A Complete Bibliography of Publications in

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 5254
FAX: +1 801 581 4148
E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

17 October 2022
Version 1.25

Title word cross-reference

μ(1) [BFNK+21, LY20a]. N [HT21b, HLA21, RIC+22]. N log N [RMA20].
O(N) [RE20]. p [ARTB20, LWR20, NMR+22, WGY20, XSC21]. P N [XJS21].
Φ [RC20b, HLB20]. Q [SVW21, XG22]. S [PBJ+22]. SN [YOH+20]. Σ
[NKA+20]. Ψ [NKA+20].

-adaptive [NMR+22, WGY20, XSC21]. -adaptivity [ARTB20].
-Algorithm [Ian20]. -body [RIC+22]. -complete [Hua21]. -component
[HLA21]. -continuous [PHJJ22]. -CVT [MN22]. -D [WCZ+20, WZC21,
GDAP20, ID20, NFL+21a, Oru21, PBVC22, UY22, WK21b, YU22].
[CCE+22]. -nearest-neighbors [GLSZ22]. -phase [HT21b]. -phase-
HLA21]. -point [ID20]. -regularization [DD22a]. -tensor [SVW21]. -TMI

İzmir [MMSW22].

1 [Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20g, Ano20f, Ano20h,
Ano20i, Ano20j, Ano20k, Ano20l, Ano21a, Ano21b, Ano21c, Ano21d, Ano21e,
Ano21g, Ano21f, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano22a, Ano22b,
Ano22c, Ano22d, Ano22e, Ano22f, Ano22h, Ano22i, Ano22j, Ano22k,
Ano22l, SLOZ21a, SLOZ21b, WMTQ20]. 15
[Ano20m, Ano20n, Ano20o, Ano20p, Ano20q, Ano20s, Ano20r, Ano20t,
Ano20u, Ano20v, Ano20w, Ano21m, Ano21n, Ano21o, Ano21p, Ano21q,
Ano21s, Ano21t, Ano21u, Ano21v, Ano21w, Ano21x, Ano22m, Ano22n,
Ano22o, Ano22p, Ano22q, Ano22s, Ano22r, Ano22t, Ano22v, Ano22w, Ano22x].
1d [KSHJ20, BGS22a]. 1d-3d [KSHJ20].

2 [Abg20, KSST21, SLOZ21b]. 2020
[Ano20a, Ano20b, Ano20m, Ano20n, Ano20o, Ano20c, Ano20d, Ano20p,
Ano20q, Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20z]. 2021
[Ano21a, Ano21b, Ano21c, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h,
Ano21i, Ano21j, Ano21x]. 2022
[Ano22a, Ano22b, Ano22c, Ano22d, Ano22e, Ano22f, Ano22g, Ano22h,
Ano22i, Ano22j, Ano22k, Ano22v, Ano22w, Ano22x]. 265 [HPA22]. 2P
[CDT22a]. 2V [ATCS20].

[SYOS21]. 395 [Pan20b]. 3d [KSHJ20, MND+20].

407 [ACML20a]. 426 [MM22]. 434 [YJG21a]. 455 [LMFV22a, SS22b]. 461
[ARTB20, DSSSP20, DBSS20, HSW21, LKEM21, LLW20a]. **adding**
[LD20b]. **Additive** [ARB21, SMV22, SQSS20, SSX22]. **ADER**
[BCIT22, BLM22, CPGD21, TCR20, WGU22]. **ADER-DG** [WGU22].
**adhesive** [XLHB22]. **ADI** [DLP21]. **adiabatic** [FN22, GLK20, PA20].
**Adjoint**
[AHG21, CSY21, KKS21c, RMD20, RHR20, SJGC21, AS20, BPJ22, CX22a, CX22b, CSdP22, KS22a, KR22, OY21, PRL22, RB22, SES21].
**Adjoint-based** [RMD20, RHR20, SJGC21, CX22a, CX22b, CSdP22].
**adjoints** [AFP22]. **adjusted** [GC20b, GAC20, SCdHJ20].
**adjusting** [HRY22]. **adjustment** [FFRT21].
**adsorption** [Cie20].**Advanced** [EFS20, FSM22, FGD21, XBRL21].
**advection** [ARR21, BFP21, BFG22, CCL21, CZ22a, DGW20, FMB20, GTDB22, GHA22, LG22a, LT20c, MMZR21, MTB22, MT21, SWF21, SFGNMG22].
**advection-diffusion** [BFG22, GTDB22, MTB22, SWF21].
**advection-diffusion-reaction** [ARR21, BFP21]. **advection-dispersion** [DGW20]. **advection-dominance** [ARR21].
**advection-dominated** [LT20c, SFGNMG22]. **advection-reaction** [CCL21].
**AEPIC** [STC21].**Ane** [DSS20].
**age** [APR22]. **age-structured** [APR22].
**Agglomeration** [PP22a, KG20].
**Agglomeration-based** [PP22a]. **aggregate** [AK21, MRG21].
**aggregation** [KOM22]. **aggregation-fragmentation** [KOM22]. **aid** [JO22].
**air** [HMO20, NTSM20]. **Alderney** [BABB21]. **ALE**
[AR20, CHL20, CPGD20, GPS20, KKS21b, KSBG20, PZM20, VMO21].
**Alfvén** [LMHL21]. **algebra** [LCL22a].
**algorithmic** [HHN21]. **algorithms** [CEL20, Far20, FBCD22, LJ22, MBK21, BTK22, CM20, DLMZ22, DC22b, EFS20, EPV21, EHL20, LLO21, LLK20, MD20b, PBN21, Sab20, SPdS21, SC22c, TCR22, WK20, WTX21, WLH21, YW22a, YWLL21, YL21b, ZC22a, PDPK20].
**aliasing** [KK22b]. **aligned** [BV20, DH20, FAHA20, WN22].
**alignment** [BB20b, KH20]. **all-at-once** [ILNZ21]. **all-hexahedral** [KRL21]. **all-Mach** [KD21a]. **all-quadrilateral**

BF22, BRT22, BO22, BGR20, BZF20, BVR22, BGGM22, BTZ22, BGS22a, Bha20, BZB20, BSW+22, BTEK22, BP21, BJR22, BPJ22, BG20c, BJW20, CCL20, CWL+21, Cha21, CJT+20, CL20d, CGJM21, CHZ+21, CZLC22, CL20b, CBA+20, CKN22b, CX22a, CX22b, CSdP+22, DLZZ21, DKL+20, DSSP20, DVB22, DSPB22, DvW20, DD22b, DD21, DW22, Edo22, EDFL20, EFSH21, FZS+21, FGK22, FBD+22, FJ21, FHJ22, FL21, FCWS22, FTZ22, FC21, FM20, FWG22, FGL+22, GCVI22, GD20, GHY22b, GN20, GWC+22, GPHAPR+22, GHNS21, Gri20, GFY20, GLT+20, GFF20, HBFB20, HHAFR21, HPW21a, HSH20, HZTN21, HLM+20, HYQ20, He22, HRY+22, HSW21, HTL21, HPW21b, HP22a, HSB20, HT21b, HCCR22, JYY22, JZSX20, JTDG20, KS22a, KBCH20, KS22c, KC20a, KKS21a, KKS21b, KLS+20, KNS21, KH20, KLF22, KdMJ+22, KdM+22, KCCJ21, KB22a, KKY+21, KBC22, LT22a, LJ20, LKEM21, LJ22, LL22, LLF+22, LSC20b, LNL21, LH21, LZX+22b, LZY22a, LZPM22, LAT+22, LW22a, LLL22, LY22a, tLjTbZ22, LZC+20, LC22, LSYZ20, LSL21, LYS+22b, LKJ22, MS20a, MOBR22, MA21, MCVF22, MRBC22, MBM+22, Mon21, MY22, NNL+20, NFA21, NBR22, NGK+21, OGVM20, Oru21, PP22a, PKC22, PCB22, PD21, PB22, Puk20, QSZB20, RR21a, RMD20, RS20c, RHR20, RBPRST20, RB21, SL20a, SKP+21, SKT20, Sar21b, Sc22, SC22a, SBVM20, SJG21, SKCM22, SFGNMGN22, SLNM21, SLZW22, TLD20, TL20, TCK+22, TJC21, TSP22, Th22, TSSOA20, TAV21, TPX22, TWY+22b, VMO21, WRH20, WCZ+20, WDS22, WCF22, WWFM22, XDLX21, XHH22, XKZ21, XCL22, XBD+20, XZ21, XZW22, XSA+21, YHC+22, YD20, YZdcNS21, YZSD21, YA21, YJSX22. based [KC20a, KKS21a, KKS21b, KLS+20, KNS21, KH20, KLF22, KdMJ+22, KdM+22, KCCJ21, KB22a, KKY+21, KBC22, LT22a, LJ20, LKEM21, LJ22, LL22, LLF+22, LSC20b, LNL21, LH21, LZX+22b, LZY22a, LZPM22, LAT+22, LW22a, LLL22, LY22a, tLjTbZ22, LZC+20, LC22, LSYZ20, LSL21, LYS+22b, LKJ22, MS20a, MOBR22, MA21, MCVF22, MRBC22, MBM+22, Mon21, MY22, NNL+20, NFA21, NBR22, NGK+21, OGVM20, Oru21, PP22a, PKC22, PCB22, PD21, PB22, Puk20, QSZB20, RR21a, RMD20, RS20c, RHR20, RBPRST20, RB21, SL20a, SKP+21, SKT20, Sar21b, Sc22, SC22a, SBVM20, SJG21, SKCM22, SFGNMGN22, SLNM21, SLZW22, TLD20, TL20, TCK+22, TJC21, TSP22, Th22, TSSOA20, TAV21, TPX22, TWY+22b, VMO21, WRH20, WCZ+20, WDS22, WCF22, WWFM22, XDLX21, XHH22, XKZ21, XCL22, XBD+20, XZ21, XZW22, XSA+21, YHC+22, YD20, YZdcNS21, YZSD21, YA21, YJSX22. basic [SLOZ21a]. basis [AKWY20, BKMC21, CGJM21, CS21b, DDP20, DW20b, EJV22, FZS+21, JYY22, KS22d, KLN20, KL22, LYS+22b, MRYS20, TVL+22, WQZP20]. 

\[ \text{BNP}^{+22}, \text{GC}^{20b}, \text{Hac}^{21}, \text{PHH}^{22}, \text{ZXD}^{22} \]. **BGK**

[BVT\text{20}, BT\text{20}, BCR\text{22}, BD\text{20a}, CKT\text{21}, LMK\text{21}, MR\text{BS}^{22}, TKR\text{22}].

**Bhatnagar** [FZ\text{LL}^{20}, FJ\text{21}, FH\text{J}^{22}]. **Bhatnagar-Gross-Krook** [FZ\text{LL}^{20}].

\[ \text{bi} \] [\text{BNP}^{+22}, \text{DD}^{22a}, \text{LHC}^{22}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-calibrated** [\text{OA}^{21}]. **bi-cubic** [\text{BNP}^{+22}]. **bi-fidelity** [\text{DD}^{22a}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-orthogonal** [\text{ZMG}^{+22}]. **bi-periodic** [\text{LHC}^{22}]. **biCGSTAB** [\text{BZC}^{+22}]. **bifurcation** [\text{MCBA}^{20}].

**Bhatnagar** [FZ\text{LL}^{20}, FJ\text{21}, FH\text{J}^{22}]. **Bhatnagar-Gross-Krook** [FZ\text{LL}^{20}].

\[ \text{bi-calibrated} \] [\text{OA}^{21}]. **bi-cubic** [\text{BNP}^{+22}]. **bi-fidelity** [\text{DD}^{22a}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-orthogonal** [\text{ZMG}^{+22}]. **bi-periodic** [\text{LHC}^{22}]. **biCGSTAB** [\text{BZC}^{+22}]. **bifurcation** [\text{MCBA}^{20}].

\[ \text{bi-calibrated} \] [\text{OA}^{21}]. **bi-cubic** [\text{BNP}^{+22}]. **bi-fidelity** [\text{DD}^{22a}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-orthogonal** [\text{ZMG}^{+22}]. **bi-periodic** [\text{LHC}^{22}]. **biCGSTAB** [\text{BZC}^{+22}]. **bifurcation** [\text{MCBA}^{20}].

\[ \text{bi-calibrated} \] [\text{OA}^{21}]. **bi-cubic** [\text{BNP}^{+22}]. **bi-fidelity** [\text{DD}^{22a}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-orthogonal** [\text{ZMG}^{+22}]. **bi-periodic** [\text{LHC}^{22}]. **biCGSTAB** [\text{BZC}^{+22}]. **bifurcation** [\text{MCBA}^{20}].

\[ \text{bi-calibrated} \] [\text{OA}^{21}]. **bi-cubic** [\text{BNP}^{+22}]. **bi-fidelity** [\text{DD}^{22a}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-orthogonal** [\text{ZMG}^{+22}]. **bi-periodic** [\text{LHC}^{22}]. **biCGSTAB** [\text{BZC}^{+22}]. **bifurcation** [\text{MCBA}^{20}].

\[ \text{bi-calibrated} \] [\text{OA}^{21}]. **bi-cubic** [\text{BNP}^{+22}]. **bi-fidelity** [\text{DD}^{22a}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-orthogonal** [\text{ZMG}^{+22}]. **bi-periodic** [\text{LHC}^{22}]. **biCGSTAB** [\text{BZC}^{+22}]. **bifurcation** [\text{MCBA}^{20}].

\[ \text{bi-calibrated} \] [\text{OA}^{21}]. **bi-cubic** [\text{BNP}^{+22}]. **bi-fidelity** [\text{DD}^{22a}, \text{LZ}^{20b}, \text{LP}^{22}, \text{OA}^{21}, \text{ZDS}^{+21}, \text{FJG}^{+20}].

**bi-orthogonal** [\text{ZMG}^{+22}]. **bi-periodic** [\text{LHC}^{22}]. **biCGSTAB** [\text{BZC}^{+22}]. **bifurcation** [\text{MCBA}^{20}].
GLY20, JLQY21, LCSZ21, LRT+22b. **Bound-preserving** [FGKY22, CYS22, DY22d, GLY20, LCSZ21, LRT+22b]. **Bound/positivity** [HSW22]. **Boundaries** [CDBS21, CRF+21, Coc20, HJ22, LBN21, Lév22, MMZZ22, TKR22, VACE21, ZCY+21]. **Boundary** [ASS21, BRT22, BFB20, CMNS21, HSS21, Sel22, ZHR20, ZH20, AHG21, AD20, AD21, ALCZ20, ADM+21, BMV22, BBGT21, BZ21, BFG22, BBKB21, BDB21, CBS20, CBCT+21, CAG20, CLS+20a, CLW22, CZLC20, CLLL20, CW22b, CAT20, CSL21, CRPB20, CPBB21, DR20, DSZ20, DN21, DLL22, DC22b, EFR21, ELSV22, FZ20a, FJH20, FDP20, FGD+21, GRC+22, Gin21, GAB+22a, GS22, GF21, HF22b, HP21a, HP22b, HLA22b, Ish22, IRT22, JPAZ21, JLC21, JG21, KM22a, KBSF22, KS11, KSH22, KEY20, KdMJ+22, KJdM+22, KKY+21, KT20, LS22, LWL22, LM21b, LYL20, Li20, LZX+22b, LZ22b, Lin21, LHT21, LSTZ21, MWY+22, MZ22, MQ20, MBM+22, MGA20, MD20c, NG22, NFL+21b, NGZD22, NLZ+22, NG20, NW22, Nor22a, OB20, OL20, OLS21, OSZ22, OCGT22, PSL20, PJA22, PH22, PL20, QHLL20, RS20b, RF222, RRPS21, RGS21, SM21a, SYOS19]. **boundary** [SYOS21, SpdF20, STK20, SWM21, SRTB21, SC22a, SBL22, SY21, SSMA21, Svi21, TNB21, TPB22, Thu22, TF20, VBA22, Vre20, Vre21b, WQ20, WGS+20, WP21, WH22b, WKKB21, vWHG+22, XC20, XY20a, XSA+21, YLS21, YYM+22, YGL20, YP22, ZG21, ZHPZ21, ZXY22, ZZZZ20, ZCY+21, ZB21c, vNGB22, CF21, RB21]. **boundary-conforming** [CLLL20]. **Boundary-consistent** [BBF20]. **boundary-lattice** [MWY+20]. **boundary-layer** [HBF20, MD20c]. **boundary-material** [NLZ+22]. **boundary-phase** [SRTB21]. **boundary-value** [SY21]. **boundary/multi** [CW22b]. **boundary/multi-relaxation** [CW22b]. **bounded** [Ere22, HBF22, HLA22b, IGSN22, Nor22a, PEA20, PO21, SSG+20]. **boundedness** [MIM20]. **bounds** [CF20]. **Boussinesq** [ADK+21, GFG22, KMS20, LSXC20, PKC22]. **box** [KS22d, KLG+22]. **BR2** [BV22]. **Branching** [FCP21]. **Breaching** [DevW22]. **breakdown** [NTSM20]. **breakdowns** [MD22]. **breakup** [CDJM21]. **Bregman** [GU20]. **bridges** [KCX+21]. **Bridging** [CRPB20, WLPK20]. **Brinkman** [NY22]. **brittle** [DAJ22]. **Brownian** [Far20, OSZ21, WDK22]. **BSDE** [TTY22]. **BSLM** [KKPB20]. **bubble** [KKJ21, SBC20]. **bubbles** [CDJM21, GY22b, MX22]. **bubbles/droplets** [GY22b]. **Buckley** [AFY20]. **budget** [CPX21]. **Building** [LRT22a]. **built** [Cie20]. **bulk** [HLA20a, SVWV21]. **Burgers** [SFNMF+21]. **buried** [LY22]. **Burton** [Sel22]. **butterfly** [CZHY20, LY20b]. **BVD** [CF21, CDX+21].

**C0** [EFR21]. **C1** [EFR21]. **CABARET** [GMMS22]. **CABARET-MFSH** [GMMS22]. **Cached** [DS20]. **Cahn** [LHC22, MRK+20b, NMR+22, QWZ21, CZ20a, CLS20b, CWW20, DWWZ21, Fu20, GHHR22, GCL+22, HAL20b, KLS+20, LYZW21, LQX22b, LQX22a, LITZ20, LFT+20, MKR+20c, NS22, NMR+21, VRK21a, WJK20, Yan21b, ZWY21, ZY20b, ZOWW20, ZH21]. **calculating** [DC22a, Ish22, Sha21]. **calculation**
[CEBG22, FCWS22, MHWW21, YS22]. calculations
[CMSS21, DLZ22, Dup21, MH22a, PMF20, PM21b, TMG20, WLW20].
calculus [BRS22, THH22]. Calderón [FJH20, KBH22]. Calibrate
[CGIL22]. calibrated [OA21]. Calibration
[ZWB21, BGS22, DERR21, TAVD21]. Can [SZW20, DM21]. cancellation
[SCL20]. candidate [XCZ20]. canonical [AKK20]. capability [HYZ22].
capillaries [VPL20].
capillary [AFV20, BV21, DEvW22, JFH21, LGY20, Pan20a, YZK20, ZGK22].
capillary-controlled [JFH21]. capsule [AP22, CBCT21]. capturing
[ASKH21, APR22, BSS21, CF21, CLS20b, HRRH21, HLL22, JRD22, LFA21, MGV22, MM20, PB20a, PS22b, RRHH21, SBC20, SS22b, SS22c, SS22d, T221]. carbon [SFP20].
cardiac [BCG20, BBQ21, FBD22, RSA22]. Carleman [KNT22]. Carlo
[LT22, Po22, ALF22, BBQ21, HLL20, KOM22, KFP22, KN20, KSK21, LT22a, LMG21, LUMHR22, MRBS22, OGVM22, PJW21, PZ20, PV20, PB22, Po22, RA21, SGMT20, SM21, SH22, TT20, TBD20, VM22, WPBS22, YS22, Yan21a, ZS21b]. Cartesian
[Bar21b, BG20b, CDBS21, Cam21, CLP21, CPBB21, DDR22, Eld22, HLL2b, LD20a, LIZ21, SBL22, ST22, XZS22, YW20]. Cartesian-diusion [HLL22].
cartesian-grid [Cam21, CLP21]. case [CLS20, ER22, HST22a, HPRW20, MMSW22, POS20, PZ20, SC22c, TBW22]. case-study
[POS20]. cases [DZ22]. Cauchy [HBF22, KKB20]. cavitating [PK20].
cavitation [GPSMH20]. cavities [KAC22]. cavity [CJL22, TB20].
Cayley [MCV22]. CCZ4 [DFGR20]. Cell
[FL20b, KCS21, STC21, ALF22, BL22a, BFG22, BG21, BLM22, BCP22, BL21b, BB21b, CCY21, CCNY21, CY21b, CZLC22, CL21, CDL22, CAT20, CKN22a, CSLC21, CBCF20, DSS20, Ere22, FCM+20a, FGL22, GSFH22, HHL20, HLR22, HPRW20, HPW21b, JG21, KBSF22, KS21c, LT22a, LYL20, LAT21, LH20, LKG20, NW20, OCGT22, PWH22, PGCC22, QJQ22, RE22, SCL20, SC224, TCA21, TZM20, TRC22, WDS22, WZL21, XLS22, YW20, ZB21b, ZXBS22, EC20, GHS22, RB21]. cell-based [FGL22, LT22a]. cell-cell [KBS22]. Cell-centered
[FL20b, BLM22, BCP22, CZLC22, CL21, LH20, NW20, PWH22, QJQ22, WDS22, WZL21, ZXBS22]. cell-resolution [RE22]. cell/volume
[XS20]. cells [ACML20a, ACML20b, BO22, FS22, HST22a, QJQ22].
cellwise [CS21c]. CEM [CP20]. CEM-GMsFEM [CP20]. center
[AK20, LAT22, PK20]. centered [BS22a, BLM22, BCP22, CZLC22, CL21, FLW20b, GSFH22, HZ21, LLPL22, LH20, NW20, PWH22, QJQ22, WDS22, WZL21, YJK21, ZXBS22]. Central
[HP21a, KN20, BDA20a, CF21, CKN22b, FZ20a, GKL21, JTW22, KL20, PK20, SAP22, ZB21a]. central-upwind [CF21, CKN22b, GKL21, KL20].
centred [Mon21, TSH20]. centroid [Nis20a]. certain [DM21]. CFD
[BSCG22, BJR22, CZ22b, DGGL22, DEB21, PBN21, SWHJ22, WZ22, ZP20, ZAW20]. CFD-DEM [CZ22b]. CFD-driven
collisionless [CEM20, TS20]. collisions [ALF22, LKJL22].
collocated [NVK22, PBN21, RBD21, XJN20, ZJ22]. collocation
[CL20, CGJM21, ELSV22, FT22, LSS20, LPZ22, LN21, RS20, TCH22, TJC21, WQZP20, Zha22, ZZY20]. colloidal [KVQE21].

combination [FHJ22, FM20, XCZ20]. Combined
[Mar20, AYH21, AP22, GZW20a, USRH20, ZXM21, ZDW22].
combined-field [USRH20]. Combining [MK21, Po22, AL21].
combustion [FSDB20, TTSP21, TSP22]. Comment [PSL20, Pan20b].
common [S22]. communications [HR22]. Community [BK22].
compact [BCIT22, CMP21, CWY21, CTCS22, DBD21, FDP20, HL20, HRWP22, JZSX20, KSTT22, LLQC21, MRY20, PP22, SMW22, SSS22, WABK21, Y21, ZJSX22]. comparative
[AMK21, FCY20, LPG20]. Comparison [BGSP22, CCLM22, GCV22, GFH22, HHVM20, HHJ21, ID20, LGZ21, SSDK21, YJSX22, ZSKN22, DY22, KRL21, SLQW22, TZ20, YLS21, ZOWW20]. Compatible
[YWCI22, FT22, PGTS21, WCB20]. complement [HV20, KKS21c].
complementarity [BE20]. complete [BGR20, Hua21, Pan20a, WH22a]. completely [KKPB20, WW20]. Completeness [DBC22]. completion [DL22].
Complex
[DHM21, CM20, CY22, Cie20, DS22a, DHMT21, DFW22, GJL20, HZ22, JHY21, LYL20, LL22, MWY20, MBE21, MH21, MRZ21, PT22, QG21, RUG20, RS20, SRTB21, SY21, TR21, WZBV20, XCL22, YGL20, ZOG21].
Complex-scaling [DHM21]. Complexity
[ADDM20, CF20, Bre20, JY22, LBN21]. Complexity-reduction [ASBM20].
compliant [BBK21]. complicated [SYO21, SYO21, T21].
component [HLA21, KK22a, LVK22, MS20a, PAA21, SAY22, TW22].
components [GKRS22, LW22, Yan21]. composite
[DYG22, GZW20a, Kus20, MK20]. composites [LJ20, ZOG21].
compositional [AdM21, BE20, CCW20, FMS21, JW21, L21, LT21, LYS22a, LW20, ZF20]. Comprehensive [TK22, TZ20, RWDG22].
compressibility [MR20a, N21]. Compressible
[LLO22b, TZM20, ZGX22, ARTB20, ADP22, AK22, BL22a, BB20a, BV20, BV21, BBD20, BFNK21, BJ21, CPX21, CSCL20, CL22, CZL20, CDX21, CI21a, CPGD21, CSL21, CRF21, CCB22, CHL20, DY22a, DVS22, DhJV22, DJ20, DS21, FQQ21, FQQ22a, FGKY22, FSWA22, FWG22, GQS20, GS22, GFJ20, HBFB20, HRY22, HRRH21, HYZ22, J21, J21, JK22, JM22, JKKS21, JK20, KAO20, KK22a, KDB20, KCC21, KJ22, KK22a, LVK22, LP20a, LNL21, LQXM22, LCR22, LPM22, LZ22b, LLL22, LLL22, LXL22, LXSF22, LMF22a, LMF22b, LAN21, MA21, MZC22, MFRZ22, NGZ22, NZXM21, N22b, OY21, OBB22, PJW21, PKG20, PCB21, PC22, PB21, PPL22, PRL22, PLKM22, REC22, Ran22, Ren21, RWBS21, RWDG22, RZH20, RRK21, SC22a, SRD20, SK21, SLO21b, SLZ21a, TJK22, Y22, UBT22, WH22b, WABK21, Y22, YA21, YP22, YH22].
compressible [ZA20, ZRH20, ZCYS20, ZMWS22, ZSQ21, ZWB21].
compression [AMB22b, DJID20, HM22, SC22c]. compromise [LW22b].
Compton [TLWM20]. Comput
[Abg20, ACML20a, BLL20, EFO20, GRT21, HPA22, LMVF22a, MM22, SZN20, SYOS21, STEK22, SS22b, Vre21b, Vre21a, YGJ21a, ZCQ20a, ZC22b].
Computation [CCER20, FSM⁺22, WCA⁺20, BGH21, CL20a, CPX22, CFS⁺22, CT22, CBCF20, EFR21, EK21, GLT⁺20, KS22a, LPS21, LM22, MM21a, Nis21, REC⁺22, YR22]. Computational [CCE⁺21, CP20, KSST21, LLO22a, TACO22, ASW21, AFGLM20, AWB⁺21, CAF⁺22, CL20b, DVF22, DFP⁺21a, DY22b, DC22b, GCV22, GLJB20, GMMS22, HYM20, HHRA19, KBC20, KSW22, KRL21, LGV20, LWY⁺20, LAS22, LMR20, MD20a, MRT⁺22, MAP⁺20, NT21, Pan20b, WRBK20, YCM⁺20, ZW22, ZAMG20].
[BCIT22, BDB21, CK20, CN21, GS22, JLC21, KKY22, KS21b, LAN21, OKTD21, QHLL20, RRPS21, WH22b, XC20, ZCY⁺21]. condition-enforced [ZCY⁺21]. Conditional
[TBST20, Che20, HGSK22, LT20a, PZ21, TBSH21]. conditioned [HKJ21].
conditioning [BBDT21]. conditions [AD21, BZ21, BFG22, BG20b, CHS20, Cal21, CLS⁺20a, CLW22, CK21, Cc20, DN21, FZ20a, FDP20, HP21a, HLA22b, JPAZ21, LM21b, LYL20, LZZ22b, MGA20, NFL⁺21b, NG20, NW22, PJA22, SYOS19, SYOS21, SSA21, Sv21, TN21, TP22, VBA22, WZW21, WKK21, YLS21, YYM⁺22, YGL20, BRT22]. conducting
[KLP22, USRH20]. conductivities [BCG⁺20]. conductivity
[ILX22, JYK22, Kus20, VSB⁺22, YSTK20]. conductor [HLB20]. cone
[HPA22]. configuration [KLP22, LW22a, MNG⁺22, SM21b]. configurations [MD20a, SVW21, YSCM21]. confined [CY22b].
confinement [AKK20]. confirmation [NTSM20]. conformal
[AMGCL21, SQSS20, XMY22]. conformation [LHXZ22]. conformational
[KSST21]. conforming
[BGS22a, CBCT⁺21, CLLL20, HSG⁺22, Ja22c, LOL22, WY22b, ZSKN22].
congruity [RA21]. conjugate [CNMC21, GB22b, HGV⁺21]. connected
[Nor22a]. connection [SLQW22]. connectivity [WY22a]. Conservation
[YWCB22, ALF⁺22, BKC22, BL22b, BBCD22, CMP⁺21, CJ21, Cha20, DSZ20, DLWW22, EC20, FTZ22, GKL21, GN20, HMO⁺20, Kiv21, KNG22, KNG22, KWF20, KdL20, LZZ22a, LSQ21, LLO22b, LD20b, LA21, LP20b, LSTZ21, LpW21, MYM⁺21, PM21b, PD21, PP22c, QCD21, RBF⁺21, SSK20, SAP22,
SLNM21, SX20, TFWX22, TKK22, XS22b, YNT20, ZHR20, ZCQ20b, ZQ20].

Conservative [CFSH20, CBRY21a, CBRY21b, DevW20, EH22a, GNW22, HST22a, LM20a, RGH+22, WBN22, ZZYX20, ATCS20, BCF22, BCR22, BL21b, CBF22, CNMB20, CSS20, CKN22b, CSB22, CS21c, EJ21, FGL+22, GGB20, GHY22b, GLWY22, HHAFT21, HT21b, HLX21, HLA20b, HLA20c, HLA21, HLA22a, JAI22a, JGM+21, Jen20, JFH21, JK20, KBB21, KKS21b, KJ22, KVQ21, LTD+21, LPL+22, LL22, Li22, LZ20a, LRAQ22, LFZ21, LCP21b, MMZR21, MJJ21, MHW21, MIM20, NK22, OP20, PCB22, PBGB21, PGCC+22, RSWD21, SRD20, SSG+20, SC22b, TSTH20, TBP20, WKW+22, XJN+20, XLS22, XS22a, ZB21a, ZL21a, ZZN22, ZSQ21].

Conserved [LC22, Yan21c].

Conserving [CCY+20, Ere22, FZQ22b, GGLM22, HR20, JL21b, KS21c, KCCR22, LSXC20, MM21c, MM22, Ran22, RC20a, San20, SL22c, SMY22, SMAY22, WCB20, YX22, ZQYS20, ZPGR22].

Consideration [NIT21].

Consistency [BSV22, GN20, JZZ22, Pan20a].

Consistent [BBA22, HTV+22, HLA20b, HLA20c, MM21c, MM22, ASW21, BFB20, GRC+22, HTZ21, LL22a, HW20a, HLA21, HLA22a, Iji21, KLS+20, KS20, KWDS22, MPSP22, NFL+21a, PAA21, RKR20, TBP20, XLS22, XDCF21, YRHN22].

Constant [Lev22, LKJL22, RR21b, Sha21, WWZ20, XG22].

Constant-volume [Lev22].

Constitutive [LHA+21, HXFD20, SKCM22, WWFM22, XHD21, ZBB21].

Constrained [DVS22, BS22b, CSY21, CRA+20, FCM+20a, FVM22, GZ20, HR22, LZ21b, MSIM21, MD21, XD22].

Constraint [FCM20b, MRHR20, BNN20, CHZ+21, CW22a, DeVW22, KBCH20, LKEM21, LL22].

Constraint-aware [MRHR20].

Constraint-preserving [KBCH20].

Constraints [HKKS21, KK20a, LVK+22, RK21, WKA+20].

Construction [YG21].

Construct [HKKS21].

Constructing [LD22].

Constraint-PIC [SS22a].

Containerless [SDP20].

Contamination [LZ20a].

Continuation [JWH20, NP20, Yin22].

Continuous [CLP22, CHG+20, CLDC20, FCP21, KK20b, LY22c, MCB+20, Maps20, PHH21, RMD20, SL20b, SL22b].

Continuous- [SL20b, SL22b].

Continuum [LY20a, LZ20b, LLZ023, BDI+21, BCP22, CHS20, DGL+22, FV20, JN20, KCK21, KCP20, LSC+20c, MR22, SWG21, XLXC20, ZOG21a].

Continuum-kinetic [CHS20].

Contour [SWM21, CA22a].

Contrast [EFO19, EFO20].

Contrast-independent [CEV21, CELV22].

Contrast [TTY22, AR21, BGGM22, BLWL22, BPT+20, DG20, FVM22, GGEJ20, HGV+21, HKKS21, HBF21, KSW22, LT22a, LGV20, LW21, LFA21, LHL+22, MQ20, SEG22, SLQW22].

Controllability [GLJB20, TB22].

Controllable
controlled [CMPZ22, JFH21, SL22a]. Controlling
DHR20, GPL22, LLO22b, SRH21. Conv [HZ22a]. convected
BRT22, MBAG21. Convection [PC22, AdS22, DCGQ20, GMRS20, GFG22,
GFY20, GLY22, HSS21, JRD22, Kiv21, LM21a, LTD+22, LFZ21, LAS22,
MD20b, NCQ22, PKC22, SSPV20, Sev21]. convection-diffusion
DCGQ20, Kiv21, LFZ21, Sev21]. convection-diffusion-reaction
[AdS22, SSPV20]. convection-dominated [GFY20, LTD+22]
convective pressure [GMRS20, MD20b]. convective
[BEB+22, Edo22, KK22b, SKTK21]. Convergence
ACHG+21, JLC21, SN21, TBD+20, BTV22, CWW20, CC20, EG20,
GLY22, HA21, JKK21, JY22, JW21, LKM22, LJ22, LQ22b, LQX22a,
tLj22, Nis20a, SMR22, YWC21]. Convergent
JWH20, CX22b, HT21a, JY22, LZZ21a, MVO+22, TPPA22, WW20.
converging [LZY+22]. convex [LCL22a]. convexification [KNT22].
Convolution [HZ22a, FA22]. Convolutional
DC22a, GSW21, GCSH22, LC20, QC22, WW22, WCZ22, AM22].
convolutions [TPPA22]. cooled [MCBA20]. coordinate [CLT21].
coordinates [Bal21, BSP21, CLS20b, GRSS22, HM21a, MT21, PA20,
QSZB20, SOV21, SLOZ21b]. core [LFI+22]. coregelation [KZK21].
Corner [MGA20]. corners [AUL20, DM21b]. corona [MFG22, MP21].
coronaries [DFP+21a]. Corrected [IRT22, ZA20, HHL20, Kiv21, PA21].
Correcting [JL22, LCG22a, STB+21, WDK22]. correction
AÖR22, AF20, BLL19, BLLL20, sCP22, 22, CCH20, DY22a, EOP20,
GYWH20, GF21, HM22, HPF20, LRT+22b, MW22, Nis22b, PEA20,
PB21, PKL+21, QLY21, Sr20, YLY22, YOH+20, ZS22a, ZWY21, ZJ22].
corrector [CEL+20]. Corrigendum
ACML20a, BLL20, EFO20, GRT21, HPA22, LM22a, MM22, SZN20,
SYOS21, STEK22, SS22b, Vre21a, Vre21b, YGJ21a, ZCQ20a, ZC22b].
corrosion [GJLD20]. cosmic [DW20a]. cosmological [BL21a]. Cosserat
[AEV22]. cost [BB20a, DDR22, HYM20, KSS21]. cost-effective
[BB20a, DDR22]. Coulomb [ALF+22, HHL20, HL22b]. couple [YGW+20].
Coupled [ACML20a, ACML20b, WCA+20, ADK+21, ALF+22, CBQ21,
CIS22, CB22, CIMG21, DEW22, FSW22, GLS22, GF22, GLJ20,
GAB22b, GAC20, HMO+20, HSS21, JLC22, KGB20, KSH20, LFP+21,
LHFH20, LCI+20b, MD20a, MLM+21, NG22, NAI22, NMR+22, OYK+22,
PBA20, PA21, RSA+22, RLH22, RR22, SML20, TV22, TWY+22b, VMO21,
WZS22, Yan21b, Yan21c, YTK22, YH22a, ZML20, ZHP21, ZJ21].
Coupling [CDBS21, Li21, SW21, SWG+20, WW20a, ABH21, AWB+21,
BGS22a, BGSP22, BHK+22, CA20, CZ22b, CS22, DMN22, JHL20, KC20b,
LG22, LW22b, LOL22, LW20b, LM20, MPSP22, MZC+22, MP21, MMZ22,
RG22, WHJ22, vW22, YKdHC20, ZZML20, ZLW+21]. Courant
[OKTD21]. Courant-Friedrichs-Lewy [OKTD21]. CoV [KSS21].
covariant [Bal20, OP20]. CPR [ZL22+22]. CPU [KNS21]. CPU-time
[KNS21]. crack [CC22a, FGD+21]. cracks [KLP22]. creep [KH21b].
creeping [GDF21], criteria [ZRH20], criterion [DCA+22], critical [CDL21], criticality [KWMF22], Critique [TNB21], cross [CCAR22, DC22a, GGB22], cross-helicity [GGB22], crumpled [AR22], crystals [BW20, CMS21, QAS20, ZZY+20], cubature [Gla21, HJK+21], cubed [GCDT22, LP20a], cubed-sphere [GCDT22], cubic [BNF+22, YJK21], cumulus [LM21a], cure [ARR21, FAHA20], cut [HQ20], CVT [MN22], cyclic [VRAM21], curved [SM21a], cross [LZS22a, SM21a], curve-shortening [SM21a], cut [BL22a, BFG22, BG21, BL21b, XS20, XLS22, YWN20], cut-cell/volume-of-fluid [XZ20], cut-cell [BL21b, XS20, XLS22, YWN20], cut [HLB20, HBF22], D-1D [BGS22a], D-2P [CDT22a], D-2V [ATCS20], D-axisymmetric [HBF22], D3ADI [JLC21], D3Q19 [BSR20, GFJ+20], D3V [SMY22], dam [MMSW22], damage [ZOG21a], damaged [LLZL20], damped [KS22a, SQSS20], damping [CCWX22a, CBF22, KST22], Darcy [AKWY20, BMQ20, CY22b, GHHR22, LYZW21, NFA21, QHLL20, Thu22, ZML20], Darwin [Bar22], Data [ASSZ21, BT21, CPH+22, DDP20, DLMZ22, Gri20, GLLB20, HSMR20, HY22, KV20, KFP+22, KLF22, LL21c, MH22a, PR21, WX20, ABOS22, AMW22, AB22, AMB22b, BJ21, BS22b, BSA21, BSA22, BT22, BCSK21, BJ22, BBA22, CMH20, CHZ+21, CFM22, CLP22, DD22a, DCSG22, DJID20, EHL+20, FFGRLS+20, Gla21, GCC21, HM22, HYZH22, JYK22, KTDG22, KH21a, KHM+22, LSS20, LCWJ20, LH21, LGMV22, LHA+21, LD22, MK20, MYM+22, MM21a, MRC21, PLV20, PBJ+22, SW21, SSW22, SSG21, TLD20, THH22, WDL+21a, WCM+21, WXZ22, XZ21, XZWH22, XD22, YMK21, YG21, YYL20, Yin22, ZB21b, ZDS+21, ZL21d, ZL21c, ZC22b, ZC22c, ZO21].
Data-based [Gri20]. Data-driven [ASSZ21, BT21, CPH+22, GLLB20, HSMR20, HZY22, KY20, KFP+22, KLF22, LL21c, MH22a, WX20, BSA21, BSA22, BBA22, CHZ+21, JYK22, KH21a, LHA+21, MM21a, SWG21, SSG21, THH22, WDL+21a, WCM+21, XZWH22, XD22, ZB21b, ZDS+21, ZL21c].

data-informed [PBJ+22]. database [CBA+20]. Davidson [KBB+20].

debris [GDBFN+20]. Debye [ER22, PBCL20].

decaying [GLWY22]. December [Ano20c, Ano20o, Ano21c, Ano21o, Ano22c, Ano22o].

decomposing [FCBM22]. decomposition

[ADK+21, AMGCL21, BCG+20, BGS22a, CZHY20, CYY22, DMRG22, DGS20, EH22a, GLS22, GTDB22, HSB20, JH22, Kh20, KLF22, KCCJ21, LPL+22, LJ22, LGMV22, LAT+22, LZ20a, LT20c, LT21, LLCK20, MDG20, MH22a, MSWH22, NK21, QHLL20, RHG22, RBPRST20, SJ21, SBVW20, Th22, TGS+22, VEC21, ZTS20, ZMG+22, DJ22, JADS21].

deconvolution [XBD+20]. deconvolution-based [XBD+20]. Decoupled [ZY20b, CY22b, LYZW21, WZSC22, WGY+21, WHS22, Yan21c, YTK22, ZHY22, ZH21].

decoupling [LHXZ22, YH22a]. decreasing [FY22, JLL+21].

Deep [BCSK21, CCLL20, CCLX22, EFWT21, HGV+21, HRMY20, HWY20, KL20, LJ21, LZ22a, MH21, PS22a, TTY22, WCC+20, WP21, XZ21, XZ21, XZV21, XZ21, ZC22, ZN21, ZN22, Cai22, CCLL, Cha21, CX21, DN21, FY20, FFFY20, GZ20, HMO20, HLS20, HXF20, JKK20, KTD20, KTD22, KK20a, KTBP20, KM22b, KS22d, KKY22, KBC22, LC20, LY22b, LHA+21, LZCC22, NCC21, OKTD21, SMF20, TLD20, TWL22, THKT21, VRK+21b, WL20, WZ20, WCL+20, WFC22, WWFM22, WXZ22, WX20, XZ22, XZ22, XZ22, XZ22, XZ22, XZ22, YHC+22, YCC+22, YDD+22, ZZZ22, FB22, JADS21].


deformable [BH2J2, BDMP22, KB22b, NZM21, XHS21]. deformation [AP22, BNN20, CRF+21, DJZ22, FTP20, FZS+21, KH21b, LGY+20, XHZ22, ZHP+22, ZJ21]. deformation-fault [ZJ21]. deformations [BZ21, BGY22, BV22, WGS+20, YZ22].


dense [KVQ21, LY20a, PM21a]. density [MC20b, YB22, ZN22, AFL22, AR21, BCC+20, CL20c, DC21, GGB20, GCL+22, HP21a, HZHL22, LKZ21, LRT+22b, LP20b, MK2+20a, PHP21, RZ20, RPDO+21, SHL+20, TWL22, TMG20, VGK21, WQ20, WGY+21, YL22, ZXD22, ZOE20].

densities [GHR22, GQS20]. Density [MC20b, YB22, ZN22, AFL22, AR21, BCC+20, CL20c, DC21, GGB20, GCL+22, HP21a, HZHL22, LKZ21, LRT+22b, LP20b, MK2+20a, PHP21, RZ20, RPDO+21, SHL+20, TWL22, TMG20, VGK21, WQ20, WGY+21, YL22, ZXD22, ZOE20].
dependencies [VRAM21]. dependent [AH21, AFL22, AFGLM20, AMB22b, BG20a, CZ22a, DGW20, GMB+22, GR21, HPA22, KCS21, LBM20, LKG+20, NDH20, PB20b, PMF20, PM21b, PH22, PTT22, Qia22, QHLL20, QCZ22, RGH+22, RV20, STEK17, STEK22, VdGP20, WQ20, XSC21, Yin21].
depending [GQS20]. depletion [CS22]. Derivation [SEG21a, SL20b, WLZP21]. derivative [CCdS20, HNS20, KBCH20, SMR22, YS22, ZS22a]. derivative-free [HNS20].
derivatives [Mon21, TBD+20]. deriving [CC22b]. descent [WK21a]. described [BG20c]. description [AHR20].
derivation [SEG21a, SL20b, WLZP21]. derivative [CCdS20, HNS20, KBCH20, SMR22, YS22, ZS22a]. derivative-free [HNS20].
Design [LFP+21, LZLZ21, WMTQ20, WYHL21, ARC22, BJW20, CHG21, Da22, DGGL22, DJ20, FSWA22, GWC+22, NYZ21, RttBI20, TBG20, WQ20, YXL22].
Design [LFP+21, LZLZ21, WMTQ20, WYHL21, ARC22, BJW20, CHG21, Da22, DGGL22, DJ20, FSWA22, GWC+22, NYZ21, RttBI20, TBG20, WQ20, YXL22].
development [CWY21, CI21a, HCL20, JYY22, PCB21, PGM22, RB21, LMHL21, WZSK22, WYS20, ZAW+20]. device [ZWZL22]. devices [AKK20, WYHL21].
DG [DCGQ20, Mar20, ARTB20, DCGQ20, EH22a, HRRHG21, KGBT20, KBCB20, LWW21, MAPS20, OB22, WGU+22, YOH+20].
dielectric [CCE20, LMUHR22, WZC21, WSAZ22, ZR21]. Difference [VVRWT21, AAL+21, AT20, AD20, CLS+20a, CBF22, CHF21, CLP21, DMN22, DBD21, DSZ20, DYM20, DT21b, DT22c, DFW22, FZQ22a, FZ20a, FZ20b, Gao22, GLY20, HT21a, HPA22, HZ21, HL20a, HCL20, HX22, HSG+22, Iij21, JTK22, JLY22, KSTT22, KLN20, KK22a, LL21a, LG22, LG21, LZ22a, LCR22, LH20, LAQQ2, LRW21b, LCN20, LSZY20, Liu20b, LM20c, PP22b, PPP21, PTT22, QCD21, RFZ22, RAZ21, RMWS21, SOV21, SS2+20, SLNM21, SN21, TCS22, TVL+22, WCF+21, WZT21, XBRL21, Yan21a, YLK20, YLNT20, YLS21, YWWL21, ZCZ22, ZA21, ZQ21, ZLW22b, ZL22, ZPK22, Bat20b, VPDD22]. difference-finite [LSZY20].
difference/finite [YLNT20]. differences [AD21].
different [AAKW20, BDBB2, FY22]. different [CH22, GHHR22, GCD20, LM21c].
differentiable [LRT22a]. differential [BFM21, BM21, BGM+22b, CMR21, CCWX22b, CDX22, CdS22, DM21, FFFY20, GLSZ22, GHS21, GW20, GYZ21, GLT+20, GWZ22, HNS20, HHL22, JLY22, KTB20, LT22b, LYS+22b, LZCC22, MB21, OPM22, OWH22, PB20b, SX20, TL20, TBST20, WX20, XZW21, YGL20, YNBD22, XZK21, ZBY20, ZZZ22, ZCZ22, ZQYS20, ZL21c, ZSM22].
differentiate [AIN21]. differentiation [HHN+21]. Diffraction
Diffuse
[PM22b, CDL21, LSW20].

Diffusion-domain [YGL20].

diffuse-interface [JMM20].

Diusion [MSIM21, MD20b, AdS22, AdDMT21, AAKW20, ARR21, BFP21, BL20, BS22a, BF222, C22a, CSS20, CV21, Coa22, DDR22, DCGQ20, FM20, GYWH20, GTDB22, GLY22, HLZ20, Heu21, HL22b, HL20b, JL21b, JTZ22, JRD22, KIHB21, Kv21, LTD'22, LB21, LLO22a, LW20a, LSLH20, LM20b, LFZ21, LWW21, LX21, MYL21, MTB22, NCQ22, PWH'22, PK20, PPHO22, RPA22, Sab20, SSPV20, Sev21, SWF21, SMR22, SFNM'21, TZ21, WZ21a, YYLY22, YW22, YAX20, Yua21, ZJZK20, ZWZL22, ZMWS22, ZLS22].

Diusion-redistanciation [MSIM21].

Diusiphoretic [LHM20].

Diusive [JJ21, LPZ22, MRBS22, PCQL20].

digital [HP21b, TSS'20].

Dilatancy [BFNK'21, GDBFN'20].

dilute [PM21a].

dimension [KSHJ20, KWS22, LCH20, Lem20, PBCL20, VACE21, ZYD20].

Dimensional [SFP'20, AG21, AdDMT21, ALFN22, ARGK22, AAKW20, BCWD21, BL20, Bal21, Bar21b, BDL'20, Bre20, Cam21, CPX21, CCM'22, CL20b, CSS20, CLS20b, CLJ'20, CS21c, DEN22, DY22a, DM21, DV20, DV21, DZ22, DJD20, EHW21, EHL'20, EMS'21, FSW22, FZ20a, FTZ22, FWW22, FGL'22, GHY22a, Gao22, GY22, GZ21, HLZ20, HZD21, HR21, HGSK22, Hua21, HSG'22, JPAZ21, JLL22, JLY22, KTB20, KV20, KY22, KLG'22, KKY'21, LL20, LSW20, LWR20, LDM'21, LZS22a, LZS22b, LY22a, LJZK21, LRT22a, LY20b, Lu21, LPZ22, LD22, MDG20, MCBA20, OWHN22, OKY'22, PB20a, PJ22, PMF20, PLV20, PRL22, QPW21, QSB20, SL20a, SH21, SOV21, SWM21, SKCM22, SDA'21, TTY22, TL20, TTP22, VCNC'21, X222, X20, XLZ21, XCL22, XY20b, XZWH22, XM20, YLNT20, YK22, YRC'21, YMY'21, YW22, YZ22, ZC22a, ZCL22, ZG22, ZGL22].

dimensional [ZFG21, ZWZL22, ZC22a, ZPGR22, ZXY21, ZQZ'21, ZQZ'22, aKAK20].

dimensionality [WDH'21].

dimensionally [VRBS22, SBL22].

dimensionally-reduced [VRBS22].

dimensionally-split [SBL22].
dimensions

[BY20, CJLL21, DLL22, FCBM22, GL20, GHTC21, JZ20, KKC20, LZC'20, MTO21, MVK20, Sel22, SSPV20, SH22, TRC22, TYPX22, XY20a].

Diminishing [CF21, DLY22].
dioxide [SFP'20].

Dirac
[HPA22, AFGLM20, CL20a, Kho20, XY22, Y21].

Direct
[EGTC'21, GF21, JG21, KOM'22, KD20, LMZ21b, QAS20, VRK'21b, WCA'20, WGB22, YK20b, AWB'21, BBGT21, CPX22, CHZ22, DY22a, FSB'20, GBC'20, HM21a, HLY20, KKM21, LCP21a, LHM20, OQVM22, QLY21, RKR20, SGW21, SES21, ZB21c].

direct-adjoint [SES21].

Direct-forcing [GF21].
direction [CQA21, LST21].
direction-splitting [CQA21].
directional [CAT20, DG20, OCGT22].

Directly [HCCR22].

Dirichlet [ASS21, MMZ22, PR21, YLS21, YGL20].

Dirichlet/Neumann [MMZ22].
discharge [MP21, NBR22].
discharge/drift [MP21].

discharge/drift-region [MP21].
discharges [LZC'20, SW22].
discontinuities [BB20b, Far20].

Discontinuity
Discontinuity-driven [BB20b]. Discontinuity-resolving [LXSF22].

Discontinuous [Bal20, BNN20, FCL21, Hac21, Hig20, KKJ21, Mar20, ZYD20, AdS22, AÖR22, AMB22a, AMM+20b, AMM20a, ADM22, AHWZ20, BL22a, Bal21, BZSF20, BCF22, BB20b, BKY21, BWG+20, BV22, BX20, CHS20, CQY21, CBQ21, CK20, CLW22, CLDC20, CS21b, CZL20, CBBI20, CI21a, CI21b, CX22a, CMRR21, DY22a, DLP21, DCQ20, DH20, DY22d, DSZ22, DT20, DK21, DW22, EM20, FMWK20, FHWK21, FGKY22, FDP20, FX22, GK20, GA20b, GC20b, GAC20, HGT21, HMF22, HYQ20, HRY+22, HTL21, Hig22, HQ22, HR20, HLY20, JHY21, JTW22, JKJ20, JK20, JJ21, KGBT20, KSBG20, LCS22, LSXC20, LWR20, MBBV22, PRL22, PGS22, RR22, SL20b, SL22b, SM21a, WY22a, WY22b, XH22a, YH22b, ZSP20, ZS22a, ZQS20, AM22, BRT22, DHR20, PKG20].

Discontinuous-Galerkin [SL20b, SL22b].

Discovery [XCZ20, BT21, BCSK21, HZY22, XZW21, XDCF21, ZL21c]. discrepancy [PBJ+22, SM22].

Discrete [CJ21, KR22, KSK21, SMRW22, ZG20, BO22, BGR20, BPJ22, Cal21, CFM22, DD21, DC22a, FFY21, GKL21, HL22, HHS22, HSG+22, JLL22, KBC20, LW20a, MBB20, PRL22, PG22, RR22, SM21a, WY22a, WY22b, XH22a, YG20, YZSD21, YH22a, ZCS20, ZA21, DSG+22]. discrete-ordinates [BO22].

discretisation 1 [BM22, CJ21, PP22b]. discretisation 2 [AÖR22, BS22a, BH20, BO22, BDMP22, BMQ20, BRS22, CEL+20, CHG+20, CLS+20a, CZLC22, CMS+22b, DSBNF+20, GA20, HM0+20, HLX21, JK20, JJ21, KNL21, KSW22, LL21a, LRT+22b, MFC+20, MMR22, PKC22, RC20b, SKT20, STK21, USRH20, WLZ21, ZS22a, ZPR22].

discretisations 1 [BMV22, CJ21, PP22b]. discretisation 2 [AÖR22, BS22a, BH20, BO22, BDMP22, BMQ20, BRS22, CEL+20, CHG+20, CLS+20a, CZLC22, CMS+22b, DSBNF+20, GA20, HM0+20, HLX21, JK20, JJ21, KNL21, KSW22, LL21a, LRT+22b, MFC+20, MMR22, PKC22, RC20b, SKT20, STK21, USRH20, WLZ21, ZS22a, ZPR22].

discretizations 1 [BMV22, CJ21, PP22b]. discretisation 2 [AÖR22, BS22a, BH20, BO22, BDMP22, BMQ20, BRS22, CEL+20, CHG+20, CLS+20a, CZLC22, CMS+22b, DSBNF+20, GA20, HM0+20, HLX21, JK20, JJ21, KNL21, KSW22, LL21a, LRT+22b, MFC+20, MMR22, PKC22, RC20b, SKT20, STK21, USRH20, WLZ21, ZS22a, ZPR22].

discretizations 2 [BMV22, CJ21, PP22b]. discretisation 2 [AÖR22, BS22a, BH20, BO22, BDMP22, BMQ20, BRS22, CEL+20, CHG+20, CLS+20a, CZLC22, CMS+22b, DSBNF+20, GA20, HM0+20, HLX21, JK20, JJ21, KNL21, KSW22, LL21a, LRT+22b, MFC+20, MMR22, PKC22, RC20b, SKT20, STK21, USRH20, WLZ21, ZS22a, ZPR22].

discretization 1 [JPAZ21, Kho20, LP20b, WZ21a]. discretions 1 [PBO20].

dispersed 1 [CI21b]. dispersed 2 [PBO20]. Dispersion 1 [HYQ20, An21a]. Dispersion 2 [HYQ20, An21a, CKN22a, DGW20, LCR22, MFS+22, PBC20, SSPV20, FNM+21, ZPK22].

dispersion-diffusion 1 [SFNM+21]. Dispersion-dissipation 1 [HYQ20].

dispersionless 1 [Puk20]. Dispersive 1 [BBH+20, BDT21, CCER20, GKPT22, TCS22]. displacement 1 [VPL20].

deplacements 1 [FVY22, GLY20, JFH21]. dissimilar 1 [PRO22]. dissipation 1 [AK22, sClL+22, CDX+21, DhJ+22, FFR+21, FAHA20, FAA20, GMMS22, HYQ20, KDL21, LFA21, LY221, LCR22, LXS+22, MM21b, MD20b, PLL+21, RKV20, SEG22, TFXX22, TST20, WTX+21, WZTZ21].
dissipation-adjustable [DhJV+22]. dissipative
[GSZ20, KK22a, Li22, LL21d, MHW21, SBL22, TCK22, TCS22, YD20, ZS22b].
distance [GCV22, Nis21, WXZ22]. distillation [KKM21]. Distributed
[HLB20, KSHJ20, KHS20, SGPW21, ZLC†20, ZO21]. distributed-memory
[ZLC†20]. Distribution [STG20, AÑR22, Ara20, AR20, BCJM20, Cai22,
KKS21a, KKS21b, LRAQ22, SWG21, ZCYS20]. distributions
[HGS22, TT20, ZOC21a]. disturbance [GCV22, Nis21, WXZ22].
distillation [KKM21].
Distributed
[HLB20, KSHJ20, KHS20, SGPW21, ZLC†20, ZO21]. distribution
[ZLC†20]. distributions [HGSK22, TT20, ZOG21a]. disturbance
[PA21].
divergence [CBCT+21, DW20b, EOP20, Fu20, GEvWD22, KK20b, LZZ21b, LZLS21,
SCS22, WDS22]. divergence-conforming [CBCT+21]. divergence-free
[DW20b, Fu20, LZZ21b, LZLS21, SCS22, WDS22]. divergence-preserving
[GEvWD22].
diversity [ARR21]. dominance [ARR21]. dominant [MHY20]. dominated
[GFY20, LTD+22, LT20c, MM21a, SFGNMGN22]. Dormand [NNJ21].
Double [YFY22, ZCYS20, ECG22, HL20c]. Double-flux [YFY22].
double-sweeping [EEG22]. doubly [WNB21]. doubly-periodic [WNB21].
dozens [SZW+20]. DPG [MMPD21]. DPM [SMF20]. drag
[BL19, BLL20, SDA†21]. drift
[CDT22a, NWM21, RPA22, Sab20, SAH†22, WDK22, ZWZL22].
drift-correcting [WDK22]. drift-diffusion [RPA22, ZWZL22].
drift-kinetic [SAH†22]. drift-kinetic-equation [CDT22a]. drift-region
[MP21]. driven [ASSZ21, AMW22, BT21, BB20b, BSA21, BSA22, BBA22,
CHZ†21, CPH†22, CHS20b, DDP20, EPL21, FGB+20, GLLB20,
HSMR20, HZY22, JYK22, KV20, KH21a, KFP†22, KLF22, LKL22, LL†21c,
LHA†21, MH22a, MMF21a, PR21, SWG21, SSQ21, THH22, WDL†21a,
WC†21, WZSK22, WX20, XJ†20, XZWH22, XD22, ZB21b, ZDS†21,
ZL21c, ZAMG20, BSCG22, ZAW†20]. drop [MSK†22]. droplet
[ABH21, HRM21, MKH20, NKA†20, RKR20, XLH22]. droplet-related
[ABH21]. droplets [DU20, GHY22b]. drops [CDJM21, LWZ†21]. dry
[BFNK†21, Liu21]. DSMC [CSY21, FJ21, FHJ22]. DtN [RG22]. Dual
[BR22, DFS22, ZRH20, CWW22, FLW20a, GN20, GCD20, HHR21, HRL21, LZY†22b,
NG20, Nor22a, PP22b, Pan20b, PGTS21, Qia22, Sew21, WW20b, ZPG22, ZSKN22].
Dual-criteria [ZRH20]. dual-field [ZPG22]. Dual-pairing [DFS22]. dual-scale [GCD20].
dual-stage [FLW20a]. due [ARR21, SCL20, Vre20, Vre21b]. duration [NDH20]. dust [SDA†21]. dusty
[EM20]. DWR [LKEM21]. Dynamic
Dynamical [ARTB20, AHR20, BCWD21, BTK22, CM20, CL20c, CX21, CBA+21, CH22, EHW21, EDLF20, EPL21, EPL22, GFPO22, KK20a, LC20, PC21a, RPDO+21, SSW22, WKA+20]. Dynamically [DV20, BR22b, WGY20, ZMG+22]. dynamically-orthogonal [ZMG+22]. Dynamically-orthogonal/bi-orthogonal [ZMG+22]. Dynamics [RWY21, AAL+21, APR22, ACHG+21, AFL22, ALL22, AST21, BZ21, BDBB22, CQY21, CBQ21, Ca22, CAF+22, CBCT+21, CM20, Che20, CLLL20, CPGD20, DDR22, DC22b, EPL21, EMS+21, Far20, GC20, GRC+22, GAB22b, HJLY21, HYZH22, Kh21a, KVQ21, LS22, LWJ+22, LMS+22, LJ20, Lec21, LZX+22a, LLO22a, LTK+22, LLZ20b, LX21, LMR20, MFTZ20, MK21, MRT+22, NIT21, NMGR21, OL20, OSZ21, PL20, PJJQW22, RPA22, RW22, RE22, SRT20, Sar21b, SMC20, SLVRG21, SBC20, SRT21, SDA+21, SM22, UI20, Unf21, VK22, WCL+20, WH21, WSH22, YK22, ZEG20, ZS21a, ZW22].

dynamo [YYM+22].

CFM22, CD22, DGGL22, DSS+22, DWZ20, DJID20, EDLF20, GKR322, GLE+20, GFJ+20, HL22a, JL21a, KIHB21, KG20, KCCJ21, LCJ20a, LLQ21, LZF+20, LFT+20, LNC+21, LL21d, LX21, LM20c, MNG+22, MLY21, MPMD20, NW20, OBB22, Orn21, PLL+21, PK20, RS20b, RR22, RBP20, SWF21, Sin21, TTY22, TFCH22, TJ22, Vev21, WRB20, WGU+22, vW22, WWLZ21, XMY22, Xie22, Yua21, ZXBS22, ZLYS20, ZLC20, ZOEL20, vBBS20, efficiently [MCBA20],
eigenanalysis [MAPS20],
eigenmodal [MD20c],
Eigen solution [KdMJ22, KLF22],
eigenvalue [BCJM20, BZ20, HLZ20, HP22a, KAC22, LY22a, SML20, ZLS22],
eigenvalues [AIN20, CL20, CX22b],
eigenvectors [PJBB20],
Eim [GGN+20],
EIM [CGJM21],
EIM-degradation [CGJM21],
Einstein [CL21, DFR20, GC20a],
EL-RK-FV [NCQ22],
Elastic [AD21, LZ22a, LKvM+22, AMM20a, AL21, ABDD20, BB20b, BY20, CL20, CD21, CC22a, CLJ+20, DLL22, DFW22, GLL20, GAC20, HYQ20, LF20, Kar22, KFSM21, LZZ22b, MD20, TBM22, WGB22, WZ22, XHZ22, Yan21c, YK20a, ZZL20],
elastic-acoustic [GAC20],
elastic-perfectly [LZS22b],
elastic-plastic [CLJ+20],
elasticity [AEGV22, FC20b, RA2A21, ZFG21, ZZY+20],
Elasto [MMSW22, LZY+20],
Elasto-acoustic [MMSW22],
elasto-capillary [LZY+20],
Elastocapillarity [FTP20],
Elastodynamic [RG22],
elastoplastic [MN20],
elastostatic [MNG+22],
electric [AP22, FMJ21, FMOJ22],
electric-field [FMJ21, FMOJ22],
electrical [FY20, YSTK20],
electro [Kan20, KC20a],
electro-quasistatic [KC20a],
electro-thermal [Kan20],
Electroconvection [BW20, CWL+21],
electrode [FGD+21],
electrodynamics [KBC20],
electrohydrodynamic [LBM20, PHP21],
electrohydrodynamics [XSH20],
electrokinesises [WL221],
electrolyte [WZC21],
electrolyte-dielectric [WZC21],
Electromagnetic [LZL20, BAK22, CJLL21, CHZ22, CMS+22b, LY20b, LMUR22, LMHL21, Par22, PP22c, RC20a, Sem21, USRH20, ZZY21],
electromagnetics [MPSP22, RC20b],
electromechanical [RSA+22],
electron [CHS20, CDT22a, CCL22, HPR20, LCS22, SC22b],
electronic [DL22b, Duv21],
electrons [EC20, Lc21a],
electrophysiology [BBQ+21, Dv221],
electrostatic [Ere22, SGM20, SGM21, TRC22],
electrostatics [CEBG22],
electrowetting [ZR21],
Element [AEGV22, DSG+22, DY22c, Se22, ADK+21, Abg20, AYH+21, AMGL21, AD22, BP22, BS22a, BGN22, BAK22, BPM+22, BTEK22, BB20c, BR22, CH+20, CAG20, CJ21, CFM22, CMSS21, Coa21, Coa22, CMRR21, CMS+22b, DM21a, DMN22, DLY22, DW22, EFR21, EPI22, FSW22, FHT21, FCM20b, FZ21, GYWH20, GJLD20, GGB20, GGB22, GL20, HSXZ21, HRR21, He22, HSW21, HW20a, HXL21, HCL20, HLH21, Ish22, JY22, JWZ20, KK20b, KdL20, KB22b, KKH21, LP20a, LG22, LLY+22, Li20, LZ22b, LB21, LL22, Lin21, LT20b, LFZ21, LAN21, LY22c, MZ22, MFTZ20, MFB21, MFRZ22, MFS+22, NFA21, NKW22, NYY22, PHP21,
BGH21, DR20, Lep21, LYS22a, LZPM22, NÂ21, PCQL20, XM20]. ENO [LCW20, LZLS21, PLL+21]. Enriched [BZ20, CHT20, KNLB21, HRR21, WBN21]. enrichment [HW20a].

Ensemble [MLCM22, SSW22, HST22b, MLCM21, MTWBT21, ZMSX20]. ensembles [YG21]. Enriched [LCW20, LZLS21, PLL+21]. Enrichment [HW20a].

Ensemble [MLCM22, SSW22, HST22b, MLCM21, MTWBT21, ZMSX20]. ensembles [YG21]. Entropic [BT20, GT21]. entropies [Ran22]. Entropy [BKY21, Cha20, CLW22, DT20a, GCLM22, GS22, GMD22, KGN22, MRK+20b, Ren21, STG20, Svà21, WKW+22, ÂOR22, BWG+20, CT22, CMRR21, DT20, DT21b, DT22c, DW22, HRRHG21, JM22, Jai22b, JRD22, KK21, LCS22, LMFV22a, LMFV22b, MRK+20a, MGV22, Nor22b, NMR+22, PBN+21, RBD+21, RRHH+21, SWG21, Svà22, TKK22, UY22, YU22].


Equation [MOBR22, WK21b, ADK+21, An21a, ACÉ+22, AFGL20, AMM20a, BLF20, BGH20, BRT22, BO22, BAK22, BG20a, BVT20, BT20, BZ20, BGH21, BY20, CSY21, CCL21, CCWX22a, CDT22a, CLDC20, CLY21, CKT21, CWW20, CP20, DS22b, EH21, FZ20, FS22a, FGD+21, FMJ21, FMOJ22, Gar20, GKR22, GR21, GLL20, GS20, HPA22, HSW21, HGH20, HA21, HS20, HHRA19, HQ20, HRC20, HI20, JL21a, Jai22b, Jai22c, JWH20, JPA20, JWC20, JL20, JRD22, JBF21, KTD20, KST22, KS22a, Kar22, KS11, LL20, LSC20a, LKEM21, LPP+20, LM21b, LGZ21, L22, LSXC20, LYY20, LXDX20, LRW21a, LL22, LVS22a, LLWX22, LT22b, LQX22a, LIN21, LZ20b, LH21, LZY+22b, LM21c, LLS20, MRK+20c, MBAG21, MGL21, MCDF22, MRBC22, MRBS22, MPMD20, N22, NT20, NMR+21, OP20, OGVM20, PSL20, Pan20b, PZ20, RS20c, RBPR20].

equation [RA21, RWY21, RMWS21, Sar21b, STEK17, STEK22, SL20b, SL22b, SSSP20, SL22c, SMAY21, SCD20, SMW20, SQS20, SACT21, T22, TZN20, TB20, TBG20, TKR22, TS20, TL21, TPY22, VKE21a, VMBS20, VV20, WGW20, WZC21, WNB21, Wan22, WK20, WZBV20, Xia21, XF21c, XG22, YLK20, YCH21, YX22, YW22, YK20a, Yin21, YFLL21, ZWY21, ZOW20, Z20a, Zha22, ZXY22, aKAK20].

Equations [CCPS21, ADK+21, AdS22, AG21, AMB22a, ARGK22, AST21, AZ22, AHW20, AR20, AK21, ARR21, BDT21, BF21, BL20, BT21, Bal20, Bal21, BBH+20, BGNZ22, Bar21b, BFM21, BM21, BCIT22, BGGM21, BL21a, BP22, BKY21, BWG+20, BD+20, BP21, BGS+22b, BJL21, CCE+22, CM21, CP22a, CZ22a, CLW22, CHT20, CHSS20, CZ20a, CCY+20, CCWX22b, CJW22, CDX22, CN22, CSS20, CL20b, CTCS22, CCE+21, CB21, CB21b, CK21, CFP22, CSY20, CX22a, Coc20, CCHS20b, CA22a, CCd20, Cd22, CEM20, Den22, DY22a, DM21, DS22a, DLP21, DCG20, DH20, DYM20, DG20, DZ22, DFGR20, DT20, DV20, DFP+21b, EBC+22, EOP20, FPT20, FZQ21, FZQ22a, FH21, FJ20, FN22, FWNT21, FM22,
Eulerian

Euler/Navier

Eulerian-Eulerian

Eulerian/Eulerian

Eulerian/Lagrangian

Evaluating

Evaluation

evaporation

evaporative

Even

event

evolution

evolving

Exact

exact-interface-fitted

exceptional

exceptional

Exchangeable

extensions

extension

Extension

exterior

extinction

extract

extrapolated

extrapolation

extreme

extremum

extremum-preserving

Explicit
[FBG20, JL22]. find [PGS22, SZW+20]. finding [CW21]. fine [LCN20].
[LSW20, ZTS20]. **flood** [JADS21]. **flooding** [ZLC +20]. **Floquet** [GLT +20].

**Flow**

[EPL21, HSG +20, ARC22, ABH21, AdDMT21, ADP22, AK22, AP22, BVR22, BCP21, BEP +20, BKM21, BJ22, BE20, BX20, BR22b, CL21, CFS20, CZ22, CCM +22, CDT22b, CM20, CCHS20a, CHF21, CLS20b, CYS22, CYYS22, CGPD21, CSL21, CLP22, CELV21, CF22, CMNS21, CPBB21, CMRR21, CCW20, DSBFN +20, DS20, DLY22, DGPP22, DJF20, DJJD20, DFB20, EFS +20, EPL22, EK21, FTP20, FSWA22, Fu20, FS21, GBL20, GSFH22, GZW20b, GQ22, GWZ22, Hdb20, HSW21, HKS20, HTL21, HHH +21, HP21a, HM21b, HZ22a, IKP22, JRY +20, JL22b, JCKL21, JGR22, KSS21, KS21a, KS11, KHS20, KWD22, KDB +20, KKY +21, KJ22, KLP20, L21, LPL +22, LYL20, LZW20a, LTT21, LW22b, LGMV22, LYS22a, LHXZ22, LW22a, LSF22, LHT21, LBM20, LZZ21b, LMK21, LW20b, MR22, MLM +21, MS20b, NFA21, NAZ22, PS22a, PBN +21, PLL +21, PLV20, PSRM20, PBVC22, RHG22, Re21, RKV20, San20, SBH21, SBC20, SWG +20, SV21, SAL +20, Si20, SL20, T22, Uri20, VACE21, Vre17, Vre20, Vre21b, Vre21a, WL20, WCL +20, WNB21, WRL21, WCF22, WH22b, WCh22, SLS22, WZBV20, WGY +21, WK21b, XF21a, XCL +21, XZW21, YHC +22, Yang22, YA21, YHN22, YH22a, YZ20, YL21b, YP22, ZZ20, ZL21a, ZHP21, ZJ21, ZLB22, ZZX20, ZF20, ZD21, ZSN22, vHP22].

**flow-acoustic** [EK21]. **flow-coupled** [Yan21c]. **Flow-driven** [EPL21, EPL22]. **flow-finite** [ZJ21]. **flow-induced** [FTP20, ZHPZ21].

**flow/porous** [SWG +20]. **flow/porous-medium** [SWG +20]. **flowfields** [MH20].

**flows**

[ART20, AF20, AKWY20, BL22a, BDB22, BB20a, BV20, BV21, BBD +20, BL21a, BDMP22, BSV22, BFK +21, BDB21, BMQ20, BMNT22, Cal21, CCPS21, CAF +22, CPX22, CCL20, CCL +20, CDX +21, CW22b, CA20, CBB20, C21a, C21b, CRF +21, CCB22, CCM20, CSV +22, DV22, DCM22, DD22, DS22, D21, D20, DSI22, E22, EAA +22, EFO19, EFO20, F20, FC22, FCW21, FWG22, GFBN +20, GQS20, GMMS22, GFY20, GLK20, GTKA20, GDP21, GW22, GCL +22, HPW21a, HK22, HV20, HY2, HRY +22, HZ22a, HCL22, HGH20, HBF22, HSM20, HGB20, HT21b, HY22, HLA20b, HAL20c, HLA21, HLA22a, HLA22b, HZ22b, HP21b, IT22, JH20, JMA22, JMM20, Jai22a, JMM22, JKZS21, JP22, KM22a, KMM22b, KLS +20, KL22, KK22a, KSBG20, KKCL21, KKS +21c, KK21a, KD20, KK22b]. **flows** [KT20, LL20, LKY21, LL22, LW22, LVK +22, HLC22, LW20b, LOL20, LYY20, LNL21, LCR22, LCM22, LZP22, LZ22b, LL22, PLL22, LZ20a, LYT20, LSY20, LSC +20c, LNT20, LNC +21, LMZ +21a, LNT21, LYS +22b, LRT +22b, LCP21b, LFL +22, LLK20, LAN21, LY22c, MJ21, MA21, MCB20, MB21, MM21b, MIM20, MM21c, MM22, ML22, MFR22, MAPS20, MMZ22, NZXM21, OLS21, OCJ22, OYK +22, PA21, PC21, PCC22, PM21a, PJ21, PKG20, PR20, PR21, PLK22, PO21.
Pop20, REC+22, RUG20, RLH22, RR22, RWDG22, RZH20, RSA+20, RE20, RE22, SOV21, SCB20, SPF21, SGPW21, SEG21b, SC22a, SAS+21, SRD20, SPZ22, SKTK21, SKCM22, SZW+20, SLOZ21b, SLOZZ21a, TKK22, TT22b, TZM+20, TGS+22, UBT22, UD22, VTC20, WTF22, WQZP20, WHH22a, WYS20, WABK21, XLXC20, XJN+20, XS20, XHX22, XYL22, YGW+20, YZSD21, YLW21, YFY22, YL21a, YH22b, YDC22, YWS, [ZEG21, ZX20, ZXBS22, ZCYS20, ZCL20, ZMWS22, ZSsC22, ZR20, ZLW21, ZCY21, ZZN22, ZSQ21, ZPS21, ZO21, ZGK22, ZWB21, ZOEL20, dSLdA22, vNGB22].

free-boundary [EFR21, MZ22]. free-energy [MRK+20c, NMR+21].
free-energy-based [HT21b]. free-surface [JKZS21, LMZ+21a, MSK+22, Pop20].
freezing [LWZ+21, SDP20].
Frequency [vtWHG+22, Ani21, CBF22, GLT+20, ILX22, JL21a, LE21b, MGA20, SH22, SZ21, TBM22, TZNHD20, XSC21, YCC+22].
frequency-dependent [XSC21]. frequency-domain [TBM22].
Frequency-robust [vtWHG+22]. friction [CFS+22, GBLT20, WWYC21, YYX21].
frictional [BDMP22, MCT21].
Friedrichs [OKTD21]. friendly [BZC+22].
front [BTCV22, GEvWD22, IKP22, TZ21, FO22]. front-tracking [BTCV22, IKP22, FO22].
Froude [HXX22].
Frozen [HRMY20].
Fuchsonian [BL21a].
full-field [YWN20]. full-potential [Dup21].
full-range [MCBA20]. Full-waveform [AN21b, AL21]. Fully [CK21, LYS22a, LLCK20, TBM22, WZSC22, YH22a, Abg20, AT20, ATCS20, BB20a, BGGM22, CY22b, CYS22, CEBG22, CMS+22b, DDVO21, FCWS22, GBLT20, GNF22, HHS22, LSS20, LTD+21, LL20, LT21, PP22b, RR22, SM121a, SRTB21, TCK+22, VMO21, Yan21c, VTK22, ZA21, ZHY22].
fully-decoupled [CY22b, Yan21c]. fully-discrete [HH22]. fully-ionized [CMS+22b].
Function [BB21, CJT+20, CL20c, DYMC20, DFJ20, GMB+22, GKRS22, HZTN21, HYM20, JYY22, KLN20, KL22, LSC20a, LYS+22b, MGL21, MK20, Ste22, TVL+22, TPYX22, YDC22, ZCH22, ZCY20].
function-based [LYS+22b, ZCYS20]. functional [AFL22, BGSP22, LRFV22, MYM+22, RPDO+21, TMG20, VGK21, WZ21a, YB22].
functionalized [ZOWWW20]. functionals [CZ22a]. functions [Bar21a, BFL20, CCL22, CCM+22, DN21, DW20b, FZS+21, GJL20, GD21, Ha21c, JKK20, KKN20, KEY20, KB22b, LCL22a, Li22, MO22, PKL+21, PPK22, WQZP20, WSAZ22, WWZ20]. fusion [BS22b].
FV [NCQ22, BBD+20, PWH+22]. FV/FE [BBD+20].

Galerkin
[LMFV22a, ZCQ20a, ADK+21, AdS22, AÖR22, AMM+20b, AMM20a, ADM22, AM22, AHWOZ20, BL20a, Bal20, Bal21, BRT22, BZSF20, BCF22, BGGM21, BKY21, BWG+20, BN20, BV22, BX20, CHS20, CQY21, CBQ21, CWW22, CK20, CLW22, CLDC20, CZL20, CBBI20, CI21a, CI21b, CX22a, CX22b, CBB22, CMRR21, DEN22, DY22a, DCGQ20, DH20, DHR20, DY22c, DY22d, DSZ22, DT20, DK21, EM20, EH22b, FMWK20, FH22, FGKY22, FCL21, FX22, FCY+20, GQR21, G20, GAB22b, GC20b, GAC20, GHTC21, GLLM22, Ha21c, HMV22, HYQ20, HTL21, Heu21, Hig20, Hig22, HSMR20, HQ22, HR20, HLY20, JTW22, JK20, JK20, JJ21, KNLB21, KGBT20, }
KSBG20, KMF20, LCS22, LTD+22, LSXC20, LWR20, LLNL21, LLL22, LM20a, LSZ21, LMFV22b, LAN21, MSC+20, MN21, MRK+20a, MRK+20b, MRK+20c, Mar20, MOBR22, MGMV22, MAPS20, NdiLPL21, NMR+22, Galerkin [NMR+22, PP22a, PKG20, PZ20, PBN+21, PH21, PS22b, PD21, QLY21, RMD20, RBD+21, RRHH+21, RRFK+21, SSK20, SLWRG21, SL22b, SMAY22, SCdHJ20, SJGC21, SKCM22, SP22, SX20, SSX22, TCS22, TCR+20, VCNC+21, WRH20, WTX+21, WKW+22, WZL21, XSSS22, XS22a, XS22b, YIX21, YX22, YK20b, YH22b, Yua21, ZSP20, ZB21b, ZS22a, ZCQ19, ZCL20, ZZ20, ZZYX20, ZQS20, ZYD20].

Galerkin-Finite [GAB22b]. Galerkin-Hermite [BCF22]. Galilean [LM21a]. games [ALFN22, LFY21, MYZ22]. gaps [BCJM20]. Gas [MA21, SDA+21, CPX21, CPX22, CCE+21, DevW20, EM20, FZLL20, GAB22b, HGH20, HLA22a, JZSX20, LVK+22, LCJ20a, LLZ+20a, LLQC21, LCZ20, LCJ+20b, MZC+22, NBR22, PZX20, PR20, SKT20, Sar21b, SLWRG21, SSS20, SKCM22, SZW+20, TTM+20, Uil20, Unf21, WNZ20, WABK21, WLZP21, XCL+21, YGW+20, YJS20, ZCS20, ZS21a, ZL21b, ZLW+22a, ZNN22, ZJSX22, ZG20, ZPS+21].

Gas-dust [SDA+21]. gas-gas [CZL20]. gas-kinetic [CPX21, CPX22, JZSX20, LCJ20a, LLZ+20a, LLQC21, LCZ20, LCJ+20b, MZC+22, NBR22, PZX20, PR20, SKT20, Sar21b, SLWRG21, SSS20, SKCM22, SZW+20, TTM+20, Uil20, Unf21, WNZ20, WABK21, WLZP21, XCL+21, YGW+20, YJS20, ZCS20, ZS21a, ZL21b, ZLW+22a, ZNN22, ZJSX22, ZG20, ZPS+21].


Gauss [BEP+20, DBT+20, HSH20, LXD+20, PPHO22, RRKF+21, SLQW22].

Gauss-kriging [HSH20]. Gauss/anti [PPHO22]. Gauss/anti-Gauss [PPHO22]. Gaussian [ABOS22, BKY21, BGD21, CL20b, CHOS21, CCN21, DS20, HRMY20, IT22, JLRZ20, LT20a, MRT+22, MYZ22, STG20, STB+21, WLPK20, WSA22, XCL22, ZMK21].

GBS [GRC+22]. GCR [GB22b]. GDM [BBH+20]. Gegenbauer [FA22, KKO22].

GEGS4-1 [WMTQ20]. GENE [MND+20, RNSK21].

GEGS4 [MND+20]. General [CD22, SOSM20, ZPS+21, AT20, ASW21, ACÉ+22, Ara20, BD20a, CS20, DGGL22, GYWH20, GKA22, HK20, KAO+20, Lem20, LSS22a, LHA+21, NNL+20, PGTS21, RBPRST20, Sha21, TT22b, ZML20, ZW22, ZZ22].

generalised [PHJ22, PB22, Poe22, SPF21, TGS+22, WDK22].

generalization [GCSH22, RR21b]. Generalized [AEGV22, CGC21, CHS20a, DJ22, Kan20, LLO21, WTX+21, ZS21a, BCG+20, CSM20, CX21, CHF21, CNC21, DCHF21, DC21, DS22b, EAK20, FCM20b, FZ21, GB22b, GGEJ20, GLLB20, GDF21, HQ22, KBCH20, KBB+20, KD21b, LW20a, MCVF22, MRG21, MPMD20, Osi20, RNY21, Sin21, WH22b, YD20, YRH22, ZS22b, AEGV22, BBH+20, GTHA20, GKA22].

generate [DBD21]. generated [AWB+20, LX21, NTSM20, TVL+22, TSS+20, WXZ22]. generating [CP22b]. Generation [KKN20, ADM+21, BGR20, KL20, KKM21, LPS21,
36

MN22, VCNC+21, WWN+22, YJK21, YKdHC20. generative
[GN22, KS22d, RK21, WW20a, WKA+20, XZ22]. generator [PWXY22].
generic [KKN20]. genetic [XCZ20]. Gennes [GC20a]. genuinely
[QSZB20, ZQS+21, ZQL+22]. geodesic [H22, ZAMG20]. geological
[KFSM21, KH12]. geomatics [BKMC21, DZJ22]. geometric
[BGNZ22, CS21c, EBC+22, MMZR21, PP22a, RGSR21, RAZA21, SMV22,
TACO22, ZP20]. Geometrical
[BMV22, HCL22, FMB20, LBN21, MKB20, PL20, ZNN22]. geometries
[BG20c, CCM+22, CLP21, DFW22, GAB22b, GFF20, HST22a, JHY21,
KM22b, LLN22, MWY+20, MBE21, MRZ21, SRTB21, SY21, Ste22, TB21,
WZBV20, XLS22, YGL20, YB22, ZG21]. geometry
[BT22, DS20, FLZ20, FLW20b, GSW21, Gar21, LHM20, LJZK21, MBBV22,
SYOS19, SYOS21, TNB21, VCPGR20]. geometry-adaptive [GSW21].
geostatistical [ZZK20]. geostrophic [CHT20]. Germano [TL21].
German [CCWX22a, LXD+20, YCH21]. GINNs [HTKT21]. Ginzburg [ZOG21b].
given [PGS22]. glacier [Bri22]. Glauert [BRT22]. GLM
[CPGD21, DFG20]. Global [Bla20, FFGRS+20, SSPV20, LT22a,
MND+20, QCD21, STEK17, STEK22, SOBP22, WK20, Yun21a]. globally
[KBCH20]. GMLS [GTKA20, GKA22]. GMsFEM [CP20]. Goal
[DSIPP20, JO22, AF21, FC21]. Goal-based [DSIPP20]. Goal-oriented
[JO22, AF21, FC21]. Godunov
[sCP22, GLM22, HKS20, LL21b, XZC21]. Godunov-type
[sCP22, GLM22, LL21b, XZC21]. Gordon
[GGL22, SZ21, AZZ2, JWBC20, SQSS20]. governing [HZY22, SRH21].
governing [TL21]. GP [BL22b], GP-MOOD [BL22b]. gPC [Poe22]. GPR
[DD22b]. GPU [SAZ+20]. GPUs [ZD21]. Grad [ELSV22]. Gradient
[CBA+20, DBT+20, HSW21, HW20a, AE20, BZ20, BCC+20, CL21, CN22,
GWC+22, GZW20b, HCCR22, KS22a, Kar22, KNS21, Lem20, LIW20b,
SML20, TT22b, TFW+20, WQR20, WDL21b, WDL21c, WK21a, Wan22,
YHC+22, ZEG21, BMQ20]. Gradient-based
[CBA+20, GWC+22, KNS21, YHC+22]. Gradient-consistent [HW20a].
gradiant-index [SML20]. gradients [NW20, WH22a]. granulated
[BT21, RK21]. granulating [CPX21, KK20a]. granular
[BFNK+21, EM20, LY20a]. Graph [FBD+22, HTKT21, CCPS21, PGS22].
Graph-based [FBD+22]. Graph-Informed [HTKT21]. graphene [SML20].
graphics [BEP+20]. graphs [THH22]. Grassmann [OA21]. gravitating
[PM22b]. gravitating [SLWRG21]. gravitational [JTW22, LG21]. gravity
[AV20, DDVO21, MFRZ22, TPK20, WKW+22]. gray [XSSSS22, XJS21].
greedy [DFP+21b, FZS+21]. Green
[BB21, GKPT2, RHSSK21, VGG21, BFL20, CEM+22, DBT+20, DYMC20,
GMB+22, GKR22, GD21, Mar20, MGL21, RB22, TPYYX22, YDC22]. Grid

heterogeneous  [AFV20, AYH+21, BMQ20, CFSH20, Coa22, DT22a, DGS20, FTY+22, FCL21, GTDB22, GC20b, JGR22, KNLB21, LH21, MW22, MD22, SMW+22, TBM22, WL20, WSAZ22, YSCM21, dSLdA+22].
HEVI  [Bal21].
Heydari  [Pan20b].
LVK$^{+22}$, LH20, NFL$^{+21a}$, NFL$^{+21b}$, NBR22, NWK22, PZX20, Pan$^{20a}$, PP22b, PBN$^{+21}$, RMWS21, Say22, SBL22, XBH$^{+22}$, XH20, YU22, ZQS20, ADP22, AP20, AMM$^{+20b}$, BBH$^{+20}$, BL22b, BL21b, Cam21, CPX21, CBF22, CND22, CND$^{+22}$, CLP21, CCE22, CCdS20, CMRR21, CNMC21, CA22b, CCLM22, DHM21a, DS22a, DC21, DHR20, DY22b, DY22c, DK21, DGW22, FMWK20, FML21, GDLL22, Gla21, GZW20b, HGB20, HL20a, HZ22b, dMKJ$^{+22}$, JZSX20, KBB21, KLF22, KdMJ, KdL20, LCJ20a, Li20, LLQC21, LCR22, LRW21b, LM20a, LYS$^{+22b}$, LZCC22, MHW22, MGA20, Mon21, NS22, HPS20, PPP21b, PS22b, PD21, QG21, RUG20, Ren21, SMSAGG22, SEG21b, SEG22, SEG21b, SEG22.

high-order [SRV21, SWF21, SAP22, SS22c, TFWX22, TJC21, VVRWT21, WGY20, WTX$^{+21}$, WAK21, WZBV20, XDLX21, XBL21, YSCM21, YJSX22, YOH$^{+20}$, ZSP20, ZML20, ZL21a, ZJSX22].

high-order/low-order [PM21b].

high-plasma-frequency [SZ21].

high-resolution [HKS20, KIHB21].

high-Reynolds-number [YLW21].

high-speed [HFB20, HZ22b, NKA$^{+20}$].

high-throughput [ZO21].

higher [BBW$^{+21}$, VVL21, VK22, YGL20, ZF20, BL20, CS22, DYGC22, GCSH22, IMJ20, PH22, WHS22, YK20b, ZQS$^{+21}$].

Higher-order [BBW$^{+21}$, VK22, YGL20, ZF20, CS22, DYGC22, IMJ20, PH22, WHS22, YK20b, ZQS$^{+21}$].

Highly [YM21, ZQYS20, BFKB21, CMR21, DDR22, DV22, FCY$^{+20}$, HP21b, KTDG21, KDA$^{+20}$, LL21d, MWH21, MD22, ZD21, dSLdA$^{+22}$].

Highly-concentrated [ZD21].

highly-Stable [BFM21, CMR21].

Hilliard [GLT$^{+20}$].

Hilliard-extended-Darcy [LYZW21].

HLL [FLW20b].

HLLC [CLJ$^{+20}$, FAA20, HKS20, LZS22b, YJSX22].

HLLD [MM21b].

HLLM [HYZ22].

HMC [CSASS21].

homo [LD22].

homogeneous [GR21, HQ20, PZ20, WZW21].

homogenisation [FBD$^{+22}$].

Homogenization [HL20b, LJ20, BBPR21, CEL$^{+20}$, GDAP20, LLC22, LLF$^{+22}$, YSCM21].

homogenization-based [LLZ22].

homotopy [JWH20].

horizontal [CS22b, JRD22, KK22a, LCG22b, LSW20, LLCK20, LWZ$^{+21}$, MRYS20, MMdMB22, NFA21, OYK$^{+22}$, PM21a, RWBS21, SL22a, SRTB21, SMY22, SCL20, SC22b, VPDD22, WX22, XDLX21, XHX22, XY20b, ZY20b, ZOWW20].

homogenization [HL20b, LJ20, BBPR21, CEL$^{+20}$, GDAP20, LLC22, LLF$^{+22}$, YSCM21].

homogenization-based [LLZ22].

hourglass [SLQW22].

hp [MFS$^{+22}$, RMD20, MAPS20].

hp-adaptation [RMD20].

HPC [WGU$^{+22}$].

Hugoniot [GKL21, LZS22a].

human [DV22, DFP$^{+21a}$].

HWENO [JZSX20, LSQ21, LRAQ22].

Hybrid [FMWK20, HA21, MFK21, ZS21b, AdDMT21, BFG22, BBD$^{+20}$, CNC21, CCLM22, CCH20, DR20, ELZZ22, FQZ21, FK22, FL20b, GTD22, HL22b, HPRW20, HP21b, HS20, Ish22, Jai22c, JRD22, KK22a, LG22b, LSW20, LLCK20, LWZ$^{+21}$, MRRY20, MMdMB22, NFA21, OYK$^{+22}$, PM21a, RWBS21, SL22a, SRTB21, SMY22, SCL20, SC22b, VPDD22, WX22, XDLX21, XHX22, XY20b, ZY20b, ZOWW20].

high-order [SRV21, SWF21, SAP22, SS22c, TFWX22, TJC21, VVRWT21, WGY20, WTX$^{+21}$, WAK21, WZBV20, XDLX21, XBL21, YSCM21, YJSX22, YOH$^{+20}$, ZSP20, ZML20, ZL21a, ZJSX22].

high-order/low-order [PM21b].

high-plasma-frequency [SZ21].

high-resolution [HKS20, KIHB21].

high-Reynolds-number [YLW21].

high-speed [HFB20, HZ22b, NKA$^{+20}$].

high-throughput [ZO21].

higher [BBW$^{+21}$, VVL21, VK22, YGL20, ZF20, BL20, CS22, DYGC22, GCSH22, IMJ20, PH22, WHS22, YK20b, ZQS$^{+21}$].

Higher-order [BBW$^{+21}$, VK22, YGL20, ZF20, CS22, DYGC22, IMJ20, PH22, WHS22, YK20b, ZQS$^{+21}$].

Highly [YM21, ZQYS20, BFKB21, CMR21, DDR22, DV22, FCY$^{+20}$, HP21b, KTDG21, KDA$^{+20}$, LL21d, MWH21, MD22, ZD21, dSLdA$^{+22}$].

Highly-concentrated [ZD21].

highly-Stable [BFM21, CMR21].

Hilliard [GLT$^{+20}$].

Hilliard-extended-Darcy [LYZW21].

HLL [FLW20b].

HLLC [CLJ$^{+20}$, FAA20, HKS20, LZS22b, YJSX22].

HLLD [MM21b].

HILLET [LLS20].

HILLEM [HYZ22].

HMC [CSASS21].

homo [LD22].

homogeneous [GR21, HQ20, PZ20, WZW21].

homogenisation [FBD$^{+22}$].

Homogenization [HL20b, LJ20, BBPR21, CEL$^{+20}$, GDAP20, LLC22, LLF$^{+22}$, YSCM21].

homogenization-based [LLZ22].

homogenized [PZ22, ZOG21a].

homotopy [JWH20].

HOMP [DC21].

Horizontal [GS21].

horizontally [Bal21, LP21].

Hosseininia [Pan20b].

hourglass [SLQW22].

hp [MFS$^{+22}$, RMD20, MAPS20].

hp-adaptation [RMD20].

HPC [WGU$^{+22}$].

Hugoniot [GKL21, LZS22a].

human [DV22, DFP$^{+21a}$].

HWENO [JZSX20, LSQ21, LRAQ22].

Hybrid [FMWK20, HA21, MFK21, ZS21b, AdDMT21, BFG22, BBD$^{+20}$, CNC21, CCLM22, CCH20, DR20, ELZZ22, FQZ21, FGK22, FJ21, FLW20b, GTD22, HL22b, HPRW20, HP21b, HS20, Ish22, Jai22c, JRD22, KK22a, LG22b, LSW20, LLCK20, LWZ$^{+21}$, MRRY20, MMdMB22, NFA21, OYK$^{+22}$, PM21a, RWBS21, SL22a, SRTB21, SMY22, SCL20, SC22b, VPDD22, WX22, XDLX21, XHX22, XY20b, ZY20b, ZOWW20].
NZXM21, OSL22, PBVC22, QKG21, RSWD21, RB21, SWHJ22, SDA+21, TF20, VSS21, VSB+22, YK20a, ZTS20]. interactions
[HVB21, KBSF22, MAP+20, OB20, PB20a, QWZ21, SGM21, TCA21, VEC21, WWYC21, XHC22, ZRH21]. interconnected [LZL21]. Interface
[MT21, QJQW22, ABH21, AnIL20, ASKH21, AD20, AD21, BL22a, BG20b, BGSP22, BSW+22, BSV22, BZ20, BBA22, BSP21, CSX21, CWW22, CLS20b, CCS20, DY22a, DU20, DSPB22, FZ20b, FO22, GGCvR22, Gao22, Gao21, GL20, GZ21, HLL22, HLY20, JMM20, JHY21, JWZ20, KC20b, KSH22, KS22a, KB22b, KB22a, LCCM22, LYZZ22, LPL22, LPC21b, LAN21, MMZ21, M21, MIM20, ORS21, ORU21, PWXY22, PG20, QHG21, QHL20, QLY21, RV22, RSWD21, SCB20, SBC20, SRD20, TWF+20, VMO21, WBN21, WZ20, WWYC21, WZY21, WL22, XFL21, XSHH20, XYL22, ZMWS22, ZSY21, ZAMG20, ZG22, CD22].
interfacial [BHK+22, CLLL20, DWZ21, LZX+22a, MS20a, WFT22, WYS20]. Interior [FCL21, CLW20]. internal [CSCL20]. interphase [OCGT22]. interplay [WCL+20]. interpolate [AK21, LD22]. Interpolated [BB21].
interpolating [ADK+21]. interpolation [ALC20, GD20, GFvWD22, KSH22, KDB+20, KR22, LKG+20, NY21, OA21, SCS22, ZB21a, ZJ22].
Intrinsic [BFP21, DL21]. introducing [Sab20]. Introduction [YGJ21a, YGJ21b].
Intrusive [KF20, DFP+21b, JAD21, OA21, SM22, XLL21]. invariance [LM21a].
Invariant [Yan21b, DLJW22, GPS20, MVO+22, WLH21, WXZ22, ZQYS20].
invariant-conserving [ZQYS20]. invariants [CHSS20, L22]. invasive [BVR22]. Inverse [CMG21, RT2B0, AN21, AL21, BS22b, CZ22a, DZ20, DLM22, FZ21, GLWZ22, GGN+20, GWZ22, HR22, HSS22, HFB21, ILX22, JMAK22, KS22a, Kho20, KNS21, LT22b, LWZ22, LMK21, LSTZ21, MNG+22, MK20, MRG21, MTWBT21, PZ21, Par22, PN22, SPdS+21, WCZ22, XZ22, XD22, YM21, YND22, ZMSX20, PMACG21].
inverse-PDE [PMACG21].
involving [HSXZ21, LY20b, MWY+20, XYL22, YK20a]. ion [DWZ20, FSW22, SC22b, XC20, Xie22, ZGL20]. ionized [CMS+22b].
IPDG [YCC+22]. irritated [FG+20]. irregular
[CLS+20a, CP22, CCs20, GSW21, KM22b, LSH20, MRYS20, Nis21,
RS20c, RFZ22, SWF21, WCF+21, YLNT20, YLS21, ZL22. irregularly
[SWHJ22]. isentropic [BJL21, DT22b]. ISMC [Poe22, SH22]. isogeometric
[ID20, LKEM21, MTO21, ZXD22]. isometry [BNN20]. Isoparametric
[BNP+22]. isosurface [LEH+21]. isothermal
[JW21, KL22, LPM+20, WS22, WLZ21]. Isotropic
[JTK22, CPX21, SMAY22]. Issue [EFS+20, ZX20]. issues [TBD+20, Uil20].
Itô [CCHS20b]. Iterated [HSS22]. iteration
[BGSP22, KWMF22, LZY22a, VGY21]. iterations
[HL22a, SZW+20]. Iterative [EHL+20, Ani21, CZLC20, GW20, HA21,
HWY20, Kar22, KCCR22, XC20, Xie22, YKdHC20, ZY20b, ZPS+21]. IV
[YB22].

J [Abg20, ACML20a, BLL20, EFO20, GRT21, HPA22, LMFV22a, MM22,
SZN20, SYOS21, STEK22, SS22b, Vre21b, Vre21a, YGJ21a, ZCQ20a, ZC22b].
Jacobi [BCJM20, CSY20, DM21, FPT20, GHTC21, HA21, KNT22, LPP+20,
MYL21, PKL+21]. Jacobian [CT22, HBF20, LL21a]. Jacobian-free
[LL21a]. January [Ano20e, Ano20q, Ano21e, Ano21q, Ano22e, Ano22q].
[Pan20b]. July [Ano20f, Ano20r, Ano21f, Ano21r, Ano22f, Ano22r]. jump
[BG20b, Cal21, CK21, CcdS20, WZ21]. junctions [GLJ20]. June
[Ano20g, Ano20s, Ano21g, Ano21s, Ano22g, Ano22s].

k-exact [SEG21b]. Kac [YZdCNS21]. Kalliadasis [Abg20]. Kalman
[MLCM22, BJ21, HST22b, HSS22, JZ22, MLCM21, SSW22, ZMSX20].
Karhunen [LT22b, TBH21, TBT20]. KEEP [KK21, TKK22]. Keller
[QL21, WZSC22]. Kelvin [Kan20]. Kernel [AB22, CL20d, CSY20, DS22b,
EMS+21, GW20, LBSR20, ILNZ21, NY21, WYP22, XY20a, YY+22].
Kernel-Based [CSY20, CL20d]. kernel-free [XY20a]. kernels
[ABOS22, CI21b, HQ20, KKN+22]. Kerr [HLH21, PBCL20]. Kerr-Debye
[PBCL20]. kind [BBO+22, HJ22, KS11, PSL20]. kinds [HHL22].

kinematics [MM21a]. kinetic
[AP21, ATCS20, BBC21, BR22a, BTZ22, BJ22, CHS20, CPX21, CPX22,
CT22a, CBY21a, CBY21b, CEM20, Edo22, EFSH21, GRC+22, GT21,
HGH20, HL22b, HPW21b, HSB20, HJ22, JM22, JZX20, KC20b, KK21,
LC20a, LLZ+20a, LLQ221, LZX20, LK22, MRBS22, NKT21, NWM21,
PZS20, PCQL20, SWG21, SMT20, SL20b, SL22b, SSS20, SAH+22, SC22b,
TZ20, VVL21, WNN20, WLZP21, XLC20, Xie22, XF21b, XF21a, XCL+21,
YJS22, ZCYS20, ZL21b, ZPGR22, ZLW+22a, ZJSX22, ZG20b, ZPS+21].
kinetic-diffusive [MRBS22]. kinetic-energy [KK21].
kinetic-energy-preserving [Edo22]. kinetic-fluid [BTZ22, HL22b].
kinetic-ion [SC22b]. kinetics [KOM+22, KAC22]. kink [HCL22]. KIOPS
[GRT21, GRT18]. Klein [AZ22, GLM22, JWC20, NMGR21, SQSS20, SZA21].
KNOSOS [VCPGR20]. knowledge [CHZ+21]. knowledge-based
[CHZ+21]. Knudsen [LSC+20]. Kohn

Kutta-Summation-By-Parts [LNF20].


Lagrangian [LL20, AST21, BLL19, BHK+22, CBBJ20, CCB22, HFB22, SGPW21, ZSKN22].

Landau [CCWX22a, CC20, LXD+20, LRW21a, SIS+20, YCH21, ZOG21b].

Landscape [YZZZ22]. landslide [FFGRLS+20]. Lane [DMR20]. Langevin [DS22b, GLLB20, HL22b, LLZ20b]. LANS [BABD21].

Laplace [DMHT21, GD21]. Laplacian [AD20, GLLM22, HZD21, HKKS21, LPG+20, PDPK20].

Large [PBO20, AP21, BNN20, BGNY22, BCC+20, CCWX22a, CMH20, CJLL21, CC22b, CBA+21, CEGB22, DS22a, DFP+21a, DFW22, FVM22, FBG20, FCL21, HZHL22, HRWP22, KS21d, LM21a, LCP21a, LWY+20, LD20b, NNJ21, SOG+22, SMF20, SS22b, SS22d, TTSP21, WGS+20, WH22a, WGY+21, XBD+20, XHZ22, ZO21, vNGB22, Sva22].

Large-eddy [LM21a, LCP21a, SMF20, SS22b, SS22d, vNGB22].

Large-scale [AP21, CBA+21, DS22a, FVM22, LWY+20, TTSP21, ZO21].

Laser [CMS+22a, CIM21, LSC20b, MAP+20, NTSM20, TCA21].

Latent [CPH+22, LMS+22].

Lattice [AWB+21, GDF21, HJK+21, LL20, AWB+20, BSR20, BGGM22, CW22b, DYM20, DF20, Gin21, GFJ+20, HPW21a, HTV+22, KS21d, LKY21, LSZ20, LH22b, LLD20, LLD+22, MWY+20, MTB22, PAA21, QKG21, Reii22, RR22, SOG+22, WS22, WGY+21, YDC22, ZHP221, ZZZ20, AYH+21, RS020]. Lattice-Boltzmann [GDF21].

Lattice-Boltzmann-finite [AYH+21].
[HZY22, MN21, MVO22, SM21]. laws [BKC22, BL22b, BCCD22, CMP21, CJ21, Cha20, DLWW22, FTZ22, GKL21, HMO20, Hua21, Kiv21, KGN22, KWF20, KdL20, LZZ21a, LSQ21, LDO22b, LD20b, LA21, LSTZ21, LpW21, MYM21, MVO22, PPP21, PD21, RBF21, SSK20, SAP22, SLNM21, TFWX22, WKW22, XS22b, YNT20, ZHR20, ZCQ20b, ZQ20, ZBB21]. Lax [BKC22, DSZ20, FLW20b, LSTZ21, XS22b]. layer

[ADM21, DSBFN20, DHMT21, HBFB20, Hig20, KSTT22, KKCC20, LZX22b, Liu21, MBM22, MD20c, YW22]. layered

[FGD21, Nic22, WCZ20, WZC21]. Layers

[MBAG21, CLT21, DR20, DZ22, Eld22, Hig20]. LBM

[JLCT22, LOL22]. LDG

[BGNY22, PCQL20]. leapfrog

[CSASS21]. Learning


Level


Leverett [AFV20]. Lévy [ZMK21]. Lewy [OKTD21]. library

[XC20, CD22]. Lie [CC22b, ZQ221b]. Lifshitz [CCWX22a, LX20, YCH21]. lifting [XFI21]. LightAMR [SC22c]. lightning [MN20]. like [HLZ20, NT20]. limit

[BPT20, CLY21, CSS20, DW20b, JTZZ22, KCK21, LLZ20b, SZ21]. Limitations [CSA21]. limited
Low-cost [KSS21]. Low-dissipation [CDX+21, TSTH20, KD21a, LFA21, LXSF22, MM21b, TFWX22].
Machine [ADM22, CFS+22, DJ20, DGPP22, HJLY21, HCCR22, YG21, AMK+21, BGS+22b, CWHZ21, CHZ+21, CCN21, FC21, FO22, GJF20, KK20a, LGG22b, MGT+21, POS+20, TBH21, THH22, WLS+20, ZAW+20].
machine-learning [CCN21]. machines [DL21, DY22b, TPS20].
Macro [EH22a, HHVM20, HJH+21, HSB20]. macro- [HHVM20, HJH+21]. macroscopic [AEGV22, RE22, ZLW+21].

M [Abg20, Pan20b, HYM20]. MAC [CJW22, DSS20, SCS22].
Mach [BDL+20, BP21, sCP LL+22, DSPB22, GMD22, HTL21, JP22, KSBG20, KD21a, LP20b, MM21b, MD20b, OCGT22, YFY22, ZGK+22, vNGB22].
magnetic [AKK20, CC22b, GGB22, GR21, HLB20, WDS22, YYM+22]. magnetization [EMS+21]. magnetized [FZQ22b, NWM21]. Magneto [HP22a, DT22c, NKW22]. Magneto-hydrodynamic [HP22a].
magnetohydrostatics [MFG22]. magnetostatics [DD21, Sar21a].
magnetotelluric [YRC+21]. Maier [SVW21]. Manifold [CJMZ22, BF22, OA21].
manifolds [AHR20, BT22, GTKA20, LC20, LRT22a, PR21]. Manufactured [FMJ21, FCBM22, TRC22]. many [WBN22]. many-body [WBN22]. map [The21].
Mapping [IT22, YMY+21, HYM20, SZN19, SZN20].
mapping-function-free [HYM20]. maps [GGN+20, GQ22, LLM20].
Marangoni [HPW21a]. March [Ano20h, Ano20t, Ano21h, Ano21t, Ano22h, Ano22t].
[RAZA21, VRAM21, JGM+22]. Master [HGH20]. Matched
[MBAG21, DZ22]. Material [BBH+20, CHS20, KKS21a, KC20b, KK22a,
LSLH20, MNG+22, NLZ+22, RGH+22, TCR+20, VSS21, VKR+22, WBN21,
WWYC21, XBH+22, XYL22, ZPK22], material-dependent [RZH+22],
materials [KS22d, Nic22, PRO22, YSCM21], mathematical [FS21].

matrices [CT22, HRG20, KCS21, LM22]. Matrix
[MY21, AR21, BL20, BDMP22, HSG+22, LNYD20, XHC22].


maximal [CL20c]. Maximizing [Liu20b]. Maximum
[MLQY22, STG20, BSA22, ILT20, NS22, SWG21, XS22b]. maximum-order
[BSA22]. maximum-principle [LITZ20]. maximum-principle-preserving
[NS22]. maximum-principle-satisfying [XS22b]. Maxwell
[ARGK22, BBH+20, CCY+20, CHS20b, DLP21, HCC20, EC20, FM20,
HLH21, ILX22, KCS21, KBH+22, KS21b, LCJ+20b, NGK+21, Puk20,
Sem21, SMY22, SSX22, WHN+20, XBH+22, XLZ21, ZL22]. Maxwell-Stefan
[FM20]. May [Ano20a, Ano20b, Ano21i, Ano22i, Ano22u]. MBE
[YWCI22]. MC [Poe22]. MC-gPC [Poe22]. MCMC

mean [ALFN22, BPT+20, GD20, LW21, LLYF21, LLO22a, MYZ22,
VS+21, ZEG20]. mean-field [ALFN22, BPT+20, LLO22a], measure
[MQ20, WXXZ22]. measurement [KLP22]. measurements
[ABDD20, DGPP22, RLH22]. measures [BJW20, HW20b, LKEM21].

Measuring [RGSR21]. mechanical [RHR20, T22]. mechanics
[BHVJ22, BDI+21, BCP22, Cal21, GFG22, FCWT22, FM20, JN20, MCT21,
XHZ22, ZOG21a]. mechanism [MFS+22]. media
[AFV20, ABH21, AYH+21, AdDMT21, BHVJ22, BVRS22, BDMP22,
BKMC21, BMQ20, BE20, BR22b, CCER20, CFH20, CY22, CYY22,
CC20,DT22a, DGS20, EAK20, FGK22, FCY+20, FS21, GQ20, GSFH22,
GC20, GLY20, GAC20, Hb20, Hb21, HP21a, HLH21, JF21, JGR22,
KNL21, KAO+20, KHS20, KWDS22, KLPR20, LCCM22, LZ20a, LFT+20,
L20b, LLK20, MX22, M22, MMRP22, Nc22, PV+21, QT20,
RSA+20, Sar21a, TBM22, TZ20, WL20, WZC20, WCM+21, WCZ22,
WG+22, XBH+22, XHS21, YHC+22, YZK20, ZLC+20, ZSKN22].

medium
[BSGM22, CZL20, GS20, LW20a, L22, SWG+20, SDA+21, ZSQ21]. meets
[HJK+21]. melting [BTEK22, PGM22]. member [Ran22]. membrane
[DKM+20, KKKM21, X20, ZAMG20]. membranes [LWL22, Z22].

memory [DS22b, FSB+20, KNS21, RA21, XG22, ZLC+20]. Mesh
[Bat20a, GD20, KBB+20, LPS21, AF21, AFP22, ADM+21, BGR20, BB20b,
BB20c, BR22b, CA+22, CHG+20, CCAR22, CCM21, DT21a, DT+22c,
DMRB20, FZS+21, FML21, FC21, YGWG22, Gao22, HNF+21, HZ22a, HW20b,
HYL20, HSG+22, JZS20, KKM21, KH20, KRL21, Lé22, LLW20a,
tLttZ22, MN22, MKHI20, MSK+22, MZC+22, ND20, PWXY22, RMD20,
RAZA21, SC22c, WZ20, WYM+22, XLZ21, YLNT20, YJK21, ZOG22,
ZJSX22, ZSKN22, dSLdA+22, HZ22a. **Mesh-Conv** [HZ22a]. **mesh-free** [WZ20]. **mesh-incorporated** [MKHI20]. **Mesh-independent** [Bat20a]. **mesh-refined** [XLZ21]. **meshes** [ACÉ+22, AR20, AWB+21, AE20, BGF20, Bar21a, BBP21, BG21, BF22, BS22a, BD20a, BCP22, BL21b, CK20, CP22b, CW22a, CSY20, CRE+21, CCB22, CF20, DB+20, DS22a, DD21, DSZ22, DK21, FADJ20, GBC+20, GYWH20, GHY22a, GK20, HW20b, IMJ20, JBF21, KKS21a, KKS21b, KLS+20, KFSM21, KRL21, KHM+22, LM20a, LNM20, LH20, Mar20, MRY20, MW22, NNL+20, PP22a, PP22b, PBGB21, PD21, PGTS21, RGR21, SAS+21, SC22b, VKR+22, VRAM21, WZL21, XY20b, XM20, YWN20, YWCB22, YCH21, YK20b, ZCQ19, ZCQ20a, ZML20, ZL21a, ZL21b, ZJ22, ZLW+22a, ZS20]. **Meshfree** [GTKA20, Oru21, SPdF20, TKR22, WQZP20]. **meshing** [tH22]. **Meshkov** [RS20a]. **Meshless** [BO22, TWZG22, Zha22, AuIL20, SRV21, SWF21, WL22, ZP20, ZZY+20]. **Mesoscale** [POS+20]. **Meta** [CDX22, FFFY20, PKK22, TLB20, CDX22]. **meta-interfaces** [TLB20]. **Meta-learning** [FFFY20, PKK22]. **Meta-MgNet** [CDX22]. **metal** [CCER20]. **metal-dielectric** [CCER20]. **metallic** [VCNC+21]. **metamaterial** [CHG21]. **metamaterials** [Lin21]. **metastable** [ZLS22]. **Method** [BS22a, CMNS21, KCS21, Sel22, ZS21a, AdS22, Abg20, AHG21, AF20, ASKH21, ALCZ20, AMGL21, ACHG+21, ACÉ+22, ALF+22, AMM+20b, AMM20a, AHWZ20, AWB+20, AWB+21, AS20, BK22, BFP21, BBC21, BL22a, BGT21, BCG21, BFG22, Bat20b, BSR20, BB21, BEB+22, BB20a, BHV22, BAK22, BV20, BV21, BBD+20, BPG21, BZB20, BTGA22, BFP+20, BS+22, BWG+20, BLM22, BL22b, BBKB21, BP22, BAA22, BX20, BR22b, BSP21, CCL20, CQ21, CBQ21, CCL21, Ca21, CCWX22a, Cam21, CWW22, CM+21, CB21, CXX20, CXX2a, CZ22b, CZA21, CCB1, CL10, CLS20b, CW22b, CAT20, CMS21, CBB20, CMPP22, CH22, CCAR22, CKN22b, CF22, CLP21, Coa21, Coa22, CX22a, Co20, CA22a, CCB22, CCdS20, CPB21, CMRR21, CMS+22b]. **method** [DHM21a, DLZZ21, DNM22, DKM+20, DY22a, DU20, DFJ22, DGG22, DSPB22, DeV22, DC21, DT22a, DHM21b, DD21, DSS20, DGQ20, DH20, DL21, DN21, DLL21, DYM20, DC22a, DLY22, DE22, DF20, Dup21, DK21, Edo22, EG20, EBC+22, EHW21, EM20, Eld22, EH22a, EPL21, EPL22, EMS+21, FTP20, FA22, FTY+22, FZL20, FHI22, FZ20b, FLW20a, FMS21, FBG21, FAHA21, FG+21, FHT21, FMI21, FMO22, FMI21, FGL+22, FC20b, FZ21, FCL21, FX22, GGC20, GJ20, GM+22, GKY22a, GLSZ22, Gao22, GTDB22, GGB20, GGB22, GHY22b, GDAP20, GA20, GU20, GK20, GGN+20, GF21, GLWY22, GF+20, GL20, GAC20, GHTC21, H1A21, HPW21a, HT21a, HNS20, HLA20a, HSH20, HLB20, HSX21, HR22, HYQ20, He22, HKS21, HKS20, HTL21, HCL22, HBF22, Heu21, HST22a, HHL20, HHL22b, HQ22, HM21b, HTY+22, HR20]. **method** [HHRA19, HT21b, HQ20, HP22b, HLA20c, HLY20, HWY20, HSS21,
[AAM20, AP20, DGL+22, HSS22, WTX+21, YWN20]. **Methods**

[JLL20, STWK21, AniLR20, ARB+21, Ani21, AFGLM20, AZ22, ADM22, AM22, BL22a, BGNZ22, BRT22, BZSF20, BGGM22, BBQ+21, BCF22, BKY21, BSPP22, BVT20, BSV22, BHK+22, BV22, BL21b, BY20, BE20, CCL20, CL21, CAG20, CLW20, CHSS20, CL20d, CLDC20, CYSS22, CYY21, CSLC21, CP20, CBCF20, CRPB20, CND22, CDN22, CCL20, CdS22, CCH20, CEM20, DHM21a, DMN22, DGGL22, DR20, DV20, DWZ20, DY22c, DSZ22, DJJD20, DS22b, DF22, DW22, EH22b, FCM+20a, FSM+22, FMWK20, FHWK21, FJ21, FGKY22, FDP20, FO22, FY22, FTY+20, GC20a, GHRR22, GCV22, GNW22, GTKA20, GHS22, GC20b, GLY20, GLL20, HKJ21, HLM20, Hig20, Hig22, HA21, HPRW20, HHL22, HCL20, JLY22, JKJ20, JG21, JLQY21, Kar22, KBB21, KRL21, KLG22, KNG22, KSBG20, KWS21, KMF20, LGZ21].

**methods**

[LL21a, LSXC20, LXD+20, LLZ+20a, LZZ21a, LLNL21, LNF20, LZX20, LsCL2+20, MKB20, MYM+21, MYZ22, NG22, NS22, OKTD21, PK20, PPP21, PZ20, PBN+21, PG22, PBC20, PGCC+22, RMD20, RS20b, RV22, RWBS21, RB21, RSA+20, RV20, RBD+21, RPA22, SZN9, SZN20, SL20a, SL22a, San20, SpDF20, SWG+20, SRH21, SDDL21, SS22a, SVBM20, SOG+22, SMR22, SAH+22, SX20, SSX22, TAC22, TWZ22, TTP22, Vre20, Vre21b, WW20, WK+22, W21b, XSC21, XGCW+20, XHY22, XSS22, XCL+21, XS22b, YXY21, YLY22, YK20b, YGL20, YH22b, ZX20, ZZ22, ZCZ22, ZZL20, ZOW20, ZMS20, ZWZL22, Zha22, ZXY22, ZHR20, ZYY20, ZQS+21, ZQS20].

**Metric**

[FC21, KHM+22].

**Metric-based**

[FC21]. **MFSH** [GMMS22]. **MgNet** [CDX22]. **MHD** [BWG+20, GGB22, HPW21b, HLL21, K20b, L22, LL22, L21, L21, MD21, PHH21, RRH+21, STC+21, TCK+22, ZHY22].

**MHD-AEPC** [STC+21]. **MHD-kinetic** [HPW21b]. micro


mixed-curved [YK20b]. mixed-dimension [KSHJ20, KWS22].
mixing [AMK+21]. mixture [SDA+21]. mixtures [BR22a, CCN21, PAA21].

model [HGWZ21, LMVF22, LMVF22b, LCJ+20b, LKL22, MD20a, MR22, MCBA20, MH22b, MRRP22, MAP+20, NAZ22, NMG21, NGK+21, NKA+20, OA21, PHP21, Pan20b, PC21a, PBCL20, PAA21, Pop20, QJQW22, QH2+22, QHLL20, RS20a, RMD20, RSA+22, Rei22, RK21, RB21, SBH21, SEG21a, SVW21, SRTB21, SHL+20, SWHJ22, STC+21, SKCM22, STB+21, SC22b, SM22, SI22, TT22a, TLD20, TL20, TKR22, VSB+21, WMS21, WW20a, WCC+20, WNZ20, WCL+20, WYWC21, WCF+21, WCM+21, WY22a, WY22b, WSAZ22, WLZP21, WLZ21, XZ22, XC20, Xie22, XY20b, YHC+22, Yan21b, Yan21c, YHRN22, YWCL22, YFY22, YM20, ZY20b, ZHL21, ZWZL22, ZMSW22, ZAW+20, ZZ22, ZLB22, ZAMG20, ZKY+20, ZXD22]. model-based [GHNS21]. model-data [DCSG22]. model-form [HWDM22]. model-order [BVR22]. modeled [KH21a, KS21d, vNGB22]. Modeling [CMS+22a, CDL+22, EDLF20, GZ20, He22, KSHJ20, PBVC22, ZDC20, AYH+21, ASS21, BHVJ22, BABD21, Cha20, CL20b, CHIF21, CWHZ21, CCWX22b, CNC21, DSS+22, DJ22, EFS+20, FTP20, FCWS22, FSD22, GLLB20, HHA21, HZB+21, HLB20, HR21, HGH20, Hig20, HZ22a, Ian20, JADS21, KNL22, KWS22, LN22, LBN21, Le21a, LYL20, LR21a, LE21b, LHA+21, LLZL20, Lu20b, LAS22, MMSW22, MX22, MP21, NBR22, POS+20, PPV+21, PJW21, PB20b, PZMK22, QERT20, RSHK21, RBF+21, RIC+22, RE22, SYOS19, SYOS21, SWHJ22, SML20, SLOZ21b, SLOZ21a, TNB21, WCF22, WFM22, WCZ22, WKA+20, XLH21, XLH22, XBD+20, XBR21, XD22, YWN20, YZSD21, YRC+21, YY20, YQO20, Z20, ZTS20, ZLK20, ZL22b, ZPK22]. modeling-based [YZ22]. Modelling [LM20, Abg20, BTEK22, BJ22, Cie20, DCHF21,
models
[AP21, ASBM20, AMK21, AMW22, APR22, BGR20, BSCG22, BGS22b, CDBS21, CDT22b, CL20b, CFBM22, CBA20, CY21, DS21, DEB21, FFGRLS20, FY22, GPL22, GDBF20, GZJ20, GCD20, GWZ22, HdB20, HSK21, HIJ21, HLA22b, HCCR22, HSG22, IT22, KMS20, KC20b, KS22d, KFP22, KLPR20, LCH20, LPS21, LSL20, LLM20, LT20c, MGMV22, MFK21, PBJ22, PS22c, PB22, RLH22, San20, SKP21, SBC20, SL20b, SL22b, SM22, T20b, TBST20, TW20, TAVD21, WRH20, WLS22, WZSK22, XLLH21, XCL22, Yc22, ZAK21, ZHP22, ZWB21, ZSKN22].

moderate
[LSC20c].

modes
[CSM20, TWY22b].

modification
[FAA20].

Modified
[KK22b, KT20, DL21, TPYX22, WNZ20, Xie22, ZOWW20].

modified-energy
[ZOWW20].

modulated
[GDAP20].

mole
[PCF21].

molecular
[AHG21, ALL22, BZ21, Ca22, GLL20, HX21, Li21, LTK22, LLZ20b, MR22, NMGR21, VK22, XCL21, XCL22].

molecular-continuum
[MR22].

molecules
[Cie20].

Moment
[Ca21, FC21, AM20, NWM21, KY21, BT20, DK20, FLZ20, GK20, HP21a, HCCR22, KN20, LSL20, LM21c, MMdMB22, N22a, SKT20, Sar21b, SL20b, SL22b, SBVM20, W22, XDL21, Yc20].

Moment-of-fluid
[ML20, LSL20].

Moments
[YGW20, F3M22, FMJ21, FMOJ22, PPH22, VVL21].

momentum
[DC21, EJ21, KR22, MM21c, MM22, SM22, YY20, YK20a, ZJ22, ZOEL20].

momentum-weighted
[KR22].

Mondrian
[SZG21].

Monge
[TSSO20a].

monitoring
[DZJ22, HMM20].

monodomain
[WCF21].

monolayers
[Cie20].

Monolithic
[PKC22, CPK22, CMS22b, HXZ21, LH22].

Monotonicity
[BB20c, LL21c, WRH20].

Monotonicity-Preserving
[LK20, B20c, Y21].

Monte
[ALF22, BB20c, HLZ20, KOM22, KP20, KSP21, LT22a, LG21, LTK22, LM22b, MR22, OGM22, PJ21, PZ20, PV20, PB22, Pet22, RA21, SG20, SM21, SH22, TT20, TBD20, VM22, WP22, YS22, YZ21, ZS21b].

Monte-Carlo
[ALF22, PV20, RA21, SH22].

MOOD
[BLM22, BL22b].

Mori
[LL21c, WRH20].

Morphological
[WCA20].

morphology
[ZAM20].

mortar
[EFR21, ZL21a].

motion
[Li21, LX21, NT20, OSZ21, ZEG20].

Moving
[GTKA20, GKA22, MKH20, AR20, BBBT21, BF22, BV22, BR20, CZZ21, CP22, C20, DT21a, DT22c, G20, HR20, KA20, KH22, LH22, LW22a, LM22b, LM20, LAN21, MK22, MM22, NGZ22, OB20, PD21, SM21a, SHL20, T22, Vd21, W21, X21, X22, XHL22, XLS22, XL20, Y22, Z20a, ZR20, ZC21, ZK20].

moving-mesh
[BR22b].

MPAS
[CP22a].

MPFA
[SWG20].

MPI
[LZ20].

MPI-based
[LZ20].

MPS
[JKZ21].

Multi
[ABH21, CC20, DZ22, EPL22, HST22b, KKY22, KS21b, LS21, LWZ22, MB21, MN20, MP21, SH22, SX22, VR22, WZ22, YDC22, ZJ22].
Bar21b, BS22b, BDB21, CS20, Cha21, CHSS20, CDX+21, CsS22, DFJ22, DhJV+22, DYM20, DFJ20, DV22, EHW21, FSWA22, FN22, FBCD22, Gar21, HSM20, HZHL22, Hig20, H HLS22, HWDM22, HSG+22, Jai22c, KFO22, KS21a, KKS21a, KK22a, KFP+22, KD21b, LVK+22, LPL+22, LLWX22, LSLH20, LPS22, LTK+22, LLL+22, LPL22, LLN22, MS20a, MK20, MVO+20, MD22, PAA21, RS20b, RZH20, Sar21a, Say22, SL22c, SX20, TWY22a, VSS21, WBN21, WWYC21, WZT21, WDS22, XF21b, XF21a, XDLX21, XYL22, YKdHC20, ZZM20, ZRH21, ZW22, Zha22, ZQS20, ZS20, ZPS+21, SAL+20.

multi-component [KK22a, LVK+22, MS20a, PAA21, Say22, TWY22a].

Multi-condition [KFO22].

multi-core [LPL+22].

Multi-dimensional [DZ22, Bar21b, EHW21, HSG+22, KFO22, LPZ22].

Multi-domain [LFL+22].

Multi-element [EPL22].

Multi-fidelity [MBK21, BS22b, Cha21, KFP+22, MK20].

Multi-frequency [SH22].

multi-GPU [SAL+20].

multi-grid [RS20b].

Multi-index

Multi-resolution

LSQ21, YDC22, DYM20, WZT21, ZRH21, ZQS20, ZS20].

Multi-scale

[ABH21, MP21, Cds22, DhJV+22, EHW21, HWDM22, LPL+22, LTK+22, MD22, XF21b, XF21a, ZPS+21].

multi-species

[DFJ22, FN22, LLWX22, XYL22].

multi-stage [CCW20, SL22c].

multi-state [WDS22].

Multi-symplectic

[SSX22, CS20, CHSS20, HZHL22, Zha22].

multi-symplecticity [SX20].

Multi-variance [LWZ22].

multiblock [AD20, JLC21].

Multi-component

[SvdTB21, BV20, BV21, DYT22, FSB+20, FM20, LZ20a, PLKM22, Ren21, SBC20, YY22].

multicontinua [VLC+20].

Multidimensional

[BGGM22, CZHY20, FPT20, GSB+21b, BV20, GCLM22, HKKS21, KBCH20, Lep21, MD20a, MZ20, MGT+21, SMRW22, WZ21a, ZQL+22].

Multidirectional [DMRG22].

Multifidelity

[PZNK22, WPBS22, DDS+22, GGEJ20].

multifluid [CMS+22b, WHN+20].

multifluid-Maxwell [WHN+20].

Multigrid

[BGGM21, RSO20, Ani21, BTGA22, CDX22, Coc20, DC22b, FMWK20, HRC20, dMKJ+22, KRL21, MLHR22, MLCM21, PP22a, PW+22, RAZA21, SMV22, SAL+20, YM20, MLCM22].

multigrid/ensemble [MLCM21].

multigroup [GA20].

Multilayer

[GBDF+20, GMMS22, LSG22a, Pop20, ZS21b].

multilayers [ZYY21].

Multilevel

[GA20, MRRBS22, BCWD21, Bat20b, BBQ+21, CYY22, KNP20, LS20, LYY20, MBTS20, TT20, WPBS22, dSLdA+22].

multimaterial
Multiphase [WCA +20, AK22, CFSH20, CBBI20, CJ21a, CJ21b, DZJ22, DCHF21, DDVO21, DSPB22, EFS +20, EAA +22, FTP20, HdI20, HPW21a, HYSS22, HLA22b, JHJ20, JFH21, JLT22, KAO +20, KD21a, LW22b, LZPM22, LMZ21b, LNC +21, LCP21b, LW20b, MFRZ22, PAA21, Rei22, SBH21, SLOZ21b, SLOZ21a, TZM +20, VTC20, WL20, WGY +21, XJN +20, XHX22, YHC +22, YRHN22, ZX20, ZJ21, ZSY21].

Multiphysics [CWL +21, HPPZ20, NAZ22].

Multiple-Relaxation-Time [LHWZ21].

Multiple-Scale [Oru21].

Multiple-Resolution [LHWZ21].

Multiresolution [BGGM22, YLS21].

Multiscale [AEGV22, FCL21, HSXZ21, KM22a, KH21b, LLZ +20a, MCT21, NdILPL21, RSA +20, VACE21, XHS21, ADK +21, AKWY20, BGP22, BKM21, CFSH20, CCHS20a, CCE +21, CP20, CELV21, CELV22, DCHF21, EPV21, ELLZ22, EAA +22, FGK22, FZLL20, FCM20b, FZ21, HTKT21, HZB +21, HYJ22, JLY22, KC20b, LLZ22, LJ21, LLY21, LH21, LZ20b, MR22, PPV +21, PZ22, Pop20, QERT20, RS20a, RC20b, SLL+20, THKT21, VLL +20, WCC +20, XZ22, YXL22, YM20, ZDW22, ZG20, dSLdA +22].

Multispecies [SMAY22].

Multisymplectic [CJ21].

Murdoch [XLHB22].

MUSCL [Nis20c, vLN21].

MUSIC [Par22].

MUSIC-Type [Par22].

Mutual [THKT21].

Myocardial [DFP +21a, MNG +22].

Naghdi [GKPT22, Mar20].

Nagumo [WCF +21].

Nano [CCER20, CE21].

Nano-Photonics [CE21].

Nano-Structures [CCER20].

Nano-Scale [ZZY +20].

Nano-Second [MAP +20].

Nanostructures [VCNC +21].

Nanotubes [YB22].

Natural [AD20, Sab20, ZD21].

Natural Stencil [AD20].

Nature [CHZ22].

Navier [CZ20a, GHHR22, JCL21, LFT +20, LMVF22a, LMVF22b, ZH21, ADK +21, AK22, Bal21, BCIT22, BP21, CLW22, CLDC20, CWW22, CQA21, CK21, CPK22, Co20, DY22a, DD22b, DLY22, DGW22, FZQ21, FZQ22a, FHWK21, FNT21, GCVR22, GS22, GCL +22, HBF20, HMR20, HMO +20, HR20, HRW22, JCL21, JKL20, JK20, KS22c, KS22b, KSL +20, KPK22, LN21a, LN22, LG20, LD20a, Li20, LCSZ21, LLO22b, LNYD20, LP20b, MRK +20a, MRK +20b, MLHR22, MOBR22, MDF21, MHY20, NGZD22, NYY22, NMR +22, OY21, OB22, PC22, QHL20, QHL20, RRFK +21, Se22, SP22, UB22, WZTZ21, WH22b, WSH22, YU22, YL20, YA21, ZL21b, ZPGR22, ZLW +22a, aAK20].

Near [LYZ22, CZLC20, GZ20a, GWC +22, Ish22, LWWY +20, PN22, YGJ21a, YGJ21b].

Near-Axis [GWC +22].

Near-Boundary [CZLC20].

Near-Field [LYZ22, PN22].

Near-Ground [LWWY +20].

Near-Minimax [YGJ21a, YGJ21b].

Nearest
nearly-conservative [CCB22, GLK20, LLKY21].

Network [TR21, BZSF20, CCL21, CCL22, CCP21, Cha21, CX21, CCWX22b, Coa21, Coa22, DM21, DD22a, GLWZ22, GDL22, GWY21, HLL22, HJJL20, HBF21, KCWZ22, LMS+22, LLZ22, LLM20, LY22b, LT22b, LC22, MLM+21, MLHR22, MX22, MK20, MRBC22, NÀ21, QGZ22, SY21, VPL20, WRH20, WWFM22, WXZ22, WCZ22, XZW21, XZWH22, YHC+22, YCC+22, YYL20, YL21b, YYD+22, ZC22a]. Networks [HTKT21, PZNK22, RR21a, RHG22, AK21, BS22b, BP22, BT22, BDMT22, BX20, CWL+21, Cai22, CD22, CY21, DDP20, DHR20, DN21, FGF22, FFFY20, GCVI22, GSW21, GN22, GZ20, GSH22, HNS20, HLZ20, HBG+21, HXFD20, JKK20, JMAK22, JCL21, KTBP20, KV20, KWS22, LC22a, LYL20, LY22a, LHA+21, LMK21, LAS22, MRHR20, MK21, MFK21, NCC22, PZ21, PMACG21, PDPK20, PZ22, PMT+22, PBVC22, SRH21, SEG22, SJK21, TBW22, TXH+21, WKA+20, WL22, XF21c, XHD21, YM21, YN2H20, ZBY20, ZZZ22, ZC22a, ZNC+21, ZLS22, AM22, JADS21]. Neumann [SYOS21, TN21, AI20, KBCH20, KD21b, LM21b, MMZ22, SYOS19, TP22, X220]. Neural [AM22, DD22a, HTKT21, JADS21, LMS+22, LLZ22, MB22, NÀ21, PZNK22, RR21a, RHG22, TR21, AK21, BS22b, BZSF20, BP22, BDMT22, CWL+21, CCL21, Cai22, CCL22, Cha21, CCWX22b, DD22b, DM21, DHR20, DN21, FFFY20, GCVI22, GSW21, GLWZ22, GN22, GY21, GC2H22, HNS20, HLZ20, HBG+21, HXFD20, HJJL20, HBF21, JKK20, JMAK22, JCL21, KTBP20, KV20, KWS22, LC22a, LYL20, LY22a, LHA+21, LMK21, LAS22, MRHR20, MK21, MFK21, NCC22, PZ21, PMACG21, PDPK20, PZ22, PMT+22, PBVC22, SRH21, SEG22, SJK21, TBW22, TXH+21, WKA+20, WL22, XF21c, XHD21, YM21, YN2H20, ZBY20, ZZZ22, ZC22a, ZNC+21, ZLS22, AM22, JADS21]. Neumann [SYOS21, TN21, AI20, KBCH20, KD21b, LM21b, MMZ22, SYOS19, TP22, X220].

neutral [AAL+21, GRC+22, KSK21]. neuron [DL22, DC22a, GHY22a, Gar20, Gar21, HKMW22, KEM21, ZG20].

neutronics [CS22]. neutronics-depletion [CS22]. Neveu [Lak20].

Newton [BE20, CYYS22, Lec21, LT21, VdGP20]. Newtonian [CY22b, GF21, HdB21, HK21, KAO+20, SPF21]. NH [LLZ22].

NH-PINN [LLZ22]. nine [LDM+21]. nine-dimensional [LDM+21].

noises [ZMK21], noisy
[BCSK21, JL22, KTDG22, XZW21, YMK21, Yin22, ZL21d]. Non
[AD20, HT20, dMKJ+22, JADS21, Jai22c, OA21, San20, SM22, ARC22,
AKK20, AMGCL21, AZ22, AAW20, ABW+21, BDT21, BR22a, BBPR21,
BG22a, BSA22, BJL21, BG20c, CSCI20, CSM20, CIMG21, DMRG22,
DSZ20, DFP+21b, EPV21, EM20, EDLF20, EPL21, FBG20, FCBM22,
GTDB22, GCC21, HdB21, HJ22, HQ20, Jai22b, JTZ22, KAO+20, KVQE21,
Lee21, LP21, LLI20a, LCW20, LG22, LOL22, LY20a, ILNZ21, LY22c,
MDG20, MZC+22, MG21, NFA21, OBB22, PHHJ22, PFC21, PKC22,
PGCC+22, Pop20, RHR20, RGL22, SBL20, SBVM20, STB+21,
SS22, TJK22, TMG20, TSTH20, WZ21, WY22b, WKW+22, WL22,
XLLH21, XMY22, XDLX21, ZXBS22, ZY20b, ZF20, ZSKN22, dSLdA+22].
non-canonical [AKK20]. non-colloidal [KVQE21]. non-conformal
[AMGCL21, XMY22]. non-conforming [Jai22c, LOL22, WY22b, ZSKN22].
non-conservative [TSTH20, WKW+22]. non-cutoff [IQ20].
non-decomposing [FCBM22], non-dissipative [JADS21, TJK22].
non-equilibrium [CSL20, EM20, JTZ22, PCF21]. non-Gaussian
[STB+21]. non-homogeneous [WZ21]. non-hydrostatic
[Lee21, LP21, Pop20]. non-ideal [OBB22]. Non-intrusive
[JADS21, SM22, DFP+21b, XLLH21]. non-isothermal [WLZ21].
non-linearly [Jai22c, AAW20, BR22a, BBPR21, CIMG21, EPL21, Jai22b,
LL20a, MG21, PHHJ22, RHR20]. Non-linearly [San20, FBG20]. Non-local
[HT20, BDT21, LY20a, ILNZ21]. non-Markovian [GCC21]. Non-modal [dMKJ+22], non-Newtonian
[HdB21, KAO+20]. non-oscillatory [BSA22, LCW20, SBL20, XDLX21].
non-overlapping [BG20c, DMRG22, GTDB22, MDG20, SS22].
non-periodic [EDLF20, TMG20]. non-planar [ZF20]. non-reactive
[ARC22]. non-realizable [SBVM20]. non-rectangular [DSZ20].
non-relativistic [AZ22]. non-smooth [JHZ22]. non-spherical [RGL22].
non-stationary [EPV21, LY22c]. Non-stiff [AD20]. non-subcycling
[ZXBS22]. non-symmetric [FNA21]. non-uniform
[AWB+21, CSM20, MZC+22, dSLdA+22]. non-uniformly [LMG22].
non-uniqueness [BJL21]. non-classical [BSA21, MBBV22, VM22].
nonconforming [XY20b, ZL21a]. non-conservative [GB+21b].
non-equilibrium [FCW21]. Nonintrusive [FCBM22, KCP20]. Nonlinear
[Ani21, CSL21, KWS22, LHL+22, Nor22a, SKP+21, SML20, AST21, AZ22,
AMM+20b, BF22, BBZ20, BCP22, BE20, CSY21, CL20a, CQY21, CBQ21,
Cha20, CM20, Che20, CWHZ21, CHOS21, CWW20, CTC22, DDR22, DV20,
DV21, FLZ20, FCM20b, GLS22, GQ22, HM22, HHS22, HL20a, HW20,
HLH21, HSW22, Iij21, JW20, JW21, Kar22, KC20a, KGN22, KCR22,
KKS21, LC20, LJI21, LLAI21, LQ22, LYS22a, LcXL+20, MD20a, MVK20,
MCV22, MY21, MW22, NW22, PHO22, QC22, R21, SAC22, STEK22,
SDKL21, S21, TB22, TT22, TZ21, TCR+20, VLC+20, W20, Wan22, WAB21, XBH+22, YSCM21, YX22, YW21, YZZ22,

October

Octree [EGTC'+21, CW22b, KLS'+20, LKM22], octrees [SGPW21]. Odd [BTZ22]. ODENet [HYZH22]. On-the-fly [Qia22]. once [ILNZ21]. One [LZ22b, AG21, BBGT21, CSS20, DC21, JHJ20, JPAZ21, KHS20, LCH20, LSC20b, LW20, LZZ22a, MCBA20, PBCL20, Ran22, Rei22, SBH21, SWM21, SSPV20, SDA'+21, YNT20, ZCH22, ZYD20, CLS20b]. one- [YNT20].


One-sided [LZ22b, BBGT21]. one-way [JHJ20]. online [DEB21]. Ono [RWY21]. Onset [SSS22]. open [BDB21, CS21b, LYb20, WYHL21].

OpenFOAM [Sar21a, TGS'+22]. opening [KSST21, WBN21]. operator [AAL'+21, AMW22, BCJM20, BGSP22, CWL'+21, CC22b, HZ22a, Kho20, LJ21, LW21, MRG21, PDPK20, PGS22, XG22, ZYW21, ZYH22, dSLdA'+22].

operators [BFM21, CL20a, CMR21, CS22, FFFY20, FFY21, HM21a, MLM'+21, MZZ20, MRBC22, WZ21a]. optical [CSM20, CS21b]. Optimal [BZ21, CHG21, KBC21, LW21, MW21b, NY21, TBG20, VLV20, AHH'+20, BBO'+22, BS21, CM20, FCP21, FVM22, HT21a, HKKS21, ID20, IT22, KSW22, LG20, LLLO21, Lév22, MD20, RE20, Yan21a]. optimally [JJ21].

Optimization [AIN20, GWC'+22, MZ20, WK20, ACML20a, ACM20b, BGS22a, BS21, BLWL22, CS21, CHG21, KBC21, LW21, MZ20b, NY21, TBG20, VLV20, AHH'+20, BBO'+22, BS21, CM20, FCP21, FVM22, HT21a, HKKS21, ID20, IT22, KSW22, LG20, LLLO21, Lév22, MD20, RE20, Yan21a]. optimally [JJ21].

Optimization-based [ZSP20]. optimizations [EAK20]. Optimized [CAG20, MLCM22, DBD21, FBG20, GHY22a, HSH20, MYM'+21, ZPK22].

optoelectronic [ACML20a, ACML20b]. orbit [KCCR22, RC20a, VCPR20]. orbit-averaging [VCPR20]. orbital [DLZZ21]. orbital-updating [DLZZ21]. orbits [AKK20, SJGC21]. order [ARTB20, ADK'+21, Abg20, AnIL20, ASK21, ADP22, AMW22, AP20, AMM'+20b, AAKW20, BGFB20, BBH'+20, BGH20, BF22, BRT22, BVR22, BSA22, BG20a, BD20a, BDL'+20, BP21, BL22b, BL21b, BBW'+21, CB21, CCWX22a, Cam21, CP21, CPX21, FSS'+22, CMP'+21, CZ221, CF21, CBF22, Cha20, CZ20a, CWHZ21, CK21, CY22b, CSS20, CLJ'+20, CPG21, CBA'+20, CBA'+21, CK22b, CP20, CND22, CDM'+22, CL21, CX22a, CCB22, CCM20, CMR21, CS22, CMC21, CA22a, CCM22, DHH21a, DCA'+22, DVS22, DS22a, DC21, DD22b, DD21, DHR20, DJ22, DY22b, DYG22, DY22c, DYG22, DT20, DT21b, DT22c, DFGR20, DK21, DFP'+21b, DGW22, EAK20, EPL21, FFT20, FZQ21, FZQ22a, FMK20, FHWK21, FZ20a, FZ20b, FGKY22, FML21, FX22, GBC'+20, GLS22, GDLL22, Gao22, GCDT22, GA20, GU20, GQR21, Gla21, GZ20b, GFY20, GPS20]. order [GLY20, GCL'+22, Hac21, HMM22, HRRHG21, HSMR20, HGB20, HHRA19, HL20a, HCL20, HPPZ20, HLY20, HSW22, HRWP22, HXX22, HLA22b, 

[60]
HZ22b, dMKJ+22, IMJ20, JADS21, JYY22, JZZX20, JRD22, KSTD22, KCS21, KS22c, KS22b, Kar22, KBB21, KCWZ22, KLN20, KL22, KLF22, KdMJ+22, KJD+22, KKS21, KD20, KdL20, LCL22a, LJW+22, LBN21, LVK+22, LSL22a, LCS22, LD20a, LCI20a, Li20, LCSZ21, LLQC21, LG21, LYZ21, LZZ22a, LCR22, LSF22, LH20, ILZ20, LRA22, LRW21b, LM20a, LSY20, LD20b, LFZ21, LYS+22b, LWYY22, LaCX+20, LT20c, LY2c, LZZ22a, MZ22, MCFV22, MH21, MH22, MQ20, MGA20, Mon21, NS22, NFL+21a, NFL+21b, NT21, NBR22, Nic22, NGK+21, NK22, Nis20c, Nis22b, Ou21, OA21, OGG20, PZX20, Pan20a, PFC21, PP22b, Pan20b, PBN21, PB20b, PM21b, PS22b, PH22, PTT22].


LH21, MVK20, MMPD21, OWHN22, PA20, SSMA21, ZCZ22, ZC22a, ZX22).

**paradigm** [DiJV+22]. **Parallel** [AFL22, CY22, CSdP+22, DS22a, HSM20, LYT20, LYY20, LR22, OSZ21, SJK21, TTSP21, WZ21b, WK21b, YYM+22, AAI+20, ARGK22, ARB+21, BZC+22, CEMO21, CPX22, DLZZ21, DGL+22, EGTC+21, FVM22, FADJ20, GNF22, GW20, JGM+22, KLS+20, LZC+20, IINZ21, LMIHUR22, MYL21, MHY20, MRdB21, RMA20, RAZ21, SAL+20, SES21, SMW+22, SS22, SBVW20, TSNHD20, TSP22, VRAM21, WGY20, WY22b, XMY22, XCS22, ZLC+20, ZO21]. **parallel-friendly** [BZC+22].

**Parallel-in-time** [CSdP+22, HSM20, LR22, FVM22, GW20, LIIH21]. **parallelism** [RA21]. **Parallelized** [MVK20, HZTN21, MD20a].

**Parameter** [BHK+22, BGH21, HSH20, JO22, JJ21, LT20a, POS+20, Ran22, RSA+22, WPBS22, ZHL21]. **parameter-free** [JJ21]. **Parameter-robust** [BHK+22].

**Parameterized** [CDX22, FTZ22, GW20, GLS22, IT22]. **parameters** [AP21, ABDD20, BCPV21, CCWX22a, DWWZ21, LSL20, LZ20b, MNG+22, VLC+20, XLLH21]. **Parametric** [TGS+22, YZSD21, AK21, BGNZ22, BVR22, CJW22, LB21, MLCM22, OA21, WRH20, ZMK21].

**Parametrically** [ZOG21a, BLWL22]. **parametrizations** [TSSOA20].

**parareal** [GHNS21, LH21, NT20]. **parareal-like** [NT20]. **parcel** [MZC+22]. **part** [ZPG22, BWG+20, CEL+20, CBRY21a, CBRY21b, DBT+20, KNP20, LQX22b, LQX22a, RRHH+21, SLOZ21b, SLOZ21a]. **Partial** [Lev+22, BM21, CM20, CHE20, CCWX22a, CDX22, DM21, GLS22, GW20, GY21, HNS20, HHL22, JLY22, KTM20, LZCC22, MB21, OWHN22, PB20b, SX20, TL20, TBST20, WX20, XZW21, YGL20, ZBYZ20, ZZZ22, ZCZ22]. **Partially** [DGW22, CELV21, CELV22, PAA21, RR21a, WPBS22]. **Partially-averaged** [DGW22]. **Particle** [BZC+22, HP21a, KEY20, LPZM22, LFL+22, MVO+22, RA21, STC+21, TCA21, ALF+22, BL19, BLL20, BOB21b, BOB21a, BWB+21, BPT+20, CCV+20, CCN21, CW22b, CI21a, CK22a, CCAR22, CBCF20, DFJ22, DSS20, Er+22, ESF21, FCM+20a, FJG+20, FZLL20, FJ21, FHJ22, FGG20, HHL20, HLR22, HPR20, HW20a, JKZ21, JRY+20, JLL20, KS21c, KCCR22, KSK21, KVQ21, Kus20, LLC+20a, LDM21, LAT+22, LZX20, LMZ21b, LMZ+21a, LKG+20, LMLH21, LKJL22, MKH20, MSK+22, MZC+22, MRBS22, MRdB21, OB20, OYK+22, PE20, PA21, PWW20, PM22a, Puk20, RSW21, RR22, RC20a, RE20, SPDF20, SGPW21, SSS20, SCL20, SDA+21, SC22d, TACO22, TZZ+20, TRC22, WXZ22, XLT+20, XCL+21, YKL21, YRHN22, ZRH20, EC20, GHS22]. **particle-based** [ESF21]. **Particle-in-Cell** [STC+21, ALF+22, BBW+21, CCY+20, CCN21, CK22a, CBCF20, Er+22, FCM+20a, HHL20, HLR22, HPR20, KS21c, LAT+22, LKG+20, SCL20, SC22d, TCA21, TZM+20, TRC22, EC20, GHS22]. **particle-laden** [CW22b, FJG+20, PA21, RR22, RE20, SGPW21]. **particle-resolved** [CW22b]. **particles** [CMS+22a, DHM21b, HPW21b, Ish22, KG20, KDB+20, KCK21, LT22a, LDZ+22, RPA22, RGL22, SGM21, SWJ22,
SDA+21, WLH21, WDK22. particles-in-cell [HPW21b]. particulate
[OYK+22, YCM+20]. partitioned [ASS21, HPPZ20, LOL22, NAZ22]. Parts
[LF20, AAL+21, CT22, DFW22, GN20, LLN22, MRK+20b, MRK+20c, 
MZ20, PBN+21, WZ21a]. Pascal [Oru21]. Pass [DJID20]. Pass-efficient
[DJID20]. passive
[MNG+22, STWK21]. patch [FBCD22]. patched [YG21]. patches [BG20c]. path
[CNMB20, CKN22b, LLZ20b, PGCC+22, XDCF21, YR22, ZMX21].
path-conservative [CKN22b, PGCC+22]. pattern [TZM+20, ZBB21].
PDE [FVM22, GZ20, GKA22, MK20, PMACG21, SMF20, Ste22, WL22,
XZ20, YMK21]. PDE-constrained [FVM22]. PDEs [CCLL20, CS20,
CCL22, CEMO21, CJ21, CHOS21, CA22a, DDP20, DV20, DV21, DY22b,
DE22, GSW21, LSS20, LZY22a, LY22a, LN21b, MVK20, MRZ21, QCZ22,
RR21a, RV20, TTY22, TB21, XZC20, ZL21d, ZC22a, ZLS22, ZMG+22].
PDF [PJW21]. PEC [ZL22]. penalised [HVB21]. penalization
[KdMJ+22, KjdM+22, SYOS19, SYOS21, TNB21, TPB22]. penalties
[AD20]. Penalty [FCL21, ScdHJ20, SY21]. penalty-free [SY21]. Peng
[FCWS22, LYY20]. percolation [CY21]. Peregrine [KMS20]. perfect
[XYL22]. Perfectly [DZ22, MBAG21, KLP22, LSS22b, USRH20].
Performance [PV22, ADP22, KSW22, KD20, RBD+21, YJSX22].
perfusion [DFP+21a, KSJJ20]. peridynamic [ZHPZ21, ZLB22].
Peridynamics [BM21, KAO+20, PJA22]. perimeter [JL21b].
perimeter-decreasing [JL21b]. Periodic [AFP22, BZ21, ZPGR22, BFL20,
DN21, EDLF20, GDAP20, GLT+20, HL20b, LPS21, LHC22, LZLZ21,
MBE21, MD20c, RHG22, SWM21, SJC21, TMG20, WNB21]. periodically
[LNYD20]. permanents [LM22]. Permeability
[WCA+20, AT20, KNLB21, XY20b, YZK20]. permeable
[QHZ+22, WKK21]. perspective [WYP22]. perturbation [GCVI22].
perturbations [AHG21]. perturbed [CZ22a, CHT20, GHSN21, ZG21].
petroleum [dSLdA+22]. Petrov [LTD+22, WTX+21]. PFNN [SY21].
Phase
[CY21, HHA21, LHA20c, HLA22b, VPL20, Ahg20, AdDMT21, ASK21,
BL22a, BDMP22, BSV22, BDB21, BMM20, BDMT22, BE20, BR22b, Cal21,
CSCL20, CZH20, CY22b, CDX+21, CK21, CLP22, CMRR21, DC21, DLY22,
EAA+22, FMS21, Fu20, FY22, FS21, GJLD20, GDBN+20, GQS20, GNF22,
GPSHM20, GCL+22, HZHL22, HKS20, HCL22, HJJ+21, HHR21, HT21b,
HLA20b, HLA21, HLA22a, IKP22, JMM20, Jai22a, JM22, JTK22, JGR22,
KS21a, KLS+20, KS22, KHS20, KWDS22, LHC22, LL21b, LOL20, LLW20a,
LDM+21, LYS22a, LLPL22, LNC+21, LRT+22b, LLCK20, MMZR21, MJJ21,
MA21, MCB20, MMM20, MM21c, MM22, MD22, PM21a, Pan20b, PPHO22,
QERT20, QHZ+22, QW22, RZ220, RSA+20, SCB20, SRT21, SRD20,
SHL+20, SWHJ22, SFP+20, SDA+21, TWY22a, UBT22, VS21, WLW+20,
WZCK21, WZ22, WCZ22, XS20, XZRW21, XHZ22, XDCF21, Yan21b].
phase [Yan21c, YA21, YTK22, YH22a, YK22, YR22, YZK20, YXL22,
YQO20, ZEG20, ZXBS22, ZY20b, ZMWS22, ZW22, ZSsc+22, ZR20,
DWWZ21, KKS21b, LCS22, LZLS21, MGP+22, QLY21, WABK21, XS22a, XS22b, ZCQ19, ZCQ20a, ZYD20. possibly [RGH+22]. post [EHL+20].


Preconditioner [BS20, BEP+20, HV20, LY20b, NFA21, SBVW20, TZNHD20, YFLL21, YM20]. preconditioners [BL20, BGGM21, CCW20, DMRG22, LM21b, LYY20, PS22c].

Preconditioning [KS21a, ASKH21, BKMC21, CC22a, DV22, FJH20, FGF22, FCWT22, GMD22, JBF21, KBH+22, LL22, ILNZ21, TTP22, vWHG+22, YFY22].


preserving [YWLL21, ZNCS+21, ZCQ19, ZCQ20a, ZYD20, NZK+22, ZOE120].

pressure [AFV20, AF20, ASS21, Bat20b, BP21, SCpLL+22, DSPB22, DEv20, DTw20, FGY22, GMRS20, HPW21a, HTL21, Hig22, HP21a, KS22c, KS22h, LMP+20, LRT+22b, MD20b, MS20b, NFL+21a, NFL+21b, SBH21, SW22, SKT21, VMO21, XLS22, YA21, YZK20]. pressure-based [BP21, DSPB22, DEvW20, HPW21a, HTL21, VMO21]. pressure-correction [AF20, LRT+22b]. pressure-free [SBH21]. pressures [GQS20, KS22b]. prestrained [BGNY22]. prestressed [YKdHC20]. Preventing
[SKTK21, GF21]. **primal** [CWW22, NG20, Nor22a, WW20b]. **primal-dual** [CWW22, WW20b]. **primary** [FGL+22, MMdMB22]. **primitive** [CWW22, WW20b]. **principle** [NNJ21]. **principles** [Coa21, GB22a]. **printing** [OYK+22]. **prior** [LSL20]. **priori** [DCA+22, GZ21, AHR20]. **priors** [MYM+22]. **probabilistic** [FTY+22, KK20a, LG20, RK21]. **probability** [BJW20, CW21, CL20c, YZdCNS21]. **probable** [YR22]. **probe** [CSA21]. **probing** [GWY21]. **Problem** [ZS21a, AN21b, BCIR22, CEL+20, CZ20a, DLL22, DT22b, ELSV22, FCWT22, FZ21, HLB20, HSXZ21, HHVM20, HJH+21, HNF+21, HSS21, Hua21, ILX22, JLCT22, KS22a, KBCH20, KKP20, LSW20, LDLW21, Lin21, MNG+22, OKTD21, Par22, SS22a, SBVM20, SCL20, WJKW20, ZMXK21, ZML20]. **problems** [AHG21, ASW21, AuIL20, ARB+21, AL21, AS20, BFG22, BS22b, BBPR21, BB21, BEB+22, BFI22, BB20c, BY20, CQY21, Cai21, CW22, C22a, CWHZ21, CBA+21, CELV21, CELV22, Coa22, CMNS21, CEM20, DMRG22, EP21, ELLZ22, FTY+22, FVM22, F20b, FCL21, GYWH20, GLW22, Gar21, GN20, GA20, GW20, GL20, GZ21, Hac21, HLA20a, HLL20, HKKS21, HNN+21, HP21a, HQ22, HLL2, HPP20, HLY20, HWY20, HSS22, HWDM22, HBF21, ID20, JMAK22, JWZ20, KC20a, KSW22, KBH+22, KNS21, KSHJ20, KLG21, KNG22, KWM22, LCL+22b, LPL+22, LTD+22, LLZ22, LWY+20, LL20a, L21, LT22b, LY22a, LHM20, LRAQ22, LWZ22, LY20b, LS21, LMK21, LT21, MWY+20, MZ22, MRHR20, MDG20, MK20, MRG21, MW22, MBBV22, MRT+22, MMPD21, MTWB21, NN21, Nor22a, OSL22, Ou21, FZ21, PMAGC21, PWXY22]. **procedure** [ASKH21, LSTZ21]. **procedures** [LMN20]. **Process** [STG20, XCL22, ABOS22, BGH21, CL20b, CDEL+22, CSLC21, GTDB22, LT20a, MRT+22, OYK+22, SDP20, ZLC+20]. **process-state** [GTDB22]. **processes** [ABH21, BTEK22, CHOS21, Li21, MZ22, RHR20, WPBS22, ZMWS22, ZLS22]. **Project** [AG21, BEP+20, EHL+20, MTB22, SL21]. **Projector** [CN21, HKKS21]. **profust** [FLW20a]. **programming** [Kiv21, YOH+20, RSHK21]. **Projection** [MTK22, RIC+22, ASS21, Ani21, BF22, BBD+20, BZB20, CHZ+21, CI21b, GFY20, th22, KS22c, KAC22, LL21b, LLF+22, LXD+20, LHXZ22, NLF+21a, OL20, OLS21, OS22, PKC22, XGCW+20, Y22, ZWB21]. **projection-based** [BF22, GFY20, KS22c, PKC22, ZWB21]. **Projection-tree** [RIC+22]. **projections** [HDWM22, LL21c]. **Projective** [BR22a]. **projector** [Dup21, EOP20]. **projector-augmented** [Dup21].
projector-splitting [EOP20]. Prony [DS22b]. propagation
[AD21, AP20, CC22a, DGS20, FGD+21, GC20b, GAC20, KYO22, KS21c, MD20b, MMRP22, Poô22, STEK17, STEK22, SM21b, TLB20, ZZZ20, ZDC20, ZPK22]. propagators [JL21a]. Proper
[SL20a, ADK+21, BCG+20, KCCJ21, MSHW22, TGS+22, DJ22, JADS21]. Properties [LNF20, LPS21, LJ20, LN21a, LBM20, MHHY21, MIM20, NDH20, SMSAGG22]. property
[FX22, MRK+20b, MRK+20c, PBN+21, QCD21, TKK22]. proposition [MVO+22]. protection [DR20, PGM22]. protein
[AAH+20, CDN+20b, KCCJ21, MSWH22, TGS+22, DJ22, JADS21]. pseudo
[AFV20, FFFY20, GFG22, KS22b, PAA21, RHR20, VLV20, WWG20, YYM+22]. pseudo-differential
[AFGLM20, AZ22, AST21, tLjTbZ22]. PSIs [MVO+22]. Puiseux
[NPD20]. Pulliam [PJBB20]. pulse
[CMS+22a, MAP+20, NTSM20]. purely [GLT+20, PM22a, SLWRG21]. purification [AR21]. purpose
[AT20, Sha21]. push
[BJW20]. push-forward
[BJW20]. pyroclastic
[MFRZ22]. QCD [RSO20]. QMA [Hua21]. QP [FSM+22]. QSV [SS22b, SS22d]. QTT
[MTO21]. QTT-isogeometric [MTO21]. quad [SGPW21, WWN+22]. quad/octrees [SGPW21]. Quadratic
[BF22, CHSS20, ID20, Sac22, YOH+20]. Quadratization [Yan21b]. Quadrature
[DHMT21, WK20, AKK20, BT20, DYY22c, FCY+20, GB22a, KKN20, LYS+22b, PPHO22, Say22, SBVM20, SLQW22, VVL21, vdBSB20]. quadrature-based [SBVM20]. quadrature-finite [LYS+22b]. quadrilateral
[GYWH20, KRL21, PP22b]. quads [MN22]. quadtree
[BF22]. quadtrees [CPK22, PPV+21]. quality [HW20b]. quantification
[BBO+22, BCPF21, CDT22b, CMC20, EPL22, FJG+20, GN22, GGEJ20, KLG+22, KKF20, NYZ21, SSG21, TBST20, XF21b, XF21a, ZBB21]. Quantifying
[KNP20]. Quantitative [MM21a, LTK+22]. quantities
[LC22, YL21b]. Quantum
[Le21a, TS20, AAL+21, AFL22, CZ20b, JLY22, WLZP21]. Quasi
[CSX21]. quasistatic [AR22, KC20a]. quiescent [NTSM20].

R [Pan20b]. Race [BABD21]. radar [MTB22]. radial
[DW20b, FZS+21, JYY22, KEY20, LYS+22b, TVL+22, WQZP20]. radially
[Bre20, SOBP22]. radiation [BOB21b, BOB21a, BVR22, BD20b, CSS20,
CIMG21, CCH20, DDR22, DW20a, HNF+21, JTZ22, LSW20, MH22a,
PM22a, PMF20, TR21, TLWM20, Yan21a, YAX20]. radiation-moment
[LM21c]. radiative
[ASBM20, Ani21, BOB21a, BTGA22, FLZ20, GA20, HCCR22, JBF21,
LHWZ21, LM21c, SSS20, SH22, TZZ1, XSSS22, XJS21, ZCQ19, ZCQ20a].
Radiosity [Ara20]. RAM
[KNS21]. RAMSES
[SC22c]. Random
[ALFN22, DFJ22, ZS21a, CLY21, CC20, CY21, DL21, FZ21, FCY+20,
JLRZ20, LSS20, LZ20b, LPZ22, LM22, NDH20, TL20, ZZH22, JLL20].
Random-batch [DFJ22]. random-choice [ZZH22]. Randomized
[SPdS+21]. randomly [FTY+22, KT20]. Range
[Kho20, HMMO20, MCBA20, MM21b, ZDC20]. Range-separated [Kho20].
Rank [TL20, ARGK22, CH22, DCSG22, EOP20, EHW21, EJ21, EMS+21,
GQ22, KWMF22, Os20, PMF20, PM21b, ZOG21b]. Rankine
[GKL21]. RANS
[AF21, AFP22, BPJ22, DR20, ZDS+21, ZAW+20]. RANS-based
[BPJ22]. RANS/LES
[DR20]. Raphson
[VdGP20]. rapidly [TPPA22].
Rare [DSS+22, ZSM22]. rarefied [LSC+20c, LZX20, SKT20, SKCM22,
SZW+20, XLXC20, YGW+20, YZSD21, ZZX20, ZPS+21].
Rascle
[BX20]. rate
[CSASS21, LYZW21, MLM+21, YKdHC20]. ratio
[CPGD20, DC21, HRWP22, RZH20, WGY+21, ZOEL20]. rational
[CEMO21, HLM+20]. ratios
[HPW21a, HZHL22]. Ray
[ZZX20, CIMG21, DSSTP20, YCC+22]. ray-based
[YCC+22]. ray-effects
[DSSTP20]. Rayleigh
[BFL20, RS20a, SSS22]. rays
[YCC+22]. RBF
[GFF20, MFG22, TB21, ZP20, Zha22]. RBF-FD
[MFG22, TB21, ZP20, GFF20]. RBM
[JLL20]. Rd
[CE21]. re
[LBHF20, GCH22]. re-initilisation
[LBHF20]. reacting
[BB20a, CAF+22, DY22d, FCW21, JK20, OCGT22]. reaction
[AdS22, AAWK20, ARR21, BFP21, CCL21, CZ22a, Con22, FGK22, KV20,
LLO22a, LW21, SSF20, SMR22, TZZ20, Yua21, ZJZK20, ZZ20].
reaction-advection-diffusion
[CZ22a]. reaction-diffusion
[AAWK20, LWW21, Yua21, ZJZK20]. reactions
[HZY22, XYL22]. Reactive
[DF20, ARC22, AMK+21, CYY222, CCW20, DT22a, FS21, HKS20,
MRiB21, PFC21, PJ21, VACE21]. reactor
[DJ22]. Real
[PB20b, RLH22, DS22a, DEvW20, GTDB22, HPA22, HP21a, IVK+22, MHYW21, UBT22].
real-fluid
[MHWY21]. real-gas
[DEvW20]. real-space
[HPA22]. Real-time
[PB20b, RLH22, GTDB22]. Realizability
[SL22b, SL20b, SBVM20]. Realizability-preserving
[SL22b]. realizing
[Sha21]. receptivity
[HBFB20]. Reconstructed
[LLNL21, LLL22, ZCL20]. reconstructing
[Cam21]. Reconstruction
[CD22, CBR21a, PLV20, ASK21, BKC22,
BBA22, CSCL20, CZLC20, CN22, CZLC22, CNC21, CN21, CND22, CDN+22,
CCH20, DBT$^+20$, DW21, DGPP22, DGW22, HSH20, JZSX20, KYO22, KJdM$^+22$, LsCxl$^+20$, LLD$^+22$, ML20, MM20, MT21, PZX20, PV22, PKL$^+21$, PGCC$^+22$, RS20c, RHG22, RV22, SEG22, SS22c, WDL$^+21a$, WGY20, Xia21, YK20b, ZX22, ZQS$^+21$, ZC22b, ZC22c, dMKJ$^+22$.

reconstruction-based [RS20c]. recording [AL20]. recovered [LLSD20].

Recovering [EG20, GLL20, CHZ22, YYL20]. Recovery [JKJ20, BZ20, CzHY20, LGZ21, Nis20c, TL20]. Recovery-assisted [JKJ20].

rectangular [BG20c, CJLL21, DSZ20, ML20]. rectangular-polar [BG20c].

Recurrent [WRH20]. recursive [SI22]. recycling [CC22a]. red [RE22].

redatuming [AN21b, AL21, ZC22b, ZC22c]. redefined [TKK22].

redistanciation [MSIM21]. redefined [HdB21, LKEM21, MSWH22, XLZ21].

redefinition [AM22, ADM22, AWB$^+20$, BB20c, CAF$^+22$, DMRB20, FWG22, KRL21, LLW20a, LjTbZ22, MZC$^+22$, NGZD22, RAZA21, SC22c].

reflectivities [ZC22b, ZC22c]. reflector [BCIR22, RfTB20].

reformulation [DD22b]. regeneration [LZPM22]. regime [GMD22, LSC$^+20$, SZ21, ZGK$^+22$].

reduced-dissipation [FFRT$^+21$]. Reduced-order [DJ22, WCL$^+20$, ADK$^+21$, CWH21, CBA$^+20$, DAD21, JADS21, KCC21, LT20c, LY22c, NKT21, NGK$^+21$, PB20b, PB22, RLH22, RBF$^+21$, San20, TCK$^+22$, WW20a, WHR20, WCF22, XLLH21, XLS22, YSCM21, YS21, YM20, ZWB21].

reduced-order [DJ22, WCL$^+20$, ADK$^+21$, CWH21, CBA$^+20$, DAD21, JADS21, KCC21, LT20c, LY22c, NKT21, PB20b, RLH22, RBF$^+21$, San20, TCK$^+22$, WW20a, WHR20, ZWB21].

Reducing [CSASS21, GEvWD22]. reduction [ASBM20, An21a, AL21, ZC22b, ZC22c].

reduction [ASBM20, An21a, AWB$^+20$, BF22, BVR22, BW20, CWH21, Da22, DFGR20, EAK20, FTZ22, GFY20, HWMD22, KC20a, KV20, KSK21, LT22a, LC20, LL21c, OA21, PC21a, Qia22, TL20, VACE21, WCL$^+20$, WD$^+21$, YH22b, ZGLL20].

reduction-based [CWH21, ZGLL20]. reentrant [PH21].

refined [HdB21, LKEM21, MSWH22, XLZ21].

Refinement [AM22, ADM22, AWB$^+20$, BB20c, CAF$^+22$, DMRB20, FWG22, KRL21, LLW20a, LjTbZ22, MZC$^+22$, NGZD22, RAZA21, SC22c].

reformulation [DD22b]. regeneration [LZPM22]. regime [GMD22, LSC$^+20$, SZ21, ZGK$^+22$].

reduced-dissipation [FFRT$^+21$]. Reduced-order [DJ22, WCL$^+20$, ADK$^+21$, CWH21, CBA$^+20$, DAD21, JADS21, KCC21, LT20c, LY22c, NKT21, PB20b, RLH22, RBF$^+21$, San20, TCK$^+22$, WW20a, WHR20, ZWB21].

Reducing [CSASS21, GEvWD22]. reduction [ASBM20, An21a, AWB$^+20$, BF22, BVR22, BW20, CWH21, Da22, DFGR20, EAK20, FTZ22, GFY20, HWMD22, KC20a, KV20, KSK21, LT22a, LC20, LL21c, OA21, PC21a, Qia22, TL20, VACE21, WCL$^+20$, WD$^+21$, YH22b, ZGLL20].

reduction-based [CWH21, ZGLL20]. reentrant [PH21].

refined [HdB21, LKEM21, MSWH22, XLZ21].

Refinement [AM22, ADM22, AWB$^+20$, BB20c, CAF$^+22$, DMRB20, FWG22, KRL21, LLW20a, LjTbZ22, MZC$^+22$, NGZD22, RAZA21, SC22c].

reflectivities [ZC22b, ZC22c]. reflector [BCIR22, RfTB20].

reformulation [DD22b]. regeneration [LZPM22]. regime [GMD22, LSC$^+20$, SZ21, ZGK$^+22$].

reduced-dissipation [FFRT$^+21$]. Reduced-order [DJ22, WCL$^+20$, ADK$^+21$, CWH21, CBA$^+20$, DAD21, JADS21, KCC21, LT20c, LY22c, NKT21, PB20b, RLH22, RBF$^+21$, San20, TCK$^+22$, WW20a, WHR20, ZWB21].

Reducing [CSASS21, GEvWD22]. reduction [ASBM20, An21a, AWB$^+20$, BF22, BVR22, BW20, CWH21, Da22, DFGR20, EAK20, FTZ22, GFY20, HWMD22, KC20a, KV20, KSK21, LT22a, LC20, LL21c, OA21, PC21a, Qia22, TL20, VACE21, WCL$^+20$, WD$^+21$, YH22b, ZGLL20].

reduction-based [CWH21, ZGLL20]. reentrant [PH21].

refined [HdB21, LKEM21, MSWH22, XLZ21].

Refinement [AM22, ADM22, AWB$^+20$, BB20c, CAF$^+22$, DMRB20, FWG22, KRL21, LLW20a, LjTbZ22, MZC$^+22$, NGZD22, RAZA21, SC22c].

reflectivities [ZC22b, ZC22c]. reflector [BCIR22, RfTB20].
LDM+21, LKG+20, NNL+20, WNZ20, WLH21, relativistically [XLT+20]. relaxation [ADP22, CW22b, DFJ20, FBG20, GKPT22, HKMR20, HRG20, JZZ22, LHWZ21, LZY+22b, MTB22, TPK20, ZMWS22, ZS22b, ZZH22].

Robustness [FA22, RBD+21, SLQW22]. rock [HP21b], rocks [KH21b]. rocks [HP21b]. rocks [KH21b].


Rough [KT20, LH21, LYZ22]. roughness [GD21]. RSIR [CSCL20].


second-harmonic [VCNC +21]. second-kind [HJ22, KS11, PSL20].

Second-order [CKT21, GPS20, LD20b, PCF21, PGCC +22, XGCW +20, ZZZ20, ZH21, Abg20, AAKW20, CCWX22a, CZ20a, CY22b, CLJ +21, CX22a, FGKY22, HLA22b, KBB21, ILTZ20, MQ20, Nis20c, Nis22b, RSWD21, SY21, SKCM22, Yan21c, YH22a, ZHY22, ZL22].

Secondary [CHS20]. Seebeck [Kan20]. sEFVM [BHVJ22]. Segel [QLY21, WZSC22]. segmentation [KTDG20]. segregated [ZZZ20, ZH21, Abg20, AAKW20, CCWX22a, CZ20a, CY22b, CLJ20, CX22a, FGKY22, HLA22b, KBB21, ILTZ20, MQ20, Nis20c, Nis22b, RSWD21, SY21, SKCM22, Yan21c, YH22a, ZHY22].

Secondary [CHS20]. Seebeck [Kan20]. sEFVM [BHVJ22]. Segel [QLY21, WZSC22]. segmentation [KTDG20]. segregated [ZZZ20, ZH21, Abg20, AAKW20, CCWX22a, CZ20a, CY22b, CLJ20, CX22a, FGKY22, HLA22b, KBB21, ILTZ20, MQ20, Nis20c, Nis22b, RSWD21, SY21, SKCM22, Yan21c, YH22a, ZHY22].

Secondary [CHS20]. Seebeck [Kan20]. sEFVM [BHVJ22]. Segel [QLY21, WZSC22]. segmentation [KTDG20]. segregated [ZZZ20, ZH21, Abg20, AAKW20, CCWX22a, CZ20a, CY22b, CLJ20, CX22a, FGKY22, HLA22b, KBB21, ILTZ20, MQ20, Nis20c, Nis22b, RSWD21, SY21, SKCM22, Yan21c, YH22a, ZHY22].
DKM+20, DW21, DFJ20, HRR21, HCL22, HT21b, JGM+22, JFH21, KKY+21, KCX+21, KB22b, LCG22a, LCG22b, LHFH20, MMdMB22, PBGB21, SDF20, The21, VTC20, XSHH20, XSA+21, XZBS22, ZY20a].


SGMCMC [LWZ22]. Shabat [MCVF22]. shadowing [CW21]. Shafranov [ELS22]. Shallow
[DS22a, DVB20, AG21, AMB22a, AR20, Ba20, BGBM21, BP22, BCC+20, CP22a, CNMB20, CN22, CTC22, DEN22, DBFN+20, DT21b, DFP+21b, GDBFN+20, GC22b, MM20, NLZ+22, PB20a, PS22b, PL20, RRHH+21, SP22, SS22b, SS22c, SS22d, VEC21, ZSP20, ZJSX22]. Shallow-water
[DS22a, AG21, Ba20, BP22, BCC+20, GD22, MM20, SM20]. Sham
[GMB+22, TMG20, VGK21, ZNCZ+21]. Shape
[DW21, Bar21a, GevWD22, GKA22, GLL20, TB20, VRK+21b, WDK22]. shaped [PA21, PR20, QAS20, SWHJ22]. shapes [MSM21, PTT22, TWTY22a]. shared [RA21]. sharp
[AuIL20, ALL22, BL22a, BBS22, BSW+22, BS22, DU20, KHS22, KBS+21, LC21b, MR22, PR20, PG20, RSW21, S22, ZGN22, ZG22].

[CMN21, XSA+21]. Shock


similar [CS21a, QS2B2]. similarity [NSTM20]. Simple
[LG21, LAS22, S22, BS22, DSZ22, MF21, JJ21, LDLW21, LFY21, MMZ22]. simplex
[Bar21a]. simplices [LD22, MZ20]. simplified [BV20]. simulate
[HM21b, LYS+22b, PGM22, S+21, ZLW+21]. Simulating
[BL22a, KL+20, CBB20, D20, EM20, EPL21, JGM+22, JCT22, KD21a, L22, LDM+21, LXZ+2a, LFL+22, MMD22, OB20, OL20, PB21, SS2a, XSHH20, YHC+22, YKHC20]. Simulation
[AR22, RSW21, VS+22, WCA+20, AT20, ACHG+21, ACM20a, ACM20b, AMB22b, BBC21, BBS22, BS22, Bre20, CP22, CS22a, CZL20, CW22b, CDL+22, CKN22a, CC22a, CC22a, DZ22, D22].
DU20, DVS22, DDVO21, DSS+22, DSS20, DGS20, DEB21, EGTC+21, FMS21, FBG20, GRC+22, GPSM20, GDF21, HYSS22, HZ22b, IKP22, Jai22a, JW21, KOM+22, KFSM21, KKS+21, KVQ21, KH21b, KS21d, LCP21a, LFP+22, LTD+21, LHC22, LLD20, LYY20, LYS22a, LHZZ22, LW22a, LSF22, LY20a, LSZ20, LSC+20c, LMZ21b, LR22, LHL+22, LCJ+20b, LWZ+21, MKH+22, MA21, MFTZ20, MBS21, MH21b, MIE21, MNB20, MHR22, MIW21, MD20b, ND20, Nis22, NWM21, NVK+22, OGVM22, PAN20a, PLL+21, PML22, RRM+22, KRW20, KRV20, RGL22, Sab20, SGB+21a, SGW21, SKD21, SRD20, SAL+22, SNF20, SS22b, SSO22, SOBP22, TFCH22, TZ20, TTSP21, TLB20, Vre17, Vre21a].

Simulation-based [WGY20, WL20, WYHL21, WNB21, WGU+22, WNN+22, XKZ21, XBD+20, YWN20, YZSD21, YYM+22, ZB21, XHD+20, YWN20, YZSD21, YYM+22, ZXBS22, ZSM22, ZR20, ZZZ+20, ZXX20, ZPS+21, ZF20, dKSA22, vNGB22, RBBD22].

slopes [YWCIL22]. small

[GLJB20, Par22, VEC21, WDL+21a]. small-scale [WDL+21a].

Smoluchowski [Osi20]. Smooth

[HS21, JW21, BE20, CLT21, HJ22, HP22a, QG21, Ste22]. Smoothed


smooth [HSS21, JW21, BE20, CLT21, HJ22, HP22a, QG21, Ste22]. Smoothed


solutions [ARB+21, AK21, BZ20, CE21, CW21, CS21a, DM21, FMJ21, FCBM22, Gar21, GCDT22, Gin21, GLT+20, GQ22, Hac21, HHVM20, HJH+21, HBF21, JL21a, KNT22, LC22, MHW21, PB20a, RWY21, Ste22, SZW+20, Svi22, TRC22, TGS+22]. solvable [Che20, FZQ22b]. solve [OWHN22, RA21, TWY+22b].

solved [YH22b, ZP20]. solver

[AMB22a, ARGK22, ATCS20, Bal20, BDL+20, BG20c, Cai21, CSCL20, CDT22a, CSM20, CS21b, CLJ+20, CQA21, DDVO21, EGG22, FAA20, Gao22, GRT18, GRT21, GZ21, HJ22, MVK20, NQ22, OGL22, PP22a, QSZB20, RUG20, RHR20, SGM20, SGB+21b, SPS21, WHN+20, WH22a]. solves [TR21].

solving [AL21, BG20b, CHOS21, CPK22, FY20, GZ21, GWZ22, HLZ20, HJ22, MVK20, MFW22, PZ21, PMACG21, ZLS22, ADK+21, BR22, Bat20b, BAK22, BLM22, CCL20, CCE+22, CLDC20, CDX22, CEM20, DCG20, DSZ22, EBC+22, EFO19, EFO20, FZ20b, GSW21, GKPT22, GAB22b, HNS20, HLA20a, HSS21, HRWP22, KKB20, KNS21, LSS20, LM21b, LCR22, LZY22a, LT22b, LFT+20, LMUHR22, LMK21, LPW21, LZCC22, MHW21, NCQ22, OSL22, OGG20, PKC22, PK20, QG21, Sab20, SAP22,
LS22, LHM20, RGLN22, SL20a, SOV21, SBC20, YYM+22]. spike [KSST21].
spin [KVQE21]. SPINN [RR21a]. spinor [CL21]. spline
[BBF20, FBCD22, GFF20, LBSR20]. spline-based [GFF20]. splines
[FBCD22, HP22a]. Split
[KSGB20, CND22, GMRS20, GU20, HRRHG21, KK22b, Lak20, LJW+22,
Li20, MKB20, MD20b, SDKL21, SBL22, SKTK21, ZDC20]. split-step
[Lak20, Li20, SDKL21, ZDC20]. splitting
[ARB+21, AAKW20, BCWD21, BL20, BGSP22, CQA21, DS22b, EPV21,
EOP20, EK21, GPHAPR+22, LQX22b, LQX22a, LZ20a, LWW21, OGV22,
Sac22, SL22b, Tow20, XLZ21, XG22, Yn21, ZY21, ZOG21b, ZZH22].
splitting-based [GPHAPR+22]. splittings [BS22a, BG20a]. SPOD
[LMS+22]. spray [TTSP21]. spreading [HRR21]. Spurious
[Gin21, AWB+20, CE21, IKP22, JP22, SKTK21, XLS22]. square
[LSZY20, YK22]. square-based [LSZY20]. Squares
[GTKA20, GKA22, LKEM21, BBGT21, CCL20, CCL21, DVS22, HWDM22,
JRY+20, LCWJ20, PC21a, SMSAG22, TB21, ZC22b, ZC22c]. SRS
[WNZ20]. SSDDC [PBN+21]. stabilisation [MAPS20]. stabilised
[NYY22, SPF21]. Stability
[CS22, KD21b, LQX22b, LQX22a, PCQL20, RV20, RC20b, TCS22, BCF22,
CMR21, CN21, DZJ22, DBC+22, GS22, GFY20, GLT+20, HBFB20, HP22b,
KBCH20, LW22b, MD20c, OY21, RUG20, RWBS21, WMT20, ZHY22].
Stability-enhanced [PCQL20]. stabilization
[CMS+22b, DHM21a, TT22a, XBD+20]. stabilize [ZOG22]. stabilized
[Cd522, FGF22, FCWT22, LT20b, TCK+22, WGY+21, Yan21b, ZJZK20].
stabilized-Invariant [Yan21b]. Stable
[BFM21, BL21b, Gla21, GCSH22, MBAG21, vtW22, Abg20, AD21, AP20,
AK22, BBC21, BGF20, BKY21, BWG+20, BDMP22, BCD22, CMR21,
Cha20, CT22, CLW22, CWW20, CSY20, CND22, CDN+22, CMRR21, DNN22,
DWW221, DW20b, DT20, DT21a, DT21b, DT22c, DVB20, FCWS22, FSB+20,
FAA20, GCL22, GHHR22, Gar20, GZW20b, GMD22, HZHL22, HRRHG21,
HX21, HY22, HSS21, HSW22, Jai22b, JRD22, KLS+20, KWD22, LBS20,
LS22, LN22, LSC22, LB21, LGL22, LNY20, LBM20, Lin20b, LMF22a,
LMF22b, LsCXL+20, MRK+20a, MRK+20b, MRK+20c, MGV22, MPSP22,
NT20, Nor22b, NMR+21, NMR+22, PHP21, PBN+21, QW221, QW22, Ren21,
RBD+21, RRHH+21, San20, Sar21b, SHL+20, SN21, Svi21, TT22b, UY22,
VRK21a, VPDD22, WTX+21, WH22b, WZSC22, WKW+22, WL221, YU22,
YD20, Yan21b, Yan21c, YYY+22, ZEG21, ZY20b, ZOWW20, ZR20, ZH21].
stage
[BJ21, CCW20, FLW20a, GWC+22, KSS22b, LC22, SL22c, WZZ21b, ZLW+22a].
staggered
[BBD+20, BDF+21, DV20, GS21, KKS21a, KKS21b, LPP+20, LL21b, LD20a,
OP20, PKC22, QPW21, SWG+20, Vre17, Vre21a, WY22b, XZC21, ZLW22b].
staggered-grid [SWG+20, ZLW22b]. staggered-projection [LL21b].
standard [HPRW20, SC22c]. State
[KBC22, MOBR22, AHG21, AMK+21, BG21, CL20a, CKT21, Dup21, GSW21, GTDB22, GAB+22a, HLB20, HKS20, KM22b, LYY20, LZZ21a, LZZS22a, LRAQ22, Liu20a, PSRM20, RA21, SZW+20, WX22, WDS22, Wan22, ZCH22].

state-space [HLB20].

states [AFL22, CL21, GLJB20, NKT21, Nis20d].

static [AFGLM20, BTCV22, ER22, LAT+22].

statically [RRFK+21].

Stationary [CL20a, CSA21, EPV21, LY22c, MP21, NG22, XS22a].

statistical [BT22, DCSG22, WKA+22].

statistics [BCJM20, CDJM21, Che20, GKA22, KAC22].

Steady [JP22, GSW21, GLK20, JLL22, KM22b, LZZ21a, LRAQ22, Liu20a, LFZ21, MD20c, PSRM20, RA21, SZW+20, WX22, YZSD21, ZG20].

steady-state [LS22].

steady-state-preserving [Liu20a].

steepness [HRY+22].

steepness-based [HRY+22].

Stefan [BEB+22, FM20, HS21, WP21].

Steklov [AIN20].

Steklov-Neumann [AIN20].

Stella [SOBP22].

stellarator [GWC+22, VCPGR20].

stellarators [MND+20].

stencil [AD20, XBRL21].

stencils [ID20].

step [AN21b, CC22b, DevW22, HTV+22, Lak20, L21a, Li20, LD20b, LKG+20, LHFH20, PCB21, PCB22, PSRM20, SDKL21, YWCIL22, ZDC20].

stepping [ARC22, CP22a, DGL22, GLLM22, KS22a, LJW+22, ILT22, NAZ22, Sev21, SSA21, SP22, VLV20, WGU+22, ZRY20, ZY20b].

steps [LOL22].

steric [QWZ21].

stiness [DE22].

stir [CFS+22].

Stochastic [AKWY20, DYGC22, EH22b, FGK22, GFPO22, OPM22, Sab20, SQSS20, WK21a, ACHG+21, BTZ22, BGH21, BJR22, CGC21, CL20b, CL20c, CHF21, CCHS20b, DEN22, DFJ22, ELSV22, EPL21, FGB+20, FZL20, FJ21, FJH22, GWZ22, HHS22, HHL22, KTBP20, KKS21, KMF20, LSS20, LJ20, LPZ22, PZ20, PB20b, RM+22, SS20, SP22, SSX22, WMS21, WDB+21a, WDL21b, WDL21c, WCF22, WDB22, X21, XF21a, X21, X21, YWCL22, ZDH20, ZRY20b].

stochastic-extended [ACHG+21].

stoichiometry [SVDrTB21].

Stokes [GHHR22, HMK20, LMF22a, MRK+20b, NYY22, NMR+22, PST20, QHLL20, Vc21b, ADK+21, AKWY20, AK21, Bal21, BCIT22, BHK+22, BP21, CZZ21, CL22, CZ20a, CLDC20, CJ22, CQ21, CK21, CP22, Co20, D22, D22b, DS20, DLY22, DG22, DQ21, DQZ22a, FHW21, FHW21, GCvR22, GS22, GCL+22, HFB20, HOM+20, HR20, HRW22, JCL21, JK20, JK20, KS22c, KS22b, KS21, KLS+20, KKS21, KRP20, L21a, LN22, LH22, LG20, LD20a, Li20, LCSZ21, LLN21, LLO22b, LNY20, LFT+20, LMF22b, LP20b, MRK+20a, MHL22, MOBR22, MBE21, MDF21, MHY20, NA22, NGZ22, OY21, OBB22, PCB21, PCB22, RUG20, RRF21+21, Sc22, SP22, Th22, UV22, Vc21b, WZT21, WZBV20, WSH2, Y22, YCM+20, YL20, YA21, ZML20, ZL21b, ZGR22, ZLW+22a, ZH21, aKAK20].

Stokes-Korteweg [DD22b].

Stokes/Cahn [MRK+20b, NMR+22].

Stokesian [OSZ21].

strain [FB22, Z21].

Strang [LQX22b, LQX22a].

strategies [ADM22, BBDT21, KRL21, KR22, KWF20, LAS22].

strategy [ABDD20, CCL20, FO22, KD21a, LSS20, MLC21, Slia21, SFGRM21, S22].
Supplemental-frequency [LE21b]. suppressing [LKG +20]. Surface [CHL20, GKA22, RPA22, RGLN22, ADM +21, BGR20, BDB21, BCC +20, CN22, CPGD21, CMNS21, DDVO21, DZL +22, DEvW22, GMMS22, HPW21a, HRR21, HMO +20, HT20, HT21b, Ian20, IMJ20, JKZS21, JRY +20, JL21b, KS11, KH20, LB21, LMZ +21a, MJJ21, MKH20, MSK +22, PSL20, Pop20, VSB +22, XJN +20, XC20, XLB22, XZWH22, YKL21, ZSY21, YK20b].
surface-gradient [CN22].
surface-plasma [VSB +22].
surface-resolved [RGLN22].
surface-tension-driven [XJN +20].
surfaces [AAM20, BFP21, CL20d, GTKA20, GKA22, KBCG20, KT20, LCWJ20, LZLZ21, LY20b, QERT20, SOSM20, TFCH22, TSSOA20, XFL21, XY20a, YLK20, YQO20, dKSA21].
surfactant [YTK22].
surfactants [ZKY +20].
Surrogate [ELSV22, WCZ22, ZTS20, CPH +22, TLD20, WLS22].
surrogates [RK21].
surrounding [XLT +20].
survey [KLG +22].
suspension [LYL20].
suspensions [KVQE21, QAS20, STWK21, TACO22, UD22, WNB21, WSS22, WDK22, YCM +20].
sweep [BVR22, TR21].
sweep-based [BVR22]. Sweep-Net [TR21].
sweeping [DMRG22, EEG22, GHY22a, L22, LZ21a, LA21].
sweeps [AAH +20, VRAM21, TZNHD20].
swept [VKR +22].
symbolic [BSCG22].
Symmetric [BEP +20, Bre20, BCC +20, GDL22, HSK +21, HLY20, LKM22, Li22, NFA21, Nor22b, XHD21].
symmetrizing [AS20].
symmetry [BBA22, GWC +22, ZNCZ +21].
Symplectic [AKK20, TXH +21, CS20, CHSS20, HHL22, SSX22, VK22, Zha22].
symplecticity [SX20].
Syngle [CKT21].
synthesis [CHG +20, DCSG22].
synthetic [ZPS +21].
System [NCC21, ATCS20, Bat20b, BCF22, BGH21, BCC +20, CH22, CMS +22b, DD22b, DWW22, EH22b, GHR22, GlLM22, GCL +22, ILX22, KN20, LCG22b, LLNL21, LNZ21, LFT +20, LL21d, LCJ +20b, MK +20b, MCV22, MBTS20, NDH20, NMR +22, PGM22, PBVC22, SMY22, SZ21, TTM20, Tlu22, YTK22, YH22a, YRC +21, ZG21].
Systematic [MD21, FSWA22, YXL22].
systems [AHR20, AAKW20, BCWD21, BTK22, BRS22, BPT +20, CMP +21, C22b, CM20, CL20c, CX21, CS21b, CBA +21, DJJ22, DS22, EDF20, EPL21, EPL22, FADJ20, GlCM22, GDL22, GKL21, GZ20, GPS20, GLT +20, HLX21, JLL20, KK20a, KGB20, KWF20, LC20, Li22, LSLH20, LsCXL +20, LA21, MD20a, MHW21, MHW22, NN21, NV22, NG20, PPP21, PC21a, PNT +22, PGCC +22, SGB +21b, SSW22, SMR22, SWM +22, TJ22, THK21, TXH +21, VSS21, VN21, WMTQ20, WHN +20, WKA +20, YD20, YAX20, ZS22b, ZH20].
tackle [ZL21c].
Tahtal [MMSW22].
tailored [CCM +22].
tangency [GLWY22].
tangent [WYP22].
tangential [XFL21].
tank [RB21].
target [AN21b, LHT21, RT21b, Sab20, WK20].
target-fixed [LHT21].
target-specific [WK20].
targeted [PLL +21].
targets [USRH20].
task [TSP22, ZO21].
Taylor [CMP +21, Mon21, RS20a, RHSK21, SSS22, TXH +21, WCZ +20].
TD
technique [ADK+21, EAK20, GKP22, KSK21, LG22, LPM22, LLPL22, PCB22, QG21, TSS+20, VEC21, XSC21, XY22, ZDW22].

Techniques [MVO+22, GQG20, FCW21, FMOJ22, JKZ21, JRY+20, KC20b, MYL21, RBPR20, VLC+20, VK22, WL20, YG21, ZWZL22].
teleportation [PV20, SH22].
telescopic [BKY21].
temperature [LPM+20, SEG21a, SW22].
temporal [EPV21, SOG+22, CA22b, HGB20, HL20c, JTT22, KLF22, LP21, LL21a, LLW20a, WWFM22, XKZ21, XBRL21, YH22+, ZCZ22, ZHY22, ZL21c, ZLW22b].
temporally [KJ22, MD20c].
ten [BKY21].
ten-moment [BKY21].
ten [BKY21].
tension [BCC+20, CPGD21, CHL20, DvW22, HP21a, HT20, HT21b, IM20, LMZ+21a, MJ21, XJN+20, ZSY21].

tensor [BVT20, HKKS21, AT20, CN21, CV20, DV21, GQ22, Kho20, KHM+22, LHZ22, LKZ21, LP21, LL21a, LLW20a, WWFM22, XKZ21, XBRL21, YH22a, ZCZ22, ZHY22, ZB21c, ZLW22b].
tensorial [LQX22b].
tensors [GDLL22].
term [BZC+22, GBLT20, MFT20, SKT20, WHN+20].
terms [AOR22, BS22a, JJ21, KSHJ20, PR20, WZ21a, ZH20].
ternary [DWWZ21].
terrain [Ba21].
terrain-following [Ba21].
Test [RA21].
tests [SDA+21].
tetrahedral [AE20, GZ20, JBF21, Nis20b, YCH21, ZS20].
tetrahedron [CIMG21].
TgNN [XZRW21].
TgNN-wf [XZRW21].
their [BCJM20, BBQ+21, DLMZ22, GQ22, KMS20, LLSD20, MAPS20, NDIL21, PA20].

Theoretical [tLjTbZ22, KNG22, KGN22].
Theory [BWG+20, CHZ+21, GDF21, AFL22, CSA21, FM20, HJK+21, Ish22, NTS20, RDD20, SOSM20, SL20b, TMG20, VGG21, WCZ22, XLL22, XZRW21, XD21, Y20, ZSY+20].
Theory-guided

[CHZ+21, WCZ22, XZRW21].
Thermal [BOB21a, Ani21, CZ20b, CCW20, DC22a, EM20, FAD20, F21, GA20, GFG22, Kan20, KM22b, KLF22, MMZ21, MH22a, PGM22, TD20, TBG20].
thermal-compositional-reactive [CCW20].
thermally [XLYL22].
thermo [HL22a].
thermo-gas-liquid-solid [HL22a].
thermoacoustic [LB21].
thermochemical [FCW21].
Thermodynamically

[PMT+22, KLX+20, KWDS22, PA21].
thermometry [BAK22].
thin [ACML20a, ACML20b, BW20, BBK21, CCPS21, CMPZ22, HYSS22, HCL22, Hig20, LW22, PH22, QERT20, VSS21, VACE21].
thin-film [ACML20a, ACML20b, PH22].
THIN [DKX+21, TFWX22].
Third

[QLY21, Uni21, XS22b, LL21a, LWY22, ZL21b, ZS20, vLN21, NV22].
third-order [LL21a, ZL21b, ZS20, vLN21, NV22].

thoracic [TVL+22].
Three

[CPX21, CS21c, HRR21, HHL22, LW20b, TTP22, ABH21, BG22a, BSA22, BDL+20, BY20, Cam21, CCM+22, CJLL21, DIL22, DYGC22, FSW22, FZ20a, FW22, FGL+22, GHY22a, Gao22, GSPM20, GL20, GZ21, HSG+22, JZ20, JLL22, KKCC20, LSW20, LZC+20, LJKZ21, LRT22a, OYK+22, PL20, SL20a, SOV21, SKCM22, VNC+21, XY20a, XZ20, YLNT20, Yn21b, YSCM21, YK22, ZY20b, ZGL22, ZGF21, ZWZ22, ZPG22, ZSSc+22, ZXY22].

Three-dimensional [CS21c, TTP22, Cam21, CCM+22, FSW22, FZ20a,
FWG22, FGL+22, GHY22a, GZ22, HSG+22, JLL22, LRT22a, OYK+22, PLV20, SL20a, SOV21, SKCM22, VCNC+21, XS20, YLNT20, YK22, ZGLL20, ZFG21, ZWZL22, ZPGR22, ZXY22.

three-domain [ABH21].

three-field [BGS22a].

three-phase [GPSMH20, ZY20b, ZSsC+22].
	hree-point [BSA22].

three-scale [DYGC22, YSNC21].

Three-way [LW20b].

threshold [ZEG20].

throughput [ZO21].
tilts [PV20].

Time [AH21, An21a, AL20, BDT21, Bar22, BFM21, Jen20, JLY22, LKG+20, TLB20, ZLW22b, ARC22, AHG21, AG21, AFL22, ATCS20, AFGLM20, AMM20a, AAKW20, AMB22b, AL21, BGFH20, BB20a, BFF+21, BG20a, BTEK22, CEMO21, CMR21, CP22a, CZ22a, CL20c, CY22b, CW22b, CC22b, CBA+21, CELV21, CELV22, CA22a, CS4+22, DGGL22, DEvW22, DW21, DGW20, DF20, DV22, EDLF20, EPL21, FVM22, FGKY22, FY22, GCVI22, GJLD20, GMB+22, GTDB22, GA20, GPHAPR+22, GFG22, GR21, GKA22, GW20, GLMM22, GLY22, HBF20, HPA22, HSM20, HZB+21, HTV+22, HR20, HL20a, HX21, HL20b, HRG20, HYZH22, HLH21, JZ21a, KSTT22, KTDG22, KS22a, KCS21, KSW22, KN21, LS21c, LJW+22, LPP+20, LOL22, ILT20, ILNZ21, Liu20b, LD20b, LHWZ21, LR22, LN21b, LY22c, MDG20, MPSP22, MBE21, MYL21, MBB22, MMRP22, MMPP20, NA22, ND20, PCK22].

time [PB20b, PMF20, PM21b, PH22, PTT22, PM22b, PC22, Qia22, QHLL20, QC22b, QW22, RMA20, RLH22, RC20a, RV20, RC20b, STEK17, STEK22, SSF21, SFW21, SMA21, SES21, SFGNMGN22, SP22, TCS22, TFC22, TCR+20, Un21, VRK21a, VLY20, VdGP20, WRBK20, WMTQ20, WTX+21, WZ22, WDK22, WGU+22, YLNT20, YZdCNS21, Yan21c, YWCIL22, YW22, Yin21, YL21a, ZS22a, ZRH20, ZY20b].

Time-Accurate [BFM21, CMR21, Yan21c].

Time-dependent [AH21, AFL22, AFGLM20, AMB22b, BG20a, CZ22a, DGW20, GMB+22, GR21, HAP22, KCS21, PB20b, PMF20, PM21b, PH22, PTT22, Qia22, QHLL20, QC22b, RV20, RMA20, STEK17, STEK22, SSF21, SFW21, SMA21, SES21, SFGNMGN22, SP22, TCS22, TFC22, TCR+20, Un21, VRK21a, VLY20, VdGP20, WRBK20, WMTQ20, WTX+21, WZ22, WDK22, WGU+22, YLNT20, YZdCNS21, Yan21c, YWCIL22, YW22, Yin21, YL21a, ZS22a, ZRH20, ZY20b].

Time-parallel [CEMO21].

Time-variant [AG21].

Time-periodic [ME21].

Time-reversal [KTDG22].

time-series [HYZH22].

Time-space [An21a, ZLW22b, Liu20b].

time-spectral [EDLF20, HBF20, RMA20].

Time-step [LKG+20, CC22b, DEvW22, HTV+22].

stepping [DG22l, LJW+22, ILT20, NA22, SP22].

stepping-varying [GLM22].

stepping [LW20b].

time-variant [CL20c].

time-varying [SF20].

time-space [KSTT22].

times [LZ22b].

timestepping [BBCD22, KBC20, MDF21].

tip [CC22a].

tissue [KSH20].

tissues [TB22].

TMI/ALE [CPGD20].

Tokamak [EFR21, GRC+22].

tokamaks [CDT22a, HSB20].

tolerant [GB22b, KD20].

tomography [FY20, RB22].

toolbox [CDJ21].

topography [GKPT22].

topological
86

[KWS22]. tumor [LHL+22]. tuned [DHR20]. turbomachinery [AFP22].

**turbulence** [ASSZ21, BBF20, BABD21, BGS+22b, CDMS21, CPX21, DGW22, FJG+20, GRC+22, GCSH22, KL20, KFP+22, KKS+21, LMFV22a, LMFV22b, MND+20, MH22b, PPHO22, SSG21, SFNM+21, TSS+20, WGY20, WZSK22, YCh20, YGJ21a, YGJ21b, ZAW+20].

**turbulence-induced** [PPHO22].

**Turbulent** [SI22, BJ22, BDB21, BPJ22, CPX22, CMH20, CM20, Che20, CF22, CPBB21, DJID20, RSB20, GFY20, HSMR20, HM21b, JG+22, KSBG20, KKY+21, KD20, KS21d, LNC+21, LAS22, PJW21, RWDG22, TGS+22, ZO21, vNGB22].

Tusas [GNF22].

TVD [SBVM20].

**twisted** [YB22].

Two [CS20, HJH+21, Hua21, LXD+20, QERT20, WWR20, YRC+21, AdDMT21, BJ21, BL22a, BDMP22, BV22, Bre20, BMQ20, BE20, BR22b, Ca21, CSCL20, CY22b, CZL20, CLJ+20, CBII20, CNC21, CK21, CLP22, CMRR21, DZ22, DYM+20, DC21, DMY22, DTC20, FTZ22, FCBM22, Fu20, GDBF+20, GQS20, GCV20, GCL+22, HD21, HKS20, HCL22, HLA20b, HLA20c, IKP22, JMM20, JIA22a, JM22, JWW20, JGR22, KBH20, KLS+20, KWDS22, KKY+21, LL20, KLM22, LHC22, LL21b, LOL20, LLW20a, LWR20, LZS22b, LLPL22, LJZK21, ILNZ21, LC22, LY20b, Li21, LSZ22, LRT+22, LLCK20, MJ21, MTO21, MA21, MD20, MCB20, MM20, MM21c, MM22, MP21, MD22, NKA+20, PB20a, PEA20, PA21, PJ22, PMF20, PL20, PRL22, QPW21, QSZB20, RWDG22, RSA+20, SBH21, SEC21a, SCB20, SSL22, SSP20, SRD20, SWH22].

two [SMR22, SH22, SAD+21, TPYX22, UBT22, WCZ22, WZ21b, X20, XLZ21, XZ22, UX121, XM20, YLW21, YA1, YMY+21, YZ20, YNT20, ZEC20, ZS22a, ZXB20, ZMWS22, ZLW+22a, ZB20, ZSQ21, ZSY21, ZQS+21, ZQ+22, ZF20, ZGK+22, ZOE20, aKAK20, dSldA+22].

two-derivative [KBC20, SMR22, ZEX22].

two-dimensional [Hua21, YRC+21, Bre20, CLJ+20, DZ22, DYM+20, DC21, DMY22, DTC20, FTZ22, FCBM22, Fu20, GDBF+20, GQS20, GCV20, GCL+22, HD21, HKS20, HCL22, HLA20b, HLA20c, IKP22, JMM20, JIA22a, JM22, JWW20, JGR22, KBH20, KLS+20, KWDS22, KKY+21, LL20, KLM22, LHC22, LL21b, LOL20, LLW20a, LWR20, LZS22b, LLPL22, LJZK21, ILNZ21, LC22, LY20b, Li21, LSZ22, LRT+22, LLCK20, MJ21, MTO21, MA21, MD20, MCB20, MM20, MM21c, MM22, MP21, MD22, NKA+20, PB20a, PEA20, PA21, PJ22, PMF20, PL20, PRL22, QPW21, QSZB20, RWDG22, RSA+20, SBH21, SEC21a, SCB20, SSL22, SSP20, SRD20, SWH22].

two-grid [DZ22].

two-layer [DSBFN+20, Li21].

two-medium [YLW21].

two-phase [HJH+21, QERT20, AdDMT21, BL22a, BDMP22, BV22, BMQ20, BE20, BR22b, Ca21, CSCL20, CY22b, CK21, CLP22, CMRR21, DZ22, DYM+20, GDS20, WWR20, HKS20, HCL22, HLA20b, HLA20c, IKP22, JMM20, JIA22a, JM22, JGR22, KLS+20, KWDS22, LHC22, LL21b, LOL20, LLW20a, LZS22b, LLPL22, LJZK21, ILNZ21, LC22, LY20b, Li21, MD20, PB20a, PJ22, PMF20, PL20, PRL22, QPW21, QSZB20, RWDG22, RSA+20, SRD20, SWH22, SDA+21, UBT22, WCZ22, WZ21b, X20, XLZ21, XZ22, UX121, XM20, YLW21, YA1, YMY+21, YZ20, YNT20, ZEC20, ZS22a, ZXB20, ZMWS22, ZLW+22a, ZB20, ZSQ21, ZSY21, ZQS+21, ZQ+22, ZF20, ZGK+22, ZOE20, aKAK20, dSldA+22].

two-scale [Hd21].

two-sided [LL21b].

two-species [RWDG22].

two-stage [BJ21, LC22, WZ21b, ZLW+22a].

two-temperature [SEC21a].

two-way [CZ22b, CBII20, PEA20, PA21].
[HMMO20, HRG20, XF21c, AA1+21, ASBM20, AHR20, AM22, AD21, ALCZ20, AEGV22, AM22, AMB22b, Bal21, BBGTV21, BSZ22, BS+22b, BPJ22, BRS22, CSASS21, CF21, CCN21, CC22a, CZ22b, CBA+20, CP20, DD22a, DEW22, DSZ20, DHTM21, DHR20, DW21, EDL2F20, EFR21, FTP20, FZS+21, FADJ20, FC21, FBG20, FM20, GLS22, GZW20a, GKA22, GCSH22, GFF20, GWZ20, Hac21, HPM21a, HSK+21, HL20, HRMY20, HTL21, HCL22, HX21, HL20c, HLA20b, HXFD20, HSS21, HWDM22, HSG+22, IJ21, JADS21, JLC21, KTD22, Kan20, KS22b, KTBP20, KFSM21, KKY22, KLN20, KL22, KIV21, KNS21, KHS20, KKY+21, KD20, KB22b, LCG22b, LEKM21, LK+22, LC20, LPP+20, LJ21, LNZ21, LM21b, MN22, MO22, MLM+21, MSK+22, MRYS20, MZC+22, MM21c, MM22, MD20c, MS20b, ND2LPL21, NDH20, NKT21, OJ21, OJTD21, PZ21].

using [PJW21, PKG20, PCB22, PS22b, PTT22, PKL+21, RG22, RMD20, RUG20, RS20b, RHF22, RSWD21, RLM22, RH20, RBB22, RA21, SWG21, SP2F20, SEG22, SFNN+21, SO22, SACT21, Ste22, ST22, TBC20, TRC22, TSS+20, TPSN20, U20, V+20, VM21, WMS22, YZ20, WQP20, WZ22, WWP22, XHH21, XHD21, Y21, Y21b, YSTK20, YTH2b, ZSP20, ZA21, ZHPZ21, ZLS22, ZAW+20, ZMG+22, ZSK22].

utilizing [EMS+21, JY21, YJK21, Z21].


tectors [SL20a]. Vegas [Lep21]. velocity [ALCZ20, BLL20, BLL20, Bat20b, BCR22, CHS20a, GCCvR22, GEvWD22, HP21b, MD20c, NFl+21b, OGM20, SL20a, WZ22, XL20, YGW+20, YZD21]. velocity-related [WZ22]. velocity-space [XL20]. velocity-vorticity [HP21b, MD20c].
ventricular [GGN+20]. verifiable [PM22a]. verification [BWG+20, FCW21, FM22, FMOJ22, JHJ20, Nis22a, RMM+22, TRC22, WLZP21].

versatile [USRH20]. versus [KRL21]. vertex [BS22a, CZLC22, GSFH22, GEvWD22, JGR22, LLPL22, SEG21b, SEG22, BMQ20], vertex-based [CZLC22]. vertex-centered [BS22a, GSFH22, LLPL22, SEG21b, SEG22].

vertical [Lee21, MCBA20]. vertically [Bal21, LP21, Pop20].

vertically-Lagrangian [Pop20].

vibrational [WLZP21].

vibration [Ara20].


Viscous [LCF21a, BZC+22, CCPS21, CBF22, DVS22, DS21, FWG22, HP21b, JF20, LZX+22b, LQX22, P21b, PS22a, PR20, QAS20, REC+22, TF20, UD22, WNF22, WNB21, YP22, ZYW21, ZCS20, ZLB22, WK21b]. VISVE [WK21b]. Vlasov [ARGK22, ATCS20, BCF22, CBQ21, CCY+20, CSA21, CH22, EOP20, EJ21, EH22a, GHS22, GQ22, KS21c, NGK+21, SWM21, SS22b, SMY22, YM21].

VMS [PCB22]. VMS-based [PCB22]. VOF [CS21c, DEvW22, GPSMH20, KCC+21, LWZ+21, MMZ21, WYS20, ZZN22, ZOEL20]. VOF-IBM [LWZ+21]. void [WBN21]. Volterra [GW20]. Volume [BGN22, BLM22, CMPZ22, D20, FM22, KIH21, MS20a, MK20, SYOS19, SYOS21, SLOZ21b, SLOZ21a, TNB21, YNT20, AE20, ADM+21, BHJ+21, BAK22, BG21, BFI22, BSA21, BDL+20, BDL+21, BL22b, BR22b, BSP21, Can21, CNMB20, CZLC20, CW22a, CZLC22, CNMC21, CA22b, D22, DVS22, DEvW20, DGW20, FTP20, FZQ21, FGL+22, GYWH20, GTDB22, GYH22b, GSQ20, GSFH22, GEvWD22, GLK20, HZTN21, HVB21, HST22a, HRWP22, IMJ20, JN20, KdMJ+22, KdD+22, KCH21, KKS+21c, LW21, LFW+21, Lév22, LOL20, LLPL22, LSZY20, LZLS21, Lnt21, LYS+22b, LHJ20, MT21, MD22, NCQ22, NW20, Nis20a, Nis22b, NVK+22, OGG20, PWXY22, PBGB21, PRL22, RV22, RRHH+21, RPDO+21, RWD22, SMSAG22, San20, Sar21a, SCB20, SWG+20, SEG21b, SBVM20, SMREW22, TV22, The21, TPB22, Uil20, VMO21, WLH21, WZW21, XDLX21, XM20].

REFERENCES

Abgrall:2021:P


References


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Assous:2020:TRE


Assous:2021:SIA


Amiri:2020:AII


Amiri:2020:AII


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Anonymous. Editorial Board. *Journal of Computational Physics*, 420(??):Article 109832, November 1, 2020. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
REFERENCES

111


REFERENCES

Anonymous:2021:Ja


Anonymous:2021:Je


Anonymous:2021:Jc


Anonymous:2021:Ma


Anonymous:2021:Mc


Anonymous:2021:Na


Anonymous:2021:Oa


Anonymous:2021:Sa

REFERENCES

Anon


REFERENCES

Anonymous:2021:Md

Anonymous:2021:Nb

Anonymous:2021:Ob

Anonymous:2021:Sb

Anonymous:2021:EBa

Anonymous:2021:EBb

Anonymous:2021:EBc
REFERENCES


REFERENCES


REFERENCES


Anonymous:2021:EBv


Anonymous:2021:EBw


Anonymous:2021:EBx


Anonymous:2022:Aa


Anonymous:2022:Ac


Anonymous:2022:Da


Anonymous:2022:Fa

REFERENCES

Anonymous:2022:Ja


Anonymous:2022:Je


Anonymous:2022:Jc


Anonymous:2022:Ma


Anonymous:2022:Mc


Anonymous:2022:Na


Anonymous:2022:Oa


Anonymous:2022:Sa

REFERENCES


REFERENCES


Anonymous:2022:EBd


Anonymous:2022:EBe


Anonymous:2022:EBf


Anonymous:2022:EBg


Anonymous:2022:EBh


Anonymous:2022:EBi


REFERENCES

Anonymous:2022:EBv


Anonymous:2022:EBw


Anonymous:2022:EBx


Abgrall:2022:REE


Amlani:2020:SHO


Abdulla:2021:IPL

[AP21] Ugur G. Abdulla and Roby Poteau. Identification of parameters for large-scale kinetic models. Journal of Computa-
REFERENCES

Armstrong:2022:NSC

Almeida:2022:APS

Arpaia:2020:WBR

Artemov:2021:SAM

Andrejevic:2022:SCS
Jovana Andrejevic and Chris H. Rycroft. Simulation of crumpled sheets via alternating quasistatic and dynamic represen-
REFERENCES

Araki:2020:RVF


Amiranashvili:2021:ASM


A:2022:ADL


Allmann-Rahn:2022:PLR


Azaiez:2021:CID

Mejdi Azaiez, Tomás Chacón Rebollo, and Samuele Rubino. A cure for instabilities due to advection-dominance in POD solution to advection-diffusion-reaction equations. *Journal of
REFERENCES


Muzafer Akbay, Craig Schroeder, and Tamar Shinar. Boundary pressure projection for partitioned solution of fluid-


Anderson:2020:ECT


Ahmad:2020:LMM


Astoul:2020:ARS


Astoul:2021:LBM


Adia:2021:CLB

J.-L. Adia, J. Yvonnet, Q.-C. He, N. C. Tran, and J. Sanahuja. A combined Lattice-Boltzmann-finite element approach to modeling unsaturated poroelastic behavior of heterogeneous media. *Journal of Computational...
REFERENCES

Physics, 437(??):Article 110334, July 15, 2021. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

Antoine:2022:PMP


Bennis:2021:LTM


Beilina:2022:AFE


Baldauf:2020:DGS

Michael Baldauf. Discontinuous Galerkin solver for the shallow-water equations in covariant form on the sphere and the ellipsoid. Journal of Computational Physics, 410(??):Article 109384, June 1, 2020. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).
Baldauf:2021:HEV


Barnes:2021:ISF


Barsukow:2021:TMD


Barnes:2022:TED


Batista:2020:MIS


Batista:2020:PMM

David Batista. A preconditioned, multilevel Mimetic Finite Difference method for solving the pressure–velocity system. Journal of Computational Physics, 408(??):Article 109272, May 1,
REFERENCES

Beardsell:2020:CES


Berezovski:2020:DDM


Bonilla:2020:MPF


Bauinger:2021:IF


Buhendwa:2022:CSP

Aaron B. Buhendwa, Deniz A. Bezgin, and Nikolaus A. Adams. Consistent and symmetry preserving data-driven interface reconstruction for the level-set method. *Journal
References

Badsi:2021:SFP


Bremer:2022:ATV


Bermudez:2020:SSI


Barucq:2021:LSI


Bay:2020:BCB

[BBF20] Yong Yi Bay, Daniel J. Bodony, and Jonathan B. Freund. Boundary-consistent B-spline filtering schemes and applica-
REFERENCES


[Bale:2021:OSD]

[Banks:2020:HOA]

[Boustani:2021:IBF]

[Bajgiran:2022:UQK]
REFERENCES

136


REFERENCES


REFERENCES

138


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Balsara:2020:ECW

Betteridge:2021:MPH

Bellotti:2022:MFA

Barnett:2020:HOD

Borowska:2021:GPE
Agnieszka Borowska, Diana Giurghita, and Dirk Husmeier. Gaussian process enhanced semi-automatic approximate Bayesian computation: parameter inference in a stochastic differential equation system for chemotaxis. *Journal of Computa-
REFERENCES


REFERENCES


[BHVJ22] Sara Shokrollahzadeh Behbahani, Hadi Hajibeygi, Denis Voskov, and Jan Dirk Jansen. Smoothed embedded finite-volume method (sEFVM) for modeling contact mechanics in deformable faulted and fractured porous media. *Journal
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Brinkerho:2022:VIG

Brugnoli:2022:DFS

Barucq:2022:LOP

Bencomo:2020:PEM

Blanchard:2021:BOO
Bakhvalov:2022:MAE


Basir:2022:PEC


Bezgin:2021:DDP


Bezgin:2022:WNM


BenHassanSaidi:2022:CDS

Ismail Ben Hassam Saïd, Martin Schmelzer, Paola Cinnella, and Francesco Grasso. CFD-driven symbolic identification of algebraic Reynolds-stress models. *Journal of Computational Physics*, 457(??):??, May 15, 2022. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
REFERENCES

Bures:2021:PLI


Bauer:2020:TED


Boniou:2022:CAS


Bogdanov:2022:LSB


Bohmer:2020:EQM

REFERENCES


[Bakarji:2021:DDD]


[Boso:2022:IGP]


[Bi:2022:ACC]


[Boledi:2022:LSB]


[Bloch:2022:TMM]

Hélène Bloch, Pascal Tremblin, Matthias González, and Edouard Audit. Towards a multigrid method for the

**Bohle:2022:CIA**


**Bendahmane:2022:OEB**


**Bempedelis:2020:SAS**


**Bempedelis:2021:SGF**


REFERENCES

Bolm:2020:ESN


Buli:2020:DGM


Bruno:2020:RIE


Borleske:2020:EGR


Barclay:2021:PBC

REFERENCES


[CA22b] Pedro M. P. Costa and Duarte M. S. Albuquerque. A novel approach for temporal simulations with very high-order finite volume schemes on polyhedral unstructured grids. *Journal of Computational Physics*, 453(?):Article 110960, March 15,
Cant:2022:UAM


Caudron:2020:OWC


Cai:2021:MMN


Cai:2022:PID


Caltagirone:2021:ADM


REFERENCES

Ching:2020:TWC

Chung:2020:RSC

Casquero:2021:DCI

Chamarthi:2022:IHF

Cai:2021:HOS
REFERENCES


[CC22b] Siu A. Chin and Durward Cator. The anatomy of Boris type solvers and the Lie operator formalism for deriv-


REFERENCES


[CCM+22] Stéphanie Chaillat, Benjamin Cotté, Jean-François Mercier, Gilles Serre, and Nicolas Trafny. Efficient evaluation of three-dimensional Helmholtz Green’s functions tailored to arbitrary rigid geometries for flow noise simulations. *Journal
REFERENCES


REFERENCES

Cai:2022:SON


Chen:2022:DNN


Chen:2020:SIE


Chiodi:2022:GRE


Cai:2021:CTW

Chan:2021:ITB


Chehade:2021:EPW


Cheng:2022:MSC


Cicchino:2022:PSF

REFERENCES


REFERENCES


REFERENCES

Chen:2022:ESA

Cao:2022:MLR

Carciopolo:2020:CMM

Che:2021:GPC

Cleary:2021:CES
Emmet Cleary, Alfredo Garbuno-Inigo, Shiwei Lan, Tapio Schneider, and Andrew M. Stuart. Calibrate, emulate, sam-
REFERENCES

Chen:2021:EDF

Coughlin:2022:EDL

Chan:2020:ESR

Chakraborty:2021:TLB

Chen:2020:LNT
Nan Chen. Learning nonlinear turbulent dynamics from partial observations via analytically solvable conditional statistics. *Journal of Computational Physics*, 418(??):Article 109635, October 1, 2020. CODEN JCTPAH. ISSN 0021-9991 (print),
REFERENCES


**Cagas:2020:PMB**


**Chen:2020:EQI**


**Chekroun:2020:ENS**


**Chen:2021:TGH**


REFERENCES


REFERENCES


Cheng:2020:SOC


Cheng:2020:EFB


Chai:2020:FDD

Cheng:2020:NIC


Chen:2021:CSL


Chang:2020:EMC


Chan:2022:ESM


REFERENCES


REFERENCEs


REFERENCES


Couture-Peck:2020:NT


Chiocchetti:2021:HO


Cheng:2022:DDS


Cho:2022:SIN


Cao:2021:TDH

References


[CRPB20] Mirco Ciallella, Mario Ricchiuto, Renato Paciorti, and Aldo Bonfiglioli. Extrapolated Shock Tracking: Bridging shock-

**Cai:2020:TCL**


**Chen:2021:NMS**


**Chen:2021:RGP**


**Comminal:2021:TDC**


**Cosgrove:2022:SAH**

[CS22] P. Cosgrove and E. Shwageraus. Stability analysis of higher-order neutronics-depletion coupling schemes and Bate-

**Chiabo:2021:LSV**


**Calvo:2021:HRN**


**Carmouze:2020:RSI**


**Costanzo:2022:PTA**

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Chen:2021:DNT

Chen:2021:GRN

Cockburn:2022:ABA

Cockburn:2022:ABS

Choi:2021:PTD
REFERENCES


**Chassagneux:2022:NAS**


**Chen:2022:SOT**


**Cheng:2022:PFC**


**Cheng:2022:SSN**


REFERENCES

Desai:2022:TOS


Dusson:2022:ACE


Deshpande:2021:UFG


Dargaville:2020:SAA


Deka:2020:NGG

REFERENCES


REFERENCES


DalSanto:2020:DDA


Dalmen:2022:CEN


DeVita:2021:FES


Duchemin:2022:MMA

REFERENCES

Duan:2021:FIP


Dai:2022:HPW


Denner:2020:CFV


Denner:2022:BCT


Dumbser:2020:GCC

Michael Dumbser, Francesco Fambri, Elena Gaburro, and Anne Reinarz. On GLM curl cleaning for a first order reduction of the CCZ4 formulation of the Einstein field equations. *Journal of Computational Physics*, 404(??):Article 109088, March
REFERENCES


REFERENCES


REFERENCES


Dunton:2020:PEM


Dutt:2021:HOM


Dalmon:2020:FMI


deKinkelder:2021:NMS


Dong:2021:MBI

Suchuan Dong and Zongwei Li. A modified batch intrinsic plasticity method for pre-training the random coefficients of extreme learning machines. *Journal of Computational
REFERENCES


Dong:2022:SBI


Dou:2022:DCA


Deng:2021:AYS


Don:2022:NRS


Duan:2022:EDA

[DLY22] Beiping Duan, Buyang Li, and Zongze Yang. An energy diminishing arbitrary Lagrangian–Eulerian finite ele-

[Dai:2021:POU]


[Darbon:2021:SNN]


[Hurtado-de-Mendoza:2022:NMA]


[Dao:2022:ESA]

Dunning:2020:AMR


Dai:2022:MSP


Dong:2021:MRP


Deck:2020:TEP


Ding:2020:CGE

Dolejsi:2021:NST


Delmas:2022:PHO


Duong:2022:ARS


Delgado-Sanchez:2020:TLS


DeKlerk:2022:VID

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


**Du:2022:PML**


**Dana:2022:TGS**


**Deng:2022:TOS**


**Estivalezes:2022:PIB**


Evstatiev:2021:NEA


Egan:2020:XRC


Egan:2021:DNS


Endeve:2022:CDM


Escalante:2022:SGM

José A. Morales Escalante and Clemens Heitzinger. Stochastic Galerkin methods for the Boltzmann–Poisson system. *Journal of Computational Physics*, 466(?):??, October 1,
Espig:2020:IAP


Einkemmer:2021:APD


Einkemmer:2021:MME


Ellison:2022:GPB


Ewert:2021:HAS

[EK21] Roland Ewert and Johannes Kreuzinger. Hydrodynamic/acoustic splitting approach with flow-acoustic feedback for


[Exl:2021:PMD] Lukas Exl, Norbert J. Mauser, Sebastian Schaffer, Thomas Schrefl, and Dieter Suess. Prediction of magnetization dy-


REFERENCES


Fleischmann:2020:LDM


Farago:2020:ABD


Fuhg:2022:MDE


Frambati:2022:PUS


Farquhar:2022:GBH


REFERENCES

Fu:2020:CEM

Facca:2021:BSE

Freno:2021:CVT

Feng:2022:FEU

Franceschini:2022:SPS
REFERENCES


[FFRT+21] Javier Fernández-Fidalgo, Luis Ramírez, Panagiotis Tsoutsanis, Ignasi Colominas, and Xesús Nogueira. A reduced-


REFERENCES


REFERENCES


(Fierro:2020:FCP) Ignacia Fierro and Carlos Jerez-Hanckes. Fast Calderón preconditioning for Helmholtz boundary integral equations. *Jour-
REFERENCES


Jan Francu and Jirí Mikyska. An alternative model of multicomponent diffusion based on a combination of the Maxwell-Stefan theory and continuum mechanics. *Journal
REFERENCES


REFERENCES


REFERENCES


Fumagalli:2021:MMT


Fillo:2020:FLM


Furfaro:2020:TSC


Falabino:2022:CUF


Fang:2022:CFE

Rui Fang, Christoph P. Schmidt, and Wolfgang A. Wall. A coupled finite element approach to spatially resolved lithium plat-

**Feng:2022:MOB**


**Fagbemi:2020:EMM**


**Fan:2022:ACP**


**Ferrero:2022:RBM**

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


**Garcia:2020:NSS**


**Garcia:2021:ASH**


**Ghosh:2022:SQF**


**Gillard:2022:FGF**


**Gaburro:2020:HOD**

REFERENCES


REFERENCES


Girault:2022:CMC


Galassi:2022:ATI


Garon:2020:MAB


Gumerov:2021:LGF


Geoffroy-Donders:2020:DTO

REFERENCES


Gao:2022:OSS


Gaylo:2022:ELA


Ginzburg:2021:SIB


Geng:2020:CML


Gimbutas:2020:EAF

Gao:2020:STA


Giuliani:2020:MLD


Gross:2022:FPT


Garg:2021:SDC


Guermond:2022:HRT

Garritano:2022:EEA


Guo:2020:IFE


Glaubitz:2021:SHO


Glowinski:2020:CTB


Grosheintz-Laval:2020:WBF

L. Grosheintz-Laval and R. Käppeli. Well-balanced finite volume schemes for nearly steady adiabatic flows. *Journal of Computational Physics*, 423(??):Article 109805, December 15,
REFERENCES


Guillot:2020:PFB


Gunzburger:2022:MCW


Gao:2022:ANN


Guo:2020:HOB


Guo:2022:PCB

REFERENCES

Gao:2022:AGF


Gouasmi:2022:ESS


Golovizin:2022:VLD


Garg:2020:UJF


Ghasemi:2020:CDC

Fatemeh Ghasemi and Jan Nordström. On conservation and dual consistency for summation-by-parts based ap-


Gagliardi:2022:CAM

Guermond:2020:SOI

Giussani:2020:TPV

Guo:2022:LRT

Girfoglio:2021:PGR


REFERENCES


[GSFH22] Dennis Gläser, Martin Schneider, Bernd Flemisch, and Rainer Helmig. Comparison of cell- and vertex-centered finite-volume

appropriate


Gu:2020:PTI


Giuliani:2022:SSG


Gu:2021:SPN


Guo:2022:NFF

Gao:2020:FVE


Gu:2021:SSP


Geneva:2020:MDP


Guo:2021:STD


Ge:2020:IUE

REFERENCES

Gong:2020:AHO

Hoagland:2021:HAA

Hackemack:2021:DGS

Huang:2021:SES

Hyde:2021:OSS
REFERENCES

Hertel:2022:CLM

Haas:2020:TSA

Hernandez:2021:SPN

Huang:2022:MLM
REFERENCES


Heumann:2021:GMW


Holst:2020:ETE


Hepp:2020:MEA


Hassanaly:2022:ASU


Hachem:2021:DRL

REFERENCES


REFERENCES


[HJ22] Johan Helsing and Shidong Jiang. Solving Fredholm second-kind integral equations with singular right-hand sides on


REFERENCES


<table>
<thead>
<tr>
<th>Reference</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
</table>
REFERENCES


[HLA22b] Ziyang Huang, Guang Lin, and Arezoo M. Ardekani. Implementing contact angle boundary conditions for second-


Horne:2021:HAU

Harbrecht:2022:SCS

Hahnel:2020:UDL

Hokpunna:2020:FSD

Haidar:2022:PFV
REFERENCES


Hu:2021:ARH


Han:2020:DFM


Holmes:2021:NPI


Hume:2021:VVM


Holderied:2022:MHE

Florian Holderied and Stefan Possanner. Magneto-hydrodynamic eigenvalue solver for axisymmetric equilibria based on smooth polar splines. *Journal of Computational Physics*, 464(??):??.
REFERENCES


REFERENCES


REFERENCES


REFERENCES


Hao:2021:MMA


Howard:2020:NLM


Hamfeldt:2021:CFD


Howard:2021:CLS


Hall:2021:GGI

Eric J. Hall, Søren Taverniers, Markos A. Katsoulakis, and Daniel M. Tartakovsky. GINNs: Graph-informed neu-

**[Hennink:2021:PBS]**


**[Horstmann:2022:CTS]**


**[Huang:2021:TDL]**


**[He:2020:ERS]**

REFERENCES


Hou:2021:RSS


Huang:2020:LCR


Huang:2022:HO


Hong:2020:MFF


He:2020:DDA


REFERENCES

Ianniello:2020:AME


Idesman:2020:NPS


Iijima:2021:ECF


Inguva:2022:FTM


Isakov:2022:LIC

Victor Isakov, Shuai Lu, and Boxi Xu. A linearised inverse conductivity problem for the Maxwell system at a high frequency. *Journal of Computational Physics*, 455(??):??, April 15, 2022. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-


Jain:2022:ACP


Jaiswal:2022:ESS


Jaiswal:2022:NLB


Jolivet:2021:DRT


Jin:2021:NNS

REFERENCES


[JGM+22] Romain Janodet, Carlos Guillamón, Vincent Moureau, Renaud Mercier, Ghislain Lartigue, Pierre Bénard, Thibaut Ménard, and Alain Berlemont. A massively parallel accurate conservative level set algorithm for simulating turbu-

**Joshaghani:2022:VST**


**Jagannathan:2020:SVM**


**Jeong:2021:IIM**


**Johnson:2021:SOC**

REFERENCES


REFERENCES


Jagtap:2022:PIN


Jain:2020:CDI


Jackson:2020:UEF


Jha:2022:GOP


Jung:2022:SLM


REFERENCES


[Jin:2022:STA]


[Jiang:2021:SFI]


[JWC20]


[Jakobsen:2020:CSS]

Haifeng Ji, Zhifeng Weng, and Qian Zhang. An augmented immersed finite element method for variable coefficient ellip-

Jeon:2022:DDA


Jeong:2022:DWS


Ji:2020:HRB


Jiang:2022:IAC

REFERENCES


Kuzmin:2022:UFE


Kelley:2020:MIG


Keita:2021:MCP


Kumar:2022:SEL


Kolahdouz:2020:IIM

REFERENCES

*Kappeli:2020:OGC*

*Kleanthous:2022:ACP*

*Kolahdouz:2021:SIL*

*Kassen:2022:IBS*
Kasolis:2020:IBM


Keniley:2020:DET


Krath:2021:EPO


Koshkarov:2022:FNI


Kruk:2021:FVM

REFERENCES


Komal Kumari and Diego A. Donzis. Direct numerical simulations of turbulent flows using high-order asynchrony-

**Kuhn:2021:AML**


**Kumari:2021:GNA**


**Kozak:2020:WIL**


**Kuzmin:2020:SFL**


[KG20] Emil Klahn and Holger Grosshans. An accurate and efficient algorithm to model the agglomeration of macroscopic particles. *Journal of Computational Physics*, 407(??):Article 109232,
REFERENCES


Kang:2020:IHD


Kopriva:2022:TFOb


Kolasinski:2020:SMM


Khodkar:2021:DDP

REFERENCES

Kumar:2021:MSI

Krause:2022:MT

Khoromskij:2020:RST

Koch:2020:NCW

Kim:2021:EHR
Kivva:2021:FCT


Kulka:2022:TAC


Kou:2022:IBM


Kaltenbach:2020:IPC


Kuzmin:2020:LDC

REFERENCES


Kuya:2021:HOA


Koga:2022:LDF


Kuya:2022:MWA


Khatri:2020:CEL

REFERENCES


[KKS21a] Mack Kenamond, Dmitri Kuzmin, and Mikhail Shashkov. Intersection-distribution-based remapping between arbitrary

**Kenamond:2021:PPC**


**Kuhl:2021:ACV**


**Kritsuk:2021:HON**


**Kubo:2021:LSB**

Kim:2022:MCM


Kim:2020:DUL


King:2022:HOS


Kou:2022:DDE


Kontolati:2022:SUL

REFERENCES

King:2020:HOD


Kang:2022:FIS


Kumar:2020:FUN


Khanwale:2020:STP


REFERENCES


Kühl:2022:DAM


Koliesnikova:2021:UF


Keaveny:2011:ASK


Kay:2021:PNM


REFERENCES

Karam:2022:HOPa

Kilgour:2022:IBB

Krais:2020:SFA

Kingora:2022:NIF

Koch:2020:MTP
Timo Koch, Martin Schneider, Rainer Helmig, and Patrick Jenny. Modeling tissue perfusion in terms of 1d-3d embedded mixed-dimension coupled problems with distributed sources.
Kulesza:2021:DOA


Karam:2021:LCR


Kucherova:2021:CMP


Kahana:2022:HOC

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Li:2022:DIM

Larios-Cardenas:2022:ECN

Larios-Cardenas:2022:HIS

Laiu:2020:FIS

Li:2020:EHO


REFERENCES


[LFP+21] Karine Laurent, Éric Flauraud, Christophe Preux, Quang Huy Tran, and Christophe Berthon. Design of coupled finite volume schemes minimizing the grid orientation effect in reservoir simulation. *Journal of Computational
REFERENCES


Liu:2020:ENA

[135x681]LFT+20


Li:2021:SMM


Liu:2021:HOC


Lejay:2020:FBP


References


**Lyras:2020:CLS**


**Lu:2022:NSV**


**Lin:2020:DPS**


**Lin:2021:TFI**


REFERENCES

Lin:2021:ABE


Liu:2020:SSP


Liu:2020:MCN


Liu:2021:NWB


Laso:2020:HTP

REFERENCES

Li:2021:DLN


Leng:2022:TTB


Lan:2022:HOM


Lin:2021:ATF


Latimer:2021:SAS

Lu:2020:TSD


Lyu:2022:SMB


Lee:2022:SCA


Li:2022:EIW


Lallemand:2020:LBE

Pierre Lallemand and Li-Shi Luo. Lattice Boltzmann equation with overset method for moving objects in two-
REFERENCES


**Lee:2021:SST**


**Lei:2021:SPG**


**Lin:2021:DDM**


**Liu:2021:HEA**


**Li:2022:CFE**

[LL22] Xujing Li and Lingxiao Li. A conservative finite element solver for the induction equation of resistive MHD: Vector

**Luo:2020:FIH**


**Li:2020:FSF**


**Lu:2022:ARL**


**Leute:2022:ERA**

REFERENCES


Li:2021:CEH


Liu:2020:OSI


Lu:2020:MAM


Liao:2020:SON


Li:2020:SLM

REFERENCES


**Liu:2021:ITM**


**Lu:2021:DIF**


**Lou:2021:PIN**


**Lundquist:2020:EEM**

REFERENCES


Lauren:2021:SPI


Lui:2021:SCS


Lauren:2022:ESW


Liu:2021:EPF


Linders:2020:PRK

Lin:2020:ESS

Li:2020:FVW

Li:2022:PFC

Lee:2020:MMS

Lu:2020:MCS
REFERENCES

Lee:2021:EST


Lischke:2020:WFL


Leer:2022:CEL


Laguna:2020:APW

REFERENCES


Liu:2022:PCB


Laskowski:2022:FOT


Li:2021:HSM


Lindeberg:2021:HOF


Lai:2022:SAI

Ming-Chih Lai and Yunchang Seol. A stable and accurate immersed boundary method for simulating vesicle dynamics via spherical harmonics. *Journal of Computational
Lam:2020:ESA


Li:2020:NSO


Liu:2020:NSS


Lou:2020:EHO

REFERENCES


Lee:2021:CSF


Li:2022:DLC


Lauber:2022:IBS


Li:2020:WLD


Liu:2021:SPO


Li:2020:NCM

REFERENCES


Liu:2022:PPT


Lyu:2021:HVI


Lin:2022:MVR


Lu:2021:EDG


Li:2020:TIG


Li:2020:PMR


Li:2022:NFI


Li:2021:SOL


Liang:2020:CSD


Liu:2020:BFM

REFERENCES

Li:2022:AAS


Li:2022:OSG


Lin:2020:EAM


Lyu:2022:MDM


Liu:2021:NLD


[Li:2022:AIEa]


[Li:2022:AIB]


[Li:2022:DDL]


[Liu:2022:FCS]


[Li:2021:ACF]


Marche:2020:CHD


Messenger:2021:WSP


Marchner:2021:SPM


Moraes:2022:AAD


Meng:2021:SSS


Mosharaf-Dehkordi:2022:FPM


Mittal:2021:MTI


Mattesi:2020:QON


Marciante:2022:HL


Mathews:2022:SMR

Mitusch:2021:HFN


Montanino:2022:FEF


Moura:2022:SHE


Mazzia:2020:VEM


REFERENCES


REFERENCES


REFERENCES

Mehlmann:2021:SID

Maric:2020:USG

Matsunaga:2020:MSM

Milcent:2020:MFA

Moldovan:2021:MEK
REFERENCES


Moldovan:2022:OPI


Mao:2021:DHP


Miyoshi:2020:SNR


Menon:2021:QAK


REFERENCES

2021. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716


REFERENCES


Magnetetta:2022:VFC

Massa:2022:AES

Montecinos:2021:UCH

Monrolin:2021:MST

Munoz-Perez:2020:SGH
Luis F. Muñoz-Pérez and J. E. Macías-Díaz. On the solution of a generalized Higgs boson equation in the de Sitter spacetime through an efficient and Hamiltonian scheme. *Journal of
McGregor:2022:VSS


Mezzadri:2020:SOM


Magiera:2022:MCM


Miller:2022:NNB

REFERENCES


REFERENCES

Manzanero:2020:ESDb

Manzanero:2020:FES

Morita:2022:ABO

Maurya:2020:NHC
REFERENCES


REFERENCES


Baoqing Meng, Junsheng Zeng, Qian Chen, Rui Zhou, and Baolin Tian. Numerical method for compressible gas-particle flow coupling using adaptive parcel refinement and


Napier:2020:UMA


Nath:2020:LDR


Naddei:2021:SME


Nardean:2021:NBN


Nataraian:2022:MEB


Nicholls:2022:HOS


Nishikawa:2020:FAW


Nishikawa:2020:HPS


Nishikawa:2020:LRS

REFERENCES


Nishikawa:2020:RNF


Nishikawa:2021:HPS


Nishikawa:2022:AFV


Nishikawa:2022:FCF


Nagata:2021:CAC

REFERENCES


REFERENCES


REFERENCES

New-Tolley:2020:HCQ

Nasab:2022:TOP

Novikov:2022:SCF

Nishikawa:2020:ECC

Nordstrom:2022:LNA
REFERENCES


REFERENCES


REFERENCES


References

Oliv:2022:TFW


Ohmichi:2021:MFT


Ouyang:2022:HSP


Petrov:2020:PAM


Pakseresh:2021:DCP

Pedram Pakseresht and Sourabh V. Apte. A disturbance corrected point-particle approach for two-way coupled particle-

**Peng:2021:TCP**


**Pan:2020:HOS**


**Pantokratoras:2020:CPC**


**Park:2022:NSM**


Silvano Pitassi, Riccardo Ghiloni, Francesco Trevisan, and Ruben Specogna. The role of the dual grid in low-order compatible numerical schemes on general meshes. *Journal


Gang Pang, Songsong Ji, and Xavier Antoine. Accurate absorbing boundary conditions for two-dimensional peridynam-

**Pulliam:2020:IEP**


**Pant:2021:TPM**


**Piao:2020:ETT**


**Pan:2022:MPB**

REFERENCES


REFERENCES

Persson:2022:DGM

Piotrowski:2022:SRP

Padrino:2020:CAS

Perot:2020:FSM

Petropavlovsky:2022:TDS

[PTT22] Petropavlovsky:2022:TDS
**REFERENCES**


[PZNK22] Michael Penwarden, Shandian Zhe, Akil Narayan, and Robert M. Kirby. Multifidelity modeling for Physics-
REFERENCES


Pan:2020:HOA


Qin:2020:DNS


Qin:2021:RGC


Qu:2022:LTD


Qin:2020:TPM

Zhipeng Qin, Soheil Esmaeilzadeh, Amir Riaz, and Hamdi A. Tchelepi. Two-phase multiscale numerical framework for modeling thin films on curved solid surfaces in porous media. Jour-
Qadeer:2021:SFE


Qiu:2020:DDM


Qin:2022:PFM


Qian:2022:FDR


Qian:2022:IUS

[JQGW22] Jianzhen Qian, Zupeng Jia, Fang Qing, and Pei Wang. Interface-unaware sub-scale dynamics closure model for mul-

**Qin:2021:IIL**


**Qiu:2021:TOP**


**Qian:2021:LTT**


**Qu:2020:SSS**

REFERENCES


Riaud:2021:DMR


Reynolds-Barredo:2020:NES


Ricketson:2020:ECA


Roth:2020:SAD


Rydquist:2020:OSS


[RFZ22] Yiming Ren, Hongsong Feng, and Shan Zhao. A FFT accelerated high order finite difference method for elliptic boundary value problems over irregular domains. *Journal of Computational Physics*, 448(??):Article 110762, January 1, 2022. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716...
REFERENCES


REFERENCES


Reuber:2020:ABI


Reissmann:2021:AGE


Rodriguez:2022:PTR


Rixner:2021:PGM

Reutzsch:2020:CMD

Rozema:2020:NSL

Resseguier:2022:RTE

Ramezanian:2020:OPS

Rangarajan:2020:ABA
REFERENCES


REFERENCES


Rodriguez:2021:GLC


Rettinger:2022:EFW


Rueda-Ramirez:2021:SCD


Rueda-Ramirez:2021:ESN

Rivero-Rodriguez:2021:ACB


Ramani:2020:MMR


Rapaka:2020:EPS


Ray:2020:RBC


Rocha:2020:MMM


REFERENCES


Remmerswaal:2022:PIR


Ryan:2022:FVA


Renard:2021:LSA


Reynaud:2022:CFH

REFERENCES


Martín Saravia. A finite volume formulation for magnetostatics of discontinuous media within a multi-region


REFERENCES


REFERENCES

Stanier:2022:CIP

Strafella:2022:LFS

Sturdevant:2022:EFG

Scapin:2020:VFM

Shukla:2020:WAD
REFERENCES


Stanier:2020:CPH


Chen:2022:ADP


Schroeder:2022:LDF


Stoyanovskaya:2021:FMS

REFERENCES


REFERENCES


Sellountos:2022:FMB


Semenikhin:2021:IAN


Skene:2021:PTA


Sevilla:2021:IHM


Solan-Fustero:2022:PBR

REFERENCES


REFERENCES


[Sha21] DanHua ShangGuan. A general purpose strategy for realizing the zero-variance importance sampling and calculating the unknown integration constant. *Journal of Computational Physics*, 436(?):Article 110311, July 1, 2021. CO-


Shima:2021:PSP


Salloum:2020:PES


Schneider:2020:FOC


Salloum:2022:AEC


Schneider:2022:FOC

Florian Schneider and Tobias Leibner. First-order continuous- and discontinuous-Galerkin moment models for a linear kinetic
REFERENCES


Shiroto:2022:MEC


Sirignano:2020:DDL


Song:2020:NEP


Singh:2022:NTD


Singh:2022:DFV

Saez-Mischlich:2022:PHO


Saberi:2022:RAV


Song:2022:SPL


Shiroto:2022:CME


Svard:2021:CES


St-Onge:2022:NAR


Simonis:2022:TLE


Sahu:2020:ALE


Santelli:2021:FDS


Sousedik:2022:SGM


Shen:2020:CSI


Schwander:2021:COS


Shahmardi:2021:FEH


Shahane:2021:HOA

REFERENCES


REFERENCES

---

Scillitoe:2021:UQD


Schlachter:2020:WEN


Skaras:2021:STS


Sengupta:2020:GSA


Shi:2020:APU

REFERENCES


Sundaram:2022:NOH


Schneider:2022:EKI


Sun:2022:MSD


Smyl:2021:LCN


Shou:2021:MAE


Stiller:2020:SDC


Schoeller:2021:MSP


Svard:2021:ESB


Svard:2022:LES


Schoutrop:2021:MTP


Shen:2022:RCC


Sato:2021:CDO


Sun:2020:SPD


Sheng:2021:PPF

REFERENCES


REFERENCES


REFERENCES

Tregan:2020:CID


Tissot:2020:OCS


Tang:2022:FSS


Trask:2020:CCS


Tartakovsky:2021:PIM


REFERENCES


REFERENCES


Tang:2020:RAT


Toosi:2021:GIE


Touboul:2020:TDS


Tang:2020:DLB


Li:2022:TAP

Tlupova:2022:DDS


Till:2020:FAC


Temizer:2020:NBN


Thirumalaisamy:2021:CVP


Towers:2020:SAL


[Tu:2022:LSS] Yihui Tu, Qiyuan Pang, Haizhao Yang, and Zhenli Xu. Linear-scaling selected inversion based on hierarchical interpolative factorization for self Green’s function for modified

**Tano:2021:SNA**


**Tranquilli:2022:DVS**


**Todorova:2020:QAC**


**Thari:2022:ATB**


**Treleaven:2020:APM**

N. C. W. Treleaven, M. Staufer, A. Spencer, A. Garmory, and G. J. Page. Application of the PODFS method to inlet tur-

**Torres-Sanchez:2020:ATF**


**Toro:2020:LDC**


**Taverniers:2020:EDM**


**Takhirov:2022:ENF**


**Tan:2022:GCL**

Zengqiang Tan and Huazhong Tang. A general class of linear unconditionally energy stable schemes for the gradient flows.


Igor Tominec, Pierre-Frédéric Villard, Elisabeth Larsson, Víctor Bayona, and Nicola Cacciani. An unfitted radial

**Tong:2020:HOA**


**Tang:2022:ADD**


**Tan:2022:EPP**


**Tu:2022:NAS**

Tu:2022:MMM


Tong:2021:SNN


Teng:2020:CSC


Tang:2021:SIF


Tian:2020:_CMP


Ubeda:2020:AGR


Upperman:2022:PPE


Vasilyeva:2021:MDR


Villamizar:2022:HOL


Vidal-Codina:2021:NHD

REFERENCES

Velasco:2020:KFO


vandenBos:2020:ASB


Volmer:2020:IIG


Vevek:2021:DDT

Vevek:2021:EAC


Vaughn:2021:TAG


vanHooft:2022:FOA


Vorozhtsov:2022:HOS


Velechovsky:2022:MMS


REFERENCES


REFERENCES


REFERENCES

Wang:2022:CCL


Wang:2022:DIM


Wang:2020:IBM


Wolf:2022:EAD


Wang:2020:DLB

[Lai Wang, Matthias K. Gobbert, and Meilin Yu. A dynamically load-balanced parallel \( p \)-adaptive implicit high-


[Wang:2021:HOE]


[Wang:2020:ASB]


[Wang:2020:PAM]


[Wu:2021:ESD]


Walters:2022:CIF


Wang:2021:GPG


Wan:2020:CRO


Wang:2020:PDF


WWFM22

REFERENCES


REFERENCES


REFERENCES

Wang:2021:DFE

Wang:2022:WWP

Wen:2020:DLA

Wang:2020:MFM

Worku:2021:SA


REFERENCES


[XC20] Dexuan Xie and Zhen Chao. A finite element iterative solver for a PNP ion channel model with Neumann boundary condition and membrane surface charge. *Journal of Computational Physics*, 423(??):Article 109915, December 15,
REFERENCES


Xufeng Xiao, Xinlong Feng, and Zhilin Li. The local tangential lifting method for moving interface problems on surfaces with applications. *Journal of Computational Physics*, 431(??):Article 110146, April 15, 2021. CO-
REFERENCES

Xiong:2022:SMO  

Xie:2020:SOS  

Xing:2022:HMA  

Xu:2021:LCR  

Xu:2021:MEF  
REFERENCES

Xie:2022:HFS

Xu:2022:PFM

Xiao:2021:FRK

Xie:2022:EFE

Xie:2020:CSS
REFERENCES


[XLS22] Zhihua Xie, Pengzhi Lin, and Thorsten Stoesser. A conservative and consistent implicit Cartesian cut-cell method


REFERENCES

521

Xia:2021:FDA


Xu:2020:LSI


Xiong:2022:HOA


Xie:2020:FOK


Xu:2020:HDR


Hao Xu, Dongxiao Zhang, and Nanzhe Wang. Deep-learning based discovery of partial differential equations in integral...


REFERENCES


[YFLL21] Jinyong Ying, Ronghong Fan, Jiao Li, and Benzhuo Lu. A new block preconditioner and improved finite element solver
REFERENCES

526


Yatsuyanagi:2022:DFM


Yang:2021:MLT


Yang:2021:CFE


Yang:2021:FEI

REFERENCES


REFERENCES


**You:2020:DRM**


**Yang:2022:NAS**


**Ye:2020:MRI**


**Yang:2021:SPH**


REFERENCES


[Yang:2021:RSI]


[Yushu:2020:IBM]


[Yang:2021:HAM]


[Yang:2021:BPB]

[YMY+21] Xi-Yuan Yin, Olivier Mercier, Badal Yadav, Kai Schneider, and Jean-Christophe Nave. A characteristic mapping method for the two-dimensional incompressible Euler equations. *Journal of Computational Physics*, 424(??):Article 109781, January 1,


REFERENCES


Rei Yamashita, Lukas Wutschitz, and Nikolaos Nikiforakis. A full-field simulation methodology for sonic boom modeling on adaptive Cartesian cut-cell meshes. *Journal of Computational Physics*, 408(??):Article 109271, May 1, 2020. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
REFERENCES


Zhao:2020:RTM


Zapata:2021:CLS


Zeifang:2021:DDH


Zhou:2021:AST

Zhao:2021:IIU


Zang:2020:WAN


Zhang:2022:FBN


Zhu:2022:CEL


Zhu:2022:ELS

REFERENCES


[ZCQ20b] Zhuang Zhao, Yibing Chen, and Jianxian Qiu. A hybrid Hermite WENO scheme for hyperbolic conservation laws. *Journal
REFERENCES

Zhao:2021:EBC

Zhang:2020:DDF

Zeng:2022:DNN

Zinchenko:2021:AFH
REFERENCES


REFERENCES


REFERENCES

Zhang:2020:MRB


Zhao:2020:BTI


Zhao:2021:SOD


Zhang:2022:MSM


Zhang:2021:LRB


[ZJ22] Yaoxin Zhang and Yafei Jia. Multi-point momentum interpolation correction on collocated meshes. *Journal of Computational Physics*, 449(??):Article 110783, January 15,
Zhao:2022:CHO


Zhang:2020:SSI


Zhu:2020:PFM


Zhang:2021:CHO


Zhang:2021:TOS

Zhang, Chao; Li, Qibing. A third-order subcell finite volume gas-kinetic scheme for the Euler and Navier–


[ZLC+20] He Zhong, Hui Liu, Tao Cui, Zhangxin Chen, Lihua Shen, Bo Yang, Ruijian He, and Xiaohu Guo. Numerical simulations of polymer flooding process in porous media on

**Zhang:2022:SEP**


**Zhao:2021:ATL**


**Zhang:2022:TSF**


**Zhou:2022:TSD**

REFERENCES


Zhang:2020:NCM


Zamolo:2020:AGU


Zhang:2022:MKE


Zygiridis:2022:EOF

Zhu:2021:GSI


Zhao:2020:HWS


Zhou:2022:SMF


Zhu:2020:HOR


Zhou:2021:SHO


REFERENCES


[ZSsC+22] Wenqiang Zhang, Armin Shahmardi, Kwing so Choi, Outi Tamminisola, Luca Brandt, and Xuerui Mao. A phase-field method for three-phase flows with icing. *Journal of Computational Physics*, 458(??):??, June 1, 2022. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
REFERENCES

Zheng:2021:NIM


Zhang:2020:SMH


Zhang:2022:GCF


Zucatti:2021:CPB


Zhai:2021:HOO

REFERENCES


**Zhang:2022:CFE**

*Zhang:2022:CFE*


**Zaleski:2020:SIN**

*Zaleski:2020:SIN*


**Zhang:2022:HOI**

*Zhang:2022:HOI*


**Zeng:2022:PCC**

*Zeng:2022:PCC*

Zhuan:2022:BEB


Zan:2021:FPP


Zhang:2022:RHS


Zhang:2020:LSM


Zhang:2020:DNI

Zou:2020:PPL


Zhang:2020:WGF


Zhang:2020:RES


Zhu:2022:DRM


Zheng:2020:PIS

Zhan:2020:URS


Zhao:2022:BEM


Zhu:2020:RER


Zheng:2020:MCM


Zhou:2021:TUA

REFERENCES


Zhao:2020:CDG


Zhao:2020:SOB


Zeng:2022:ADN