, HLMZ24, Ish25, JWL22, Ji23, KK20, KS24, KKK22b, KLL21, LZ20, LY22, Nab21, NN21, PK22, Sog24, XY21, ZZ22, Zha25, CH21, NSAD24]. **finite-element** [CMS20]. **finite-volume** [HJ25, Nab21]. **First** [Füh20, DRG+20, FPT20]. **First-order** [Füh20]. **Fisher** [BBJP20]. **fixed** [SS23a]. **floating** [HI23]. **flow** [EGK22, GN21, GL22, HL22, KLL21, PS24, ZJK23]. **flows** [BGL25, BL24, BCG20, CGT20, CMS20, GSTU20, MNR22]. **fluid** [BTU22, BDG22, Reg25, SS22, SST25, ZJK23]. **fluid-structure** [BDG22, Reg25, SS22]. **fluids** [OS22, SS22]. **flux** [CLY22, GJT20, GTV22]. **Fokker** [JZZ22, DHL20, NSD20]. **folding** [BGM24]. **forcing** [JZZ22]. **form** [AK20, DRG+20]. **Formulation** [GL20, BGM22a, Ber21, FHS20, QZ24, SNO20]. **forth** [JL20]. **Fortin** [DST22]. **forward** [Sag22]. **FOSLS** [GS24]. **four** [CNRS23]. **Fourier** [LMSY25, XY21]. **fourth** [CNRS23]. **fourth-order** [CNRS23]. **fractal** [CCWG+24, CWHMB21, JK20]. **fractional** [BMS23a, DS22, FLNS21, NSD20, Rie23]. **fractured** [BHL20]. **fragmentation** [SS23a]. **framework** [AA21, BGW23, HT22, VZ22]. **Fredholm** [dAFR20]. **free** [BCGT23, BKR21, JWL22, Le 23]. **frequency** [CFDI24, EBL22, LSW22]. **friction** [ZJK23]. **friction-type** [ZJK23]. **full** [HMW23]. **full-coupled** [HMW23]. **Fully** [BDG22, LV22, BK25, ES25, GLW21, HK22b, HH20, Huy22, KL17, Kri20, Kri21, LW21, NKL21, XRV21, YL24]. **fully-coupled** [YL24]. **fully-discrete** [BK25, GLW21, Kri20, Kri21]. **function** [GWSF24, LLMP24]. **Functional** [KPP+21]. **functionals** [APR22, MMV22]. **Functions** [PS21, APR22, Ji23, XL20, Yse20]. **fundamental** [AA24].

Galerkin [AN20, BBJP20, CWS22, CWS23, CS23b, DRG+20, EBL22, EMPS20, GK20, GLW21, Hal21, HK22b, HHMX21, HSS+20, LLS24, Liu21, PK22, WS21, YL24].

games [OS25]. **gap** [BOS22]. **gas** [EG23]. **Gauss** [APR22, dAFR20, BF24]. **Gaussian** [BL22, CFDI24]. **GenEO** [MCT20]. **General** [RLK20, BGL25, BJPV20, KN21]. **generalization** [Szo24]. **generalized** [AMS25, CK20, CZB22, FHKP24, JZ25, IGS21]. **generating** [Van23]. **generic** [AB21]. **geometric** [BL24, Ber20, CL24]. **geometry** [Shi24]. **Gevrey** [FS20]. **given** [JZ25]. **global** [Har21]. **Goal** [BGIP23]. **Goal-oriented** [BGIP23]. **Godunov** [GJT20, GTV22]. **Gordon** [FS24]. **grad** [ZZ22]. **graded** [ADGS23]. **gradient** [CGT20, CMS20, CLL+22, Jin22]. **Grid** [Le 23]. **Grid-free** [Le 23]. **grids** [AB21, KW23]. **Gross** [AHP21]. **group** [CS20]. **growth** [BDS24]. **GSVD** [JZ25]. **GSVDsolver** [JZ25]. **Guaranteed** [CEP21, CP24, CGT24, CFEV21, GT24]. **guarantees** [CIV21]. **Gummel** [HST24].

Hamilton [BPR21, CCDS23, FPT20]. **Hamiltonian** [BGJR23, Pag21]. **Hamiltonians** [OS25]. **Hanke** [Rea24]. **hard** [EBL22]. **harmonic** [BGL25, CIV21]. **harmonics** [BBC23]. **Hausdorff** [CCWG+24]. **Hausdorff-measure** [CCWG+24]. **HDG** [QZ24, SSVS21]. **heat** [BGL25, TLO22a, TLO22b]. **Helmholtz** [AA21, CFEV21, CFDI24, DNT21, GGS22, HK23, LSW22, XY21]. **HHO** [BCGT23]. **hierarchical** [EMPS20, Sei22]. **High** [KW23, KS24, AP21, AB21, BEU25, BCL25, CEP21, CGT24, CFDI24, CLX21, DIM24, EBL22, GWSF24, JZZ22, LSW22, MP23, Yse24]. **High-dimensional** [KW23, BEU25, GWSF24, MP23]. **high-frequency** [CFDI24, EBL22]. **High-order** [KS24, BCL25, CEP21, CGT24, CLX21, DIM24]. **Higher** [ADGS23, CCZ20, CT22, NN21, Yse20]. **Higher-order** [ADGS23, CT22, NN21]. **Hilliard** [ABNP21, BK22b, ES25, Nab21]. **Hilliard-type** [BK22b]. **Hölder** [CK20]. **holomorphic** [Hal21]. **homogeneous** [MT20]. **homogenisation** [BKR21]. **homotopy** [RDYL21]. **Hood** [DST22]. **Hopf** [KS20]. **hp** [GLW21, ADGS23, BMS23a, BS24, CFV24, FS20]. **hp-discontinuous** [GLW21]. **hp-FEM}** [BS24, FS20]. **Hybrid** [CC25, LRS19, BJPV20, BCL25, CEP21, CT22, CGT24, CHHM22, DBR22, PK22, LRS20]. **hybridizable** [HSS+20]. **hyperbolic** [CMNS24, HJ25, LPU23, ON22]. **hyperbolic-parabolic** [HJ25]. **hypersingular** [MCT20]. **hypocoercivity** [DHL20].

identification [GG25]. **II** [BNO22, CIV21, HK23, LL24]. **IIA** [AM22]. **ill** [DV24, HJLZ25, Jin22, PS22]. **ill-conditioning** [DV24]. **ill-posed** [HJLZ25, Jin22, PS22]. **illposed** [PR23]. **image** [JNPS23]. **immersed** [JWL22, Ji23]. **impedance** [GH21]. **implementation** [LZ20, ON22]. **implementations** [CZ21]. **implicit** [HL21a, HL21b, HK22b, Huy22, KLMNS22, LM21]. **implicit-explicit** [HL21a, HL21b]. **implies** [Li21]. **Improved**

[FLMS23, FS24, GS24, KMZ23, JLZ20]. **improvements** [AK21]. **including** [HPSV21, Mat22]. **inclusion** [GG25]. **Incomplete** [JZ20]. **incompressible** [BDG22, GQS23, MSSCT21, PS24, Sog24]. **indefinite** [CKP22, CNP22]. **independent** [BBF22]. **inequalities** [KS24, Kri20, Kri21]. **inexact** [Nat20a, Nat20b]. **infimal** [BCH^{+}25]. **infinite** [BCH^{+}25]. **inflow** [KN21]. **inflow/outflow** [KN21]. **information** [ABMS21]. **inhomogeneous** [Sog24]. **initial** [RLK20]. **initial-value** [RLK20]. **inspired** [ES24, FLMM20]. **instability** [MS20]. **instationary** [EG23]. **integral** [dAFR20, AA21, CWS22, CWS23, CWS24, HvR24, WM21]. **integration** [GKK^{+}24, KPW20, vdBBS24]. **integrator** [FS24, HL20a, LW21]. **integrators** [CS20, HLS22, MV20]. **integrodifference** [Pöt23]. **interacting** [CFS20]. **interaction** [BDG22, EGK22, Reg25]. **interactions** [SS22, SST25]. **interface** [ABNP21, CLX21, HW21a, HW21b, ZJK23]. **Interior** [BPP24, BySTZ21, KL17, NKL21]. **internal** [ABMS21, NSD20]. **Interpolation** [BBC23, SS23b, BGW23, FCH22a, FCH22b, GWSF24, IGS21, KKK^{+}22a, KMZ23, SMS22]. **interval** [JZ25]. **introduction** [Uhl24]. **invariant** [CWHPV23]. **inverse** [BNO20, BNO22, DES21, HJP20, Har21, HK22a, HJLZ25, SSW20, SNO20]. **inverses** [FMP22]. **inversion** [ABMS21, DLY24, PS22]. **inversions** [DLY24]. **investigation** [BBFR21]. **involving** [APR22, SS22]. **ion** [Ber21, GF22]. **isogeometric** [BDK^{+}20, DS21, SMS20]. **isotropic** [FS20]. **iterated** [BDR25]. **iteration** [BGJR23, DFTW20, DJC20, Rea24]. **iterations** [BDG20]. **Iterative** [MMRV24, BC24, CZ21, HPSV21, JZ20, PR23, Yse24].

Jacobi [BPR21, CCDS23, FPT20]. **Johnson** [CIR24]. **joined** [DBR22]. **Journal** [Ano25a, Ano25b, Ano25c]. **junctions** [EGN24].

Kacanov [DFTW20]. **Kalman** [CHL^{+}21b, PS22]. **Kernel** [BBF22, HRW25, HMSS24, KKK^{+}22a, KW23]. **kernel-based** [KKK^{+}22a, KW23]. **Kernel-independent** [BBF22]. **kind** [dAFR20, CWS22, CWS23, CWS24]. **knowing** [HJP20]. **KPP** [BBJP20]. **Krylov** [AK21, BRS23, Huy22, PS21, RICO23, Tro22]. **Krylov-BDDC** [Huy22]. **Kutta** [BF24, MR21].

Lack [ALP23]. **Lagrangian** [CCDS23, SMdD22]. **Landweber** [Rea24]. **Laplace** [AA21, CWS24, DHW23, Guo20, HK22a, SSW20, Yse20, Yse24]. **Laplace-based** [SSW20]. **Laplace-like** [Yse20, Yse24]. **Laplacian** [Loi20]. **Large** [HLS22, BRS23, JZ25, MP21]. **Large-stepsize** [HLS22]. **Lattice** [Chk24, BGM22a, KKK^{+}22a]. **lattice-point** [KKK^{+}22a]. **Lavrentiev** [BOS22]. **laws** [AHV24, CMNS24, GJT20, GTV22, GL20]. **Lawson** [FS24, HLO20]. **Lawson-type** [FS24]. **layer** [CWHPV23, DRG^{+}20, LLMP24]. **layers** [CS23b, NKL22]. **leak** [ZJK23]. **learning** [BTU22, XN23]. **Least** [FK23, Füh20, LM21]. **Least-squares** [FK23, Füh20, LM21]. **Legendre** [Wan21]. **Leray** [KS20]. **level**

[Ji23, MCT20, Nat20a, Nat20b, PS24, SSW20]. **levelset** [CL24]. **Levin** [CSB24]. **Lie** [CS20]. **like** [DJC20, Yse20, Yse24]. **limit** [ABNP21, HST24, LSV21]. **limited** [XL20, XN23]. **Lindenstrauss** [CIR24]. **linear** [ABMS21, ALP23, BGJR23, BK22b, CKP22, CNP22, CHHM22, CIR24, Chk24, EOR22, FCH22a, FCH22b, GSY20, HJP20, HK22b, HHMX21, Jin22, KK20, MMV22, Pap25, PS22, PR23, SSVS21, SST25, VZ22]. **linear-quadratic** [VZ22]. **linearization** [BPS25, HPSV21, Zen23]. **linearized** [SNO20]. **linearly** [KLMNS22]. **Lipschitz** [CWS22, CWS23, CWHPV23, CWS24, CIR24]. **liquid** [BNW20]. **Lithium** [Ber21]. **Lithium-ion** [Ber21]. **local** [BC24, CFV24, CS23b, KZ25, LLW24]. **Locality** [LLW24]. **localization** [HM24]. **localized** [FHKP24]. **locally** [CWHPV23]. **locally-dilation-invariant** [CWHPV23]. **lognormal** [EMPS20]. **Long** [CHHM22, HL20a, FS24]. **Long-term** [HL20a]. **Long-time** [CHHM22, FS24]. **loosely** [BDG22, Reg25]. **Lotka** [CHY23]. **low** [BEU25, BDG20, BCG20, BV22, JNPS23, KNV21, KMZ23, LW21, MMRV24]. **low-rank** [BEU25, BV22, KMZ23]. **low-regularity** [LW21]. **Lower** [Kop20, CEP21, CP24, CGT24]. **lowest** [CKP22]. **lowest-order** [CKP22]. **lumped** [ER20].

MAC [FLMS23]. **Mach** [BCG20]. **macro** [Zha25]. **macro-bubble** [Zha25]. **magnetic** [HLW20, HL20a]. **magnetized** [FRZ21]. **magnetohydrodynamics** [GQS23]. **makes** [MV20]. **manifolds** [GN21]. **map** [BGL25]. **mapping** [CDE20]. **mass** [ER20]. **mass-lumped** [ER20]. **matched** [DRG^{+}20]. **matching** [LL21b]. **Matérn** [CK20]. **Mathematical** [Nat20b, Sog24, Nat20a]. **matrices** [AK21, BRS23, BDG20, DP20, HRW25, PS21, Sei22]. **matrix** [APR22, BBF22, BV22, DLY24, FMP22, HMSS24, JZ25, MS20, MSSCT21, NP21b, Uhl24]. **matrix-theoretic** [MSSCT21]. **Maximal** [MH21, AM22]. **Maximizing** [WZL22]. **maximum** [BLL25, BDP22, LZ20]. **Maxwell** [NKL21, AJH21, KL17]. **MDFEM** [NN21]. **mean** [EGK22, HL22, OS25]. **means** [dAFR20]. **measure** [CCWG^{+}24, ERSS20, GKK^{+}24, HJ25]. **measure-valued-strong** [HJ25]. **measurements** [GH21]. **measures** [LRS19, LRS20]. **mechanics** [SMdD22]. **media** [BHL20, Sun22]. **medium** [BGM22b]. **meets** [LPU23]. **mesh** [GBS24, LLL24, LL24, Li21]. **mesh-robust** [GBS24]. **meshes** [ADGS23, BJPV20, HLMZ24, Kop20, LLL24, LL24, Zha25]. **method** [AMS25, AHP21, AA24, AK21, BOS22, BL24, BC24, BJPV20, BL22, BPP24, BDR25, BCD20, BySTZ21, BHL20, BNO20, BNO22, BCL25, CCWG^{+}24, CEP21, CGT24, CCM25, CLY22, CWS22, CWS23, CLX21, CHL21a, CSB24, CS23b, CZB22, DS22, DS21, DRG^{+}20, ER20, EOR22, ES25, EGN24, FHKP24, FMS21, Füh20, FHN22, GL20, GÖSS20, GSH23, HMW23, HW21a, HW21b, HSS^{+}20, HJLZ25, Ish25, JL20, Ji23, Jin22, Jun24, KK20, KZ25, KS20, LLS21, Le 23, LM21, LZ20, LY22, LSV21, LMSY25, Mat22, MP21, Mit25, NN21, RDYL21, SSVS21, Sog24, YL24, Yse24, ZJN21]. **methods**

[AM22, BGL25, BLL25, BF24, BGIP23, BRS23, BTU22, BGM24, CWHMB21, CP22, DNT21, EBL22, ES24, GLW21, GGS22, HLO20, HL22, KW23, KPP^{+}21, LRS19, LRS20, Liu21, MN24, Nat20a, Nat20b, OZ17, OZ23, Pag21, QZ24, RLK20, RS24, SSW20, Sei22, Tro22, WS21, XY21, Zen23, Zha21, ZJK23]. **metric** [ERSS20]. **MHD** [WS21]. **Mimicking** [GH21]. **Mindlin** [FHS20]. **minimization** [BK22a, CT22, Zen23]. **minimizing** [Pap25]. **Minimum** [LL21b, LCO24]. **Minimum-correction** [LL21b]. **mirror** [HJLZ25]. **miscible** [Sun22]. **Mixed** [GL22, PK22, AMS25, ATW22, BJPV20, BCL25, CNP22, CLY22, ER20, GQS23, Sun22]. **model** [BR20, Ber21, BNW20, BHL20, CLY22, CHL21a, Cia22, DES21, FHS20, Huy22, Pap25, YL24]. **modelling** [BBMRB21, Reg25]. **models** [CZ22, HM24, OS22]. **modes** [DBR22]. **modified** [Ish25, SS23a, Shi24]. **Moment** [MN24, CMNS24, LL21b]. **Moment-SoS** [MN24]. **Monge** [Ber20, BySTZ21, GT24]. **Monk** [CHL21a]. **Monotone** [CL24, CMR21, GG25]. **monotonicity** [LZ20]. **Monte** [LRS20, GV23, GKK^{+}24, LRS19, LSV21, RS24, SSW20]. **mortar** [DS21]. **Mosolov** [BS24]. **motion** [LLL24]. **much** [Wan21]. **Mullins** [EGN24]. **multi** [EGN24, Liu21]. **multi-dimensional** [Liu21]. **multi-phase** [EGN24]. **multicomponent** [MNR22]. **multidimensional** [JNPS23, WS21]. **multifidelity** [XN23]. **Multilevel** [CHL^{+}21b, GV23, KW23, LSV21]. **multiparameter** [RDYL21]. **Multipatch** [BDK^{+}20]. **multiple** [DS21, HLS22]. **multiplicative** [CJL24]. **multipoint** [CLY22]. **Multiresolution** [HMSS24]. **multiscale** [AMS25, BJPV20]. **multistep** [BGL25, RLK20]. **Multivariate** [NN21, NP21a].

nanowires [BCLD24]. **Navier** [AN20, BBMRB21, BK25, BD21, FLMS23, Fun22, Ish25, KN21, LM21, Li21, LMSY25, Mat22, MSSCT21, QZ24, Sog24]. **navigation** [Ano25a, Ano25b, Ano25c]. **NCVEM** [CKP22]. **near** [ABNP21]. **Nearest** [NP21b]. **negative** [MMV22]. **nematic** [BNW20]. **Nernst** [HH20, SX21, GF22]. **nestedness** [LL21a]. **network** [HM24]. **networks** [LLMP24, Uhl24]. **Neumann** [BRS23, KK20, XY21]. **neural** [Uhl24]. **Newton** [CCM25, Huy22, Mit25]. **node** [TNW21]. **noise** [CJL24, HJP20, SSW20]. **noise-level-robustness** [SSW20]. **Non** [HK22a, BOS22, BK22b, BFM22, CNP22, CMR21, CH20, CH21, Fun22, Huy22, ON22, PR23]. **Non-asymptotic** [HK22a]. **non-autonomous** [BOS22]. **non-coercive** [CMR21]. **non-energy** [CH20, CH21]. **non-linear** [BK22b, PR23]. **non-monotone** [CMR21]. **non-selfadjoint** [CNP22]. **non-stationary** [BFM22]. **non-stiff** [ON22]. **non-symmetric** [Huy22]. **nondifferentiable** [OS25]. **nonequilibrium** [MNR22]. **nonholonomic** [MV20, SMdD22]. **Nonlinear** [DJC20, CHHM22, HPSV21, Lei22, LW21, SST25, TLO22a, TLO22b, XRV21]. **nonlocal** [AHV24]. **Nonnegative** [JNPS23]. **nonsmooth** [NSAD24]. **nonsymmetric** [FP22]. **norm** [DL23, Zen23]. **normal** [Win20]. **norms** [CWS22, CWS23, CH20, CH21, MMV22]. **note** [LO20, LO21]. **nuclear**

[DL23]. **number** [BCG20, Jun24]. **Numerical** [ABNP21, BDS24, BR20, Ber21, CEG+20, CMR21, CZ21, DL23, EGK22, GN21, MT20, NSD20, Pap25, Pöt23, Zha21, AA21, ALP23, BBFR21, BCD20, BCG20, BD21, CJT21, CJL24, DV24, FCH22a, FCH22b, GSTU20, GSY20, KH20, KN21, Li21, SS22, SST25, SNO20, ZJK23]. **numerics** [TLO22a, TLO22b]. **NURBS** [DS21].

oblique [CCDS23]. **obstacle** [Füh20, HKP20]. **one** [Cia22]. **only** [ABMS21]. **open** [AA21, KZ25]. **Operator** [BGJR23, AK21, CWHPV23, DST22, DES21, ES24, GSUT21, MCT20, SNO20]. **operators** [AK20, BAMR22, CEG+20, CEP21, DS22, GSH23, HPSV21, HvR24, SS23b]. **Optimal** [CMS20, GSUT21, XL20, AN20, BBFR21, BGIP23, Ber20, BS21, BMS23b, BPS25, CP24, CFV24, CJT21, CP23, DP20, DS21, ERSS20, FK23, GSY20, GKK+24, HPSV21, HT22, JL20, JWL22, MN24, NSAD24, PK22, VZ22]. **Optimization** [DLO20, BDP22, BCH+25, ES24, GV23, HJK21, MSA23, NP21b, Pap25, RS24]. **optimized** [CP22, DNT21]. **option** [Jun24]. **order** [ADGS23, AP21, AB21, BBMRB21, BPR21, BCL25, CCZ20, CEP21, CT22, CKP22, CNP22, CNRS23, CGT24, CLX21, DIM24, DRG+20, FPT20, Füh20, HL21a, HL21b, JLZ20, KS24, NN21, ZJN21]. **oriented** [BGIP23]. **orthogonal** [Van23, XL20]. **Orthogonality** [BW21]. **orthonormal** [CIV21]. **orthotropic** [BDS24]. **Oscillation** [KV21]. **outer** [CIR24]. **outflow** [KN21]. **overlapping** [GGS22, LLL24, LL24].

P2D [Ber21]. **pair** [JZ25]. **Panov** [GTV22]. **Panov-type** [GTV22]. **Parabolic** [GKK+24, AM22, BEU25, BLL25, Ber20, BPR21, CHY23, GS24, GLW21, GSY20, HJ25, KNV21, MP23, SS23b, vdBBS24]. **ParaDiag** [KMZ23]. **parallel** [EF21, GGS22]. **parallel-in-time** [EF21]. **Parameter** [GG25, BDR25, CMNS24, GSH23, JWL22]. **parameter-dependent** [CMNS24, GSH23]. **parameters** [ABMS21]. **parametric** [BL24, JZZ22]. **Part** [CJT21, Cia22]. **partial** [JZ25, KS24]. **partially** [JWL22]. **particle** [HLW20, HL20a, HLS22, Le 23, LSV21, Shi24]. **partitions** [KKK22b]. **patch** [BKR21]. **path** [LCO24]. **PDE** [GKK+24, RS24]. **PDE-constrained** [GKK+24, RS24]. **PDEs** [BPS25, CL24, CNP22, CCM25, EF21, FMS21, GS24, GG25, HSS+20, NN21, TNW21, vdBBS24]. **penalized** [JWL22]. **Penalty** [LMSY25, BySTZ21]. **perfectly** [DRG+20]. **periodic** [BAMR22, CEG+20, HHK+24, KKK+22a, KZ25, LW21, Zha21]. **Perthame** [GJT20]. **perturbation** [HRW25, KZ25]. **perturbed** [CS23b, KH20]. **Petrov** [PK22]. **phase** [EGN24]. **physical** [WS21]. **physical-constraint-preserving** [WS21]. **Physics** [YL24]. **Physics-preserving** [YL24]. **pipe** [GL22]. **Pitaevskii** [AHP21]. **pivot** [SS23a]. **Planck** [GF22, DHL20, HH20, JZZ22, NSD20, SX21]. **Plane** [IGS21, TLO22a, TLO22b]. **plasmas** [FRZ21]. **plate** [FHS20]. **plus** [BDG20]. **PML** [CHL21a, KZ25]. **PML-method** [KZ25]. **point** [HI23, KKK+22a].

points [CP22]. **Pointwise** [KK20]. **Poisson** [DFTW20, GF22, HH20, Le 23, SX21]. **polar** [DJC20]. **polygon** [CW20]. **polygon-based** [CW20]. **polygonal** [BLL25, BJPV20, BySTZ21]. **polygons** [BMS23a]. **polyhedra** [OS22]. **polyhedral** [CWS22, CWS23]. **polynomial** [AK22, Loi20, Wan21, XL20]. **polynomials** [AMV25, MS20, Van23]. **poroelasticity** [YL24]. **porous** [BGM22b, Sun22]. **port** [BGJR23]. **port-Hamiltonian** [BGJR23]. **posed** [CDE20, HJLZ25, Jin22, PS22]. **positive** [FLNS21]. **positivity** [HH20, SX21]. **positivity-preserving** [HH20]. **possibly** [Fun22]. **posteriori** [AM22, BS24, BCGT23, CCZ20, CC25, CKP22, CFEV21, GLW21, GÖSS20, Kop20, KV21, KPP+21, LV22, MP21, MP23, SSVS21]. **potential** [ES25, MRT20]. **power** [DJC20]. **power-like** [DJC20]. **Precision** [HI23]. **Precision-aware** [HI23]. **preconditioner** [AK20]. **preconditioners** [AA21]. **Preconditioning** [AP21, BB22, FLNS21, GSUT21, MCT20, MSSCT21, SC25]. **predictive** [Uhl24]. **preliminary** [BCD20]. **PRESB** [AK20]. **preserving** [BL24, BBJP20, BNW20, CHY23, EGN24, FRZ21, HH20, LSV21, SX21, WS21, YL24]. **pressure** [BHL20, GBS24, Mat22, PS24]. **pressure-wired** [GBS24]. **pricing** [Jun24]. **principle** [BLL25, LZ20]. **prior** [RICO23]. **priori** [BS24, CKP22, CNRS23, HL20b, SSVS21]. **prisms** [CW20]. **probabilistic** [HI23]. **probability** [BDP22, LRS19, LRS20, Sag22]. **problem** [AHP21, AN20, AL20, BS24, BB22, BCL25, CS23a, CWS24, CS23b, CH20, CP23, DNT21, DV24, DFTW20, EGN24, FP22, Füh20, HKP20, Har21, KZ25, LLS24, LY22, Pap25, CH21]. **problems** [AA24, AJH21, BEU25, BOS22, BDS24, BK22a, BBFR21, BNO20, BNO22, CCZ20, CKP22, CNRS23, CMR21, CLX21, CZB22, DES21, EBL22, EOR22, FK23, GN21, GG25, GK20, GLW21, GSUT21, GSY20, Hal21, HJP20, HK22a, HL20b, HLO20, HK22b, HW21b, HJLZ25, Jin22, JK22, KK20, MP23, MN24, ON22, PS22, PS24, PR23, RLK20, Reg25, RDYL21, Sag22, SSVS21, SSW20, SNO20, SC25, SS23b, Uhl24, Win20, XN23, Zha21, HW21a]. **processes** [CHL+21b]. **product** [CIV21, RDYL21]. **programming** [Chk24]. **Projection** [MMV22, BGL25, KS20, Mat22, Wan21]. **projector** [BCD20, CFV24, KNV21]. **projector-splitting** [KNV21]. **projectors** [SMS22]. **proof** [SNO20]. **propagation** [BL22, ER20, JK20]. **properties** [AK20, DP20, IGS21, KNV21, KLMNS22, PS21, RICO23, RS24, SMS22]. **Provably** [ON22, WS21]. **Proximal** [Zen23, CLL+22]. **proximal-gradient** [CLL+22]. **pseudo** [EOR22]. **pseudo-spectral** [EOR22]. **pseudodifferential** [GSUT21]. **Publisher** [FCH22b].

QMC [NN21]. **quadratic** [CNRS23, MS20, VZ22]. **quadrature** [APR22, dAFR20, AJH21, BF24, CEG+20, JK20, MR21, Rie23, TNW21]. **quadrilaterals** [ATW22]. **quantification** [HHK+24, KKK+22a, Sag22]. **quantum** [BDP22]. **Quasi** [GWSF24, GV23, GKK+24, HPSV21, MT20, Zen23]. **quasi-homogeneous**

[MT20]. **Quasi-interpolation** [GWSF24]. **quasi-Monte** [GV23, GKK+24]. **quasi-optimal** [HPSV21].

Radau [AM22]. **radiation** [HK23]. **Random** [OZ17, AB21, CDE20, HHK+24, KNV21, NN21, OZ23]. **Randomized** [Tro22, ES24, VZ22]. **rank** [BEU25, BDG20, BV22, JNPS23, KNV21, KMZ23, ZJN21]. **Rate** [SS23a]. **rates** [BD21, CP24, CJL24, DS21, GS24, Jin22, MH21, PS22, XL20]. **Rational** [APR22, BRS23, FCH22a, FCH22b, PS21, TNW21]. **Raus** [Rea24]. **Raviart** [BOS22, BW21, Guo20, Ish25, Ji23]. **reaction** [CC25, JK22]. **real** [AMV25, DLY24, FP22]. **recovery** [ABMS21, BV22, Sun22]. **reduced** [DS22, Pag21]. **reduction** [DES21]. **reference** [HMW23]. **reflections** [LLS21]. **regime** [BNO20, BNO22]. **region** [MSA23]. **regions** [DLO20]. **regression** [LPU23]. **regular** [ES25]. **regularising** [HJP20]. **regularities** [XL20]. **Regularity** [CK20, AM22, FS20, JLZ20, LW21]. **regularization** [BCH+25, MMV22, MH21, MMRV24, PR23, Win20]. **regularized** [BK22a, BS21, HKP20, HL20b]. **regularizers** [MMRV24]. **Reissner** [FHS20]. **related** [MSSCT21]. **relations** [BW21, CJT21]. **relative** [EG23, GH21, LSW22]. **relative-error** [LSW22]. **relativistic** [WS21]. **relaxation** [BCG20, MNR22, RLK20]. **Relaxed** [DFTW20]. **ReLU** [LLMP24]. **reordering** [OZ17, OZ23]. **representations** [EMPS20]. **resampled** [BC24]. **residual** [GÖSS20]. **Resolution** [LM21]. **respect** [Nat20a, Nat20b]. **results** [AA21, BCD20, HRW25]. **Rham** [BDK+20]. **Riemannian** [GN21, MSA23, NP21b, SC25]. **rigid** [DBR22]. **Rigorous** [TLO22b, TLO22a]. **risk** [GKK+24]. **Ritz** [SMS22]. **Ritz-type** [SMS22]. **roadmap** [IGS21]. **Robin** [BDG22, Har21]. **Robust** [CCZ20, CP22, CFEV21, GBS24]. **robustness** [Nat20a, Nat20b, SSW20]. **rods** [BR20]. **rough** [MMV22]. **rule** [Rea24]. **rules** [APR22, dAFR20, AJH21, WM21]. **Runge** [BF24, MR21].

sampling [LRS19, LRS20]. **satisfying** [BCG20, KS24]. **scalar** [CMS20, CH20, CH21, GTV22]. **scales** [HLS22]. **scattering** [AA24, CCWG+24, CWHMB21, EBL22, KZ25, LY22, NKL22, Zha21]. **Scharfetter** [HST24]. **Schatten** [Zen23]. **scheme** [BGM22a, BBJP20, BKR21, BDG22, CHY23, CCDS23, CGT20, CZ22, CFS20, ES24, FLMM20, GJT20, GTV22, GSTU20, HL21a, HL21b, HJ25, HST24, HH20, KNV21, LM21, Nab21, SST25, XRV21]. **schemes** [AB21, BBMRB21, BPR21, BFM22, CT22, CHHM22, CMS20, CJT21, FPT20, FLMS23, FRZ21, GF22, JK22, Kri20, Kri21, KLMNS22, LSV21, RLK20, Reg25, SX21]. **Schmeisser** [Szo24]. **Schrödinger** [CEG+20, LW21]. **Schur** [DBR22, SNO20]. **Schwarz** [CP22]. **Scott** [GBS24]. **screens** [CCWG+24, CWHMB21]. **SDE** [MP21]. **Second** [BBMRB21, dAFR20, BPR21, CKP22, CNP22, CNRS23, CWS22, CWS23, CWS24, HL21a, HL21b, JLZ20, LL21b]. **second-kind**

[CWS22, CWS23, CWS24]. **second-moment** [LL21b]. **Second-order** [BBMRB21, CKP22, CNP22, CNRS23, HL21a, HL21b, JLZ20]. **Sekerka** [EGN24]. **self** [BKR21]. **self-adjoint** [BKR21]. **selfadjoint** [CNP22]. **semi** [CCDS23, SSVS21]. **semi-Lagrangian** [CCDS23]. **semi-linear** [SSVS21]. **semigroups** [AB21]. **semilinear** [BPS25, CNRS23, CMR21, CCM25, CJL24, HLO20, HL21a, HL21b, vdBBS24]. **semismooth** [CCM25]. **Sensitivity** [BV22]. **separable** [Yse20]. **sequel** [Kri21]. **sequence** [BDK+20]. **serendipity** [ATW22]. **series** [XY21]. **set** [Ji23]. **SGFEM** [CZB22]. **shallow** [FHN22]. **Shape** [BDP22, DLO20]. **sharp** [ABNP21, HW21a, HW21b, LSW22]. **shells** [FHN22]. **sign** [Cia22]. **sign-changing** [Cia22]. **Signorini** [CH21, CH20]. **SIMP** [Pap25]. **simple** [LLL24, LL24]. **simulations** [DHL20]. **sine** [FS24]. **sine-Gordon** [FS24]. **single** [HMW23]. **singular** [BK22a, JZ25]. **singularities** [FS20, TNW21]. **singularly** [CS23b, KH20]. **Sinkhorn** [Ber20]. **size** [Li21]. **sliced** [BL22]. **small** [Li21]. **smooth** [Fun22, KK20, Li21]. **smoothness** [SMS20]. **Sobolev** [CK20, Van23]. **Solution** [dAFR20, BR20, GG25, GJT20, JZ20, KS20, Li21, PS24, Yse24]. **solutions** [AA24, AJH21, BK22a, CMNS24, CFDI24, Fun22, KN21, MT20, SNO20, Yse20]. **solver** [BPS25, HPSV21]. **solvers** [Huy22]. **solves** [Nat20b, Nat20a]. **Solving** [MSA23, Loi20]. **some** [OS22]. **SOR** [OZ17, OZ23]. **SOR-type** [OZ17, OZ23]. **SoS** [MN24]. **sound** [EBL22]. **sound-hard** [EBL22]. **Space** [LLL24, LL24, DIM24, DHW23, FMS21, GS24, NSD20, PS21, Yse24]. **Space-time** [LLL24, LL24, DHW23, GS24, NSD20]. **spaces** [BW21, BHL22, CK20, ERSS20, LLMP24, MH21, OS22, Rea24]. **spacetimes** [GL20]. **Sparse** [CIV21, BCH+25, KW23]. **spatial** [BEU25, GJT20, HM24]. **spatio** [CHL+21b]. **spatio-temporal** [CHL+21b]. **species** [CFS20]. **spectra** [BAMR22]. **Spectral** [EBL22, HRW25, Sag22, AMS25, BMS23a, BB22, EOR22, MSSCT21, XRV21]. **spectrally** [MSSCT21]. **spectrum** [CWHPV23, DBR22]. **speed** [BCG20]. **sphere** [BBC23, HT22, HRW25]. **spherical** [BBC23]. **spline** [SMS20, SMS22]. **splines** [LL21a]. **splits** [CGGH24]. **splitting** [BGJR23, EOR22, ES24, KNV21, VZ22]. **square** [AK20]. **squares** [Füh20, FK23, LM21]. **Stability** [BK22b, BPR21, CNP22, EG23, GT24, KNV21, LCO24, SST25, BDG22, DL23, FCH22a, FCH22b, HRW25, Har21, HJ25, SS23a]. **Stabilization** [BC24, BCGT23, Reg25, DIM24]. **Stabilization-free** [BCGT23]. **stabilized** [BNO20, BNO22, JK22]. **Stable** [CZB22, KL17, CFV24, DNT21, DRG+20, NP21b, NKL21]. **staggered** [MSSCT21]. **state** [GSY20]. **states** [CFDI24, LLW24, NSD20]. **stationary** [BFM22, CC25, Ish25]. **Statistical** [RICO23]. **Steklov** [AL20, BCL25]. **step** [Mit25]. **stepping** [BFM22, JLZ20, MP21]. **stepsize** [HLS22]. **Stieltjes** [APR22]. **stiff** [HLO20, ON22]. **Stochastic** [GSH23, ABNP21, BD21, CJL24, DHW23, EMPS20, ES24, HJLZ25]. **Stokes** [AN20, LMSY25, AK21, BBMRB21, BB22, BK25, BD21, BFM22, CLY22, FLMS23, Fun22, GK20, GBS24, Ish25, KN21, LLS24, LM21, Li21, Mat22, MSSCT21, QZ24, Sog24]. **Stokes-Brinkman** [BBMRB21]. **stopping** [HJLZ25]. **Strang** [EOR22]. **stress** [CLY22, HHMX21, QZ24]. **stress-flux** [CLY22]. **stress-velocity** [QZ24]. **stretching** [BGM24]. **strong** [HLW20, HL20a, HJ25]. **strongly** [FRZ21]. **structure** [BL24, BBJP20, BNW20, BDG22, EGN24, HMW23, Reg25, SS22, SST25]. **structure-preserving** [BL24, BBJP20, BNW20, EGN24]. **structured** [BGW23]. **structures** [BGM24]. **Subdiffusion** [JLZ20, JZ20]. **subject** [BNO20, BNO22]. **sublinear** [CIV21]. **sublinear-time** [CIV21]. **submanifolds** [LRS19, LRS20]. **subproblems** [MSA23]. **subsets** [CIR24]. **sum** [WZL22]. **summation** [HI23]. **Super** [HM24, FHKP24]. **Super-localization** [HM24]. **super-localized** [FHKP24]. **superconvergence** [MR21]. **superconvergent** [HSS^{+}20]. **Superior** [AK20]. **superstable** [ALP23]. **supporting** [DLO20]. **Surface** [Guo20, BL24, CDE20, CLL^{+}22, ES25, FMS21]. **surfaces** [BGL25, BK22b, EGK22, KLL21]. **Switch** [NSAD24]. **symmetric** [FLNS21, HHMX21, Huy22, SC25]. **system** [BCG20, CFS20, DHW23, FLMM20, FLMS23, GF22, HJ25, LMSY25, NSD20]. **systems** [BGJR23, BGW23, FLNS21, FMS21, MP21, NSAD24, Pag21, XRV21].

T [LL21a]. **T-splines** [LL21a]. **tangential** [BGW23, HL22]. **Taylor** [DST22]. **technique** [SS23a, Sun22]. **techniques** [BB22]. **telegraph** [KH20]. **temporal** [CHL^{+}21b, CJL24]. **tensor** [BEU25, BNW20, DL23, DJC20, EMPS20, HHMX21, JNPS23, ZJN21]. **term** [CIV21, HL20a, JZZ22]. **terms** [Jun24]. **tetrahedral** [KKK22b]. **thawed** [BL22]. **their** [IGS21, PS21]. **theorem** [Szo24]. **theoretic** [MSSCT21]. **theoretical** [BCD20]. **theory** [LL21b]. **thermal** [MNR22]. **thermo** [YL24]. **thermo-poroelasticity** [YL24]. **thin** [BGM24, NKL22]. **third** [ZJN21]. **third-order** [ZJN21]. **Thomas** [BW21]. **Three** [ZZ22, AN20, CGGH24, CZB22, WM21]. **three-dimensional** [AN20, CGGH24, CZB22]. **Tikhonov** [BDR25]. **Time** [NKL22, ADGS23, BL22, BFM22, CS23a, CHHM22, CIV21, DHW23, DHL20, EF21, FS24, GS24, GÖSS20, HJK21, HLS22, HL21a, HL21b, Huy22, JLZ20, LLL24, LL24, Loi20, MS20, MP21, NSD20, OS25, TLO22b, Uhl24, VZ22, TLO22a]. **Time-dependent** [NKL22, BFM22, CS23a, JLZ20, OS25]. **time-discrete** [HJK21]. **time-domain** [GÖSS20]. **time-sliced** [BL22]. **time-splitting** [VZ22]. **time-stepping** [BFM22, MP21]. **time-varying** [Uhl24]. **timestepping** [GLW21]. **tomography** [GH21]. **topology** [BDP22, Pap25]. **toroidal** [Shi24]. **torsion** [BR20]. **total** [BK22a, GSTU20, Mat22]. **total-variation** [BK22a]. **trace** [BRS23]. **traces** [BDK^{+}20, WZL22, Yse20]. **trajectories** [ALP23]. **transforms** [CIV21]. **transmission** [Har21]. **Transparent** [JK20, KH20, EOR22]. **transport** [BBMRB21, Ber20, BS21, BMS23b, EG23, ERSS20, HT22, JL20, MN24].

trapezoidal [WM21]. **treatment** [CP22]. **trees** [JK20]. **Trefftz** [LLS24]. **triangles** [AP21]. **triangular** [Zha25]. **tridiagonal** [FP22]. **triple** [EGN24, FP22]. **trust** [MSA23]. **Two** [CS23a, LLMP24, MCT20, AK20, BCG20, CH20, CH21, FLMM20, FMS21, GH21, GF22, Nat20a, Nat20b, NSD20, PS24]. **two-by-two** [AK20]. **two-dimensional** [CH20, CH21, GH21]. **Two-layer** [LLMP24]. **Two-level** [MCT20, Nat20a, Nat20b, PS24]. **two-space** [FMS21]. **two-speed** [BCG20]. **type** [AK21, BK22b, EF21, FMP22, FS24, GTV22, HK22b, Lei22, OZ17, OZ23, SMS22, ZJK23].

ultraweak [FHS20]. **unbounded** [KH20]. **Uncertainty** [HHK$^+$24, GV23, GKK$^+$24, KKK$^+$22a, RS24, Sag22]. **Unconditionally** [SX21]. **unfitted** [CLX21, SSVS21]. **uniaxially** [BNW20]. **Unified** [CNRS23, Lei22]. **Uniform** [DIM24, FS24, NN21]. **unifying** [BGW23]. **Uniqueness** [Har21]. **unitary** [BDG20]. **Universal** [BAMR22]. **unsteady** [BK25]. **updates** [KMZ23]. **using** [AB21, AK22, GKK$^+$24, HHK$^+$24, HW21a, HW21b, MSA23, NN21, SNO20]. **Uzawa** [AK21].

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