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## Title word cross-reference

3 [Hou09].  $l_1$  [NN13]. *qd* [Par95]. *R* [Sha07].  
**-functions** [Sha07].  
**/nuclear** [NN13].  
**accelerated** [AAD<sup>+</sup>16]. **accuracy** [BL07].  
**Accurate** [DDHK08]. **acoustic** [CWGLS12].  
**Acta** [Hig96]. **Adaptive** [EEHJ95, Ode18].  
**adaptively** [LGB11]. **Adaptivity** [BHR09].  
**Adjoint** [GS02]. **algebra**  
[AAD<sup>+</sup>16, BCD<sup>+</sup>14, Chu08, DHvdV93,  
DDHK08, Eld06, KV17]. **Algebraic**  
[XZ17, Mär92, WS11]. **Algorithms**  
[Noc92, Pow98, BCD<sup>+</sup>14, CM94, Chu08,  
KV17, MS06, NN13, Par95, PFM19, QMV17,  
Set96, Woh11]. **analyses** [Cuc16]. **Analysis**  
[Ell94, GS02, AM94, Bru04, Cha01, CST00,  
HS19, Le 05, NSZ17, Slo92, Sma97, Stu94,  
Wan10, dVBSV14, vDKS93]. **analytic**  
[Hou09, Sha07]. **ANU**  
[Ano92b, Ano92a, Ano93b, Ano93a, Ano94b,  
Ano94a, Ano95b, Ano95a, Ano96b, Ano96a,  
Ano97b, Ano97a, Ano98b, Ano98a, Ano99b,  
Ano99a, Ano09b, Ano09a, Ano10b, Ano10a,  
Ano11b, Ano11a, Ano12b, Ano12a, Ano13b,  
Ano13a, Ano14b, Ano14a, Ano15b, Ano15a,  
Ano16b, Ano16a, Ano17b, Ano17a, Ano18b,  
Ano18a, Ano19b, Ano19a]. **application**  
[CST00]. **applications**  
[AFW06, Flo15, Gau96, QMV17, Set96].  
**approach** [BBO03, BR01, Hou09].  
**approximate** [GL94, GL95].

**Approximation** [BIV95, CD15, Pin99, PFM19, Bof10, DeV98, Tem08, Wat98].  
**approximations** [Tad03]. **arithmetic** [MS06, Rum10]. **art** [Coo97]. **Aspects** [El194, AM94, EE01, Tem07]. **assimilation** [Rei19]. **Asymptotic** [ES08, CWGLS12].  
**atmospheric** [Cul07]. **Atomistic** [LO13].  
**Atomistic-to-continuum** [LO13].  
**Automatic** [Hen96, Gri03]. **averages** [BL07].

**Back** [Ano92a, Ano93a, Ano94a, Ano95a, Ano96a, Ano97a, Ano98a, Ano99a, Ano10a, Ano11a, Ano12a, Ano13a, Ano14a, Ano15a, Ano16a, Ano17a, Ano18a, Ano19a].  
**barycentric** [Flo15]. **based** [Fre03]. **bases** [Ban96]. **basis** [Buh00, FF15]. **Bayesian** [Stu10]. **behind** [Coo97]. **bifurcation** [CST00]. **Binary** [FZ10]. **Blow** [Hou09].  
**Blow-up** [Hou09]. **Boltzmann** [NS95].  
**Boundary** [Hou95, CWGLS12, Hag99, Pes02, Slo92].  
**bounds** [BCD<sup>+</sup>14].

**calculation** [Bjö04]. **Calculations** [Pow98].  
**calculus** [AFW06, Hac14]. **Cambridge** [Hig96]. **cancer** [DSW12]. **cardiovascular** [QMV17]. **Carlo** [BRSS18, Caf98, DKS13, Gil15]. **challenges** [Cha01, CT99]. **chemistry** [Le 05]. **Choice** [Wat98]. **circulation** [Hig06]. **clinical** [QMV17]. **cloud** [Car14]. **combinatorial** [PFM19]. **Communication** [BCD<sup>+</sup>14].  
**Complete** [Neu04]. **complex** [GGMR09].  
**Complexity** [Sma97]. **composite** [GM94].  
**Computation** [DDE05, Tre99, FMT16, Gau96, Lus96, Mis02, Tad07].  
**Computational** [ER03, Le 05, Rin97, AM94, CT99, Ede00, Hip02, Hou09, JMS11, SNCH04]. **computed** [BL07]. **Computing** [HAM10, AAD<sup>+</sup>16, DvdS12, PFM19].  
**condition** [Cuc16]. **conditions** [Hag99].  
**conjugate** [MS06]. **conservation** [MS07, Tad03]. **consistent** [Woh11].  
**Constrained** [Wri92]. **constraint** [Neu04].  
**Constructing** [Coo97]. **contact** [HS19, Woh11]. **Continuation** [AG93, Li97].  
**Continuous** [Coc03, CP16, Neu04].  
**continuum** [LO13]. **control** [BR01].  
**controllability** [GL94, GL95]. **controlled** [LM14]. **convection** [Sty05].  
**convection-diffusion** [Sty05]. **convergence** [Yse93]. **coordinates** [Flo15]. **coupling** [LO13]. **Cover** [Ano92b, Ano92a, Ano93b, Ano93a, Ano94b, Ano94a, Ano95b, Ano95a, Ano96b, Ano96a, Ano97b, Ano97a, Ano98b, Ano98a, Ano99b, Ano99a, Ano09b, Ano09a, Ano10b, Ano10a, Ano11b, Ano11a, Ano12b, Ano12a, Ano13b, Ano13a, Ano14b, Ano14a, Ano15b, Ano15a, Ano16b, Ano16a, Ano17b, Ano17a, Ano18b, Ano18a, Ano19b, Ano19a].  
**crystalline** [Lus96]. **curvature** [Coo97].  
**cuisine** [LCBM12]. **current** [Cha01].  
**curvature** [DDE05].

**D** [Hou09]. **Data** [Heg01, Rei19, AMÖS19, Car14, Eld06, GWZ14, Wat98]. **data-driven** [AMÖS19]. **decomposition** [CM94]. **deep** [DSW12]. **denoising** [LCBM12]. **density** [LLY19]. **dependence** [Coc03]. **dependent** [KL98, LM14, Tad03]. **Derivative** [LMW19]. **Derivative-free** [LMW19]. **deterministic** [Pir12]. **devices** [Rin97]. **difference** [Tad03]. **different** [Kre92]. **Differential** [EEHJ95, BMZG09, Bru04, DDE05, FS94, GWZ14, KL98, LS16, Mär92, MN96, PJY97, Pla99]. **differentiation** [Gri03]. **diffusion** [Sty05]. **dimensional** [CD15, DKS13, GGMR09, SG11].  
**dimensions** [GR97]. **Direct** [Pow98, DRSL16, GGMR09]. **Discrete** [MW01]. **discretization** [CMKO11, Woh11]. **discretizations** [SG11]. **dissipation** [LM14]. **distributed** [GL94, GL95].  
**Domain** [CM94]. **domains** [GGMR09].  
**driven** [AMÖS19]. **Duality** [GS02].  
**dynamical** [Chu08, Stu94]. **dynamics**

[BL07, LS16, Mis02].

**efficient** [DDHK08, Mis02]. **Eigenvalue** [LO96, Bof10, CG02, GT17, Sor02]. **eigenvalues** [Ips98]. **elastic** [Cia01]. **electromagnetism** [Hip02]. **electrostatic** [GM94]. **element** [AFW06, BBO03, Ban96, BR01, Bof10, Cha01, DE13, For93, GWZ14]. **elements** [Hip02]. **Entropy** [Tad03]. **Equation** [NS95, GR97]. **Equations** [EEHJ95, BMZG09, Bru04, Dah97, DDE05, DP14, FS94, For93, GGMR09, GWZ14, Gut97, Hou09, JMS11, Kel18, KL98, Kur18, LS16, Mär92, MN96, PJY97, Pla99]. **Errata** [Ano95c]. **Error** [GS02, Slo92, BR01, Coc03]. **estimation** [BR01, Can06, Coc03]. **Euler** [Hou09]. **evaluation** [DDHK08, GM94]. **Exact** [GL94, GL95]. **Exponential** [HO10]. **expression** [DDHK08]. **exterior** [AFW06].

**Fast** [GGMR09, GR97]. **fields** [GM94]. **Filters** [Tad07]. **Finite** [AFW06, Bof10, DE13, For93, Hip02, Kur18, MS07, BBO03, Ban96, BR01, Cha01, GWZ14, LGB11, MS06]. **Finite-volume** [Kur18]. **first** [NN13]. **first-order** [NN13]. **fitting** [Wat98]. **floating** [Rum10]. **floating-point** [Rum10]. **flow** [DDE05]. **flows** [Cul07]. **fluid** [CST00]. **following** [AG93]. **Formalization** [AM94]. **formulae** [Coo97]. **Free** [Hou95, LMW19]. **frequency** [CWGLS12, ER03]. **Front** [Ano92b, Ano93b, Ano94b, Ano95b, Ano96b, Ano97b, Ano98b, Ano99b, Ano09b, Ano10b, Ano11b, Ano12b, Ano13b, Ano14b, Ano15b, Ano16b, Ano17b, Ano18b, Ano19b]. **function** [Wat98]. **functional** [BMZG09, Bru04, LLY19]. **functions** [Buh00, FF15, HAM10, Sha07, Tem07]. **futures** [Pir12].

**General** [But06]. **Generalized** [Flo15, BBO03]. **generation** [Hen96]. **Geometric**

[BRSS18, EE01, HLW03, DDE05, DL02]. **geometry** [Ede00, Sab94, Sha07, WS11]. **Gibbs** [Tad07]. **global** [Neu04]. **gradient** [MS06]. **Greedy** [Tem08]. **grid** [Hen96]. **grids** [BHR09, BG04]. **group** [IMKNZ00].

**Hamiltonian** [BRSS18, SS92]. **heart** [SNCH04]. **hemivariational** [HS19]. **heterogeneous** [AWEVE12]. **Hierarchical** [Ban96]. **High** [DKS13, DvdS12, CWGLS12, CD15, ER03, SG11]. **High-dimensional** [DKS13, CD15, SG11]. **high-frequency** [CWGLS12]. **High-performance** [DvdS12]. **highly** [PJY97]. **homogenization** [ES08]. **homological** [AFW06]. **homotopy** [Li97]. **hyperbolic** [MS07]. **hyperthermia** [DSW12].

**illustrated** [HLW03]. **image** [AM94, LCBM12, TO05]. **imaging** [CP16]. **immersed** [Pes02]. **incompressible** [Hou09]. **inequalities** [Can06, HS19]. **initial** [vDKS93]. **input** [GWZ14]. **integer** [BKL<sup>+</sup>13]. **integral** [Bru04, CWGLS12, GGMR09, Slo92]. **integration** [DKS13, HLW03]. **integrators** [BRSS18, HO10, MW01, SS92]. **integro** [Bru04]. **integro-differential** [Bru04]. **interfaces** [Set96]. **Interior** [NT08, Wri92]. **Interior-point** [NT08]. **Introduction** [EEHJ95, CP16, Pla99]. **Inverse** [Stu10, AMÖS19, BB18, CG02]. **isogeometric** [dVBSV14]. **issue** [Ano92b, Ano92a, Ano93b, Ano93a, Ano94b, Ano94a, Ano95b, Ano95a, Ano96b, Ano96a, Ano97b, Ano97a, Ano98b, Ano98a, Ano99b, Ano99a, Ano09b, Ano09a]. **Iterative** [FGN92, MN96].

**Kepler** [Wan10]. **Kernel** [SW06]. **kinematics** [WS11]. **kinetic** [DP14]. **Kohn** [LLY19]. **Krylov** [EE01, Fre03].

**Lanczos** [Gut97, MS06]. **Lanczos-type**

[Gut97]. **Laplace** [GR97]. **large** [AAD<sup>+</sup>16, GOT05, Sor02]. **large-scale** [AAD<sup>+</sup>16, GOT05]. **laws** [MS07, Tad03]. **learning** [SW06]. **least** [Bjö04]. **level** [Set96, TO05]. **Lie** [IMKNZ00]. **Lie-group** [IMKNZ00]. **Linear** [AAD<sup>+</sup>16, Chu08, FGN92, vDKS93, BCD<sup>+</sup>14, Bjö04, But06, DRSL16, DHvdV93, DDHK08, Eld06, Gut97, KV17, MN96]. **linearly** [Cia01]. **lower** [BCD<sup>+</sup>14].

**machine** [SW06]. **machines** [FZ10]. **materials** [GM94]. **Mathematical** [Cia01, DSW12, JMS11, QMV17, dVBSV14, Gri03]. **matrix** [ER05, HAM10, Ips98]. **matter** [Ano92b, Ano92a, Ano93b, Ano93a, Ano94b, Ano94a, Ano95b, Ano95a, Ano96b, Ano96a, Ano97b, Ano97a, Ano98b, Ano98a, Ano99b, Ano99a, Ano09b, Ano09a, Ano10b, Ano10a, Ano11b, Ano11a, Ano12b, Ano12a, Ano13b, Ano13a, Ano14b, Ano14a, Ano15b, Ano15a, Ano16b, Ano16a, Ano17b, Ano17a, Ano18b, Ano18a, Ano19b, Ano19a]. **mean** [DDE05]. **measure** [FMT16]. **measure-valued** [FMT16]. **mechanics** [CST00, HS19, MW01]. **meshes** [Ede00]. **meshless** [BBO03, SW06]. **method** [AWEVE12, Ban96, BRSS18, HLW03, Pes02, GR97]. **Methods** [EEHJ95, GS02, NS95, Wri92, BBO03, BR01, BB18, But06, Caf98, CWGLS12, Coc03, Dah97, DRSL16, DP14, DE13, EE01, FS94, Fre03, Gil15, GOT05, GWZ14, IMKNZ00, JMS11, Kel18, LMW19, LM14, LGB11, LS16, Li97, LLY19, Mär92, MQ02, MS07, Nat99, NT08, Pir12, Pla99, Rin97, Rum10, SW06, Set96, Slo92, Sor02, TO05, XZ17, Yse93, dVBSV14]. **microstructure** [Lus96]. **minimization** [NN13]. **mining** [Eld06, Heg01]. **Mixed** [BKL<sup>+</sup>13]. **Mixed-integer** [BKL<sup>+</sup>13]. **MLP** [Pin99]. **Model** [Fre03, Pin99]. **Modelling** [Cul07, Cia01, DL02, Hig06, LGB11, Ode18, QMV17, SNCH04]. **models** [AMÖS19]. **Modern** [BB18, Can06]. **Molecular** [BL07, LS16]. **mollifiers** [Tad07]. **Monte** [BRSS18, Caf98, DKS13, Gil15]. **motion** [ÖVBS17]. **moving** [BHR09]. **multicore** [AAD<sup>+</sup>16]. **multigrid** [XZ17, Yse93]. **Multilevel** [Gil15]. **Multipole** [GR97]. **Multiscale** [SNCH04, AWEVE12, Dah97, Ode18]. **Multivariate** [dB93, Li97].

**Navier** [For93, Hou09]. **Networks** [Ell94, Pin99]. **Neural** [Ell94, Pin99]. **Newton** [Wan10]. **no** [Hou09]. **Nonlinear** [DeV98, BKL<sup>+</sup>13, GOT05, GT17, Kel18, NSZ17, Tad03]. **nonsymmetric** [Gut97]. **norm** [NN13]. **norms** [Wat98]. **nuclear** [NN13]. **numbers** [Cuc16]. **Numerica** [Hig96]. **Numerical** [BGL05, CWGLS12, CT99, DP14, Eld06, Ell94, GOT05, Hac14, HS19, Hig06, Hou95, Kel18, LM14, Li97, LLY19, Mär92, Nat99, NSZ17, PJY97, Sab94, Sor02, Stu94, Tem07, WS11, BCD<sup>+</sup>14, BMZG09, Bru04, CST00, DHvdV93, ES08, GM94, Hag99, HLW03, KV17, Le 05, Pla99, QMV17, Sma97, Wan10, Woh11, vDKS93]. **Numerical-asymptotic** [CWGLS12]. **numerically** [BL07].

**ocean** [Hig06]. **Old** [Yse93]. **operator** [Dah97]. **optimal** [BCD<sup>+</sup>14, BR01]. **Optimization** [LO96, Noc92, Pow98, Tod01, Wri92, BKL<sup>+</sup>13, CP16, GOT05, LMW19, NT08, Neu04]. **oracle** [Can06]. **order** [NN13]. **ordinary** [PJY97]. **Orthogonal** [Gau96]. **oscillatory** [PJY97]. **outlook** [DvdS12]. **overview** [SS92].

**Padé** [BIV95]. **Parallel** [DHvdV93]. **parameter** [GL94, GL95]. **parametric** [CD15, SG11]. **Partial** [LS16, DDE05, FS94, GWZ14]. **Particle** [NS95]. **path** [AG93]. **pattern** [Car14]. **PDEs** [CD15, DE13, FF15, GS02, NSZ17, SG11]. **performance** [DvdS12]. **perspective**

[Le 05, Rei19, Stu10]. **perturbation** [Ips98]. **phenomenon** [Tad07]. **piecewise** [dB93]. **planning** [DSW12]. **point** [BGL05, Car14, NT08, Rum10]. **polynomial** [Li97]. **polynomials** [Gau96, dB93]. **posteriori** [BR01, GS02]. **Postprocessing** [GS02]. **precision** [MS06]. **Preconditioning** [Wat15]. **predictive** [Ode18]. **Preface** [Ano92c]. **preserving** [CMKO11]. **Press** [Hig96]. **Pricing** [Pir12]. **Probabilistic** [Cuc16]. **problem** [GT17]. **Problems** [Hou95, Kre92, AMÖS19, BB18, BGL05, Bjö04, Bof10, CG02, CST00, SS92, Sor02, Stu10, Sty05, Tad03, Woh11, vDKS93]. **Programming** [BT95]. **proofs** [Yse93]. **propagating** [Set96]. **propagation** [ER03]. **pseudospectra** [Tre99]. **pseudospectral** [FS94].

**Quadratic** [BT95]. **quantum** [Rin97]. **quasi** [Caf98, DKS13]. **quasi-Monte** [Caf98, DKS13].

**Radial** [Buh00, FF15]. **Radiation** [Hag99]. **Random** [ER05, GWZ14]. **Randomized** [KV17]. **recognition** [Car14]. **reduction** [Fre03]. **refined** [LGB11]. **regional** [DSW12]. **regularization** [BB18]. **related** [Tad03]. **Relative** [Ips98]. **relativity** [CT99]. **results** [Cha01, Ips98, Rum10]. **retarded** [BMZG09]. **Review** [Hig96, FS94]. **Rigorous** [Rum10, Mis02].

**saddle** [BGL05]. **satisfaction** [Neu04]. **scale** [AAD<sup>+</sup>16, GOT05, LM14]. **scales** [Kre92]. **scattering** [CWGLS12]. **schemes** [DL02, Kur18, Woh11]. **Schrödinger** [JMS11, Rei19]. **science** [CT99, Coo97, TO05]. **scientific** [PFM19]. **Search** [Pow98, Neu04]. **Secrets** [LCBM12]. **Section** [Ano95c]. **Semi** [Sha07]. **Semi-analytic** [Sha07]. **semiclassical** [JMS11, Rin97]. **semiconductor** [Rin97].

**Semidefinite** [Tod01]. **separation** [FZ10]. **Sequential** [BT95]. **set** [Set96, TO05]. **shallow** [Kur18]. **shallow-water** [Kur18]. **Sham** [LLY19]. **shells** [Cha01, Cia01]. **shocks** [LM14]. **simulation** [Hag99]. **singular** [Ips98]. **small** [LM14]. **small-scale** [LM14]. **software** [AAD<sup>+</sup>16]. **Solution** [FGN92, BMZG09, BGL05, For93, Li97, MN96, PJY97, vDKS93]. **Solutions** [Hou95, FMT16]. **solvers** [GGMR09, Gut97]. **Solving** [AMÖS19, FF15, FS94]. **Some** [Cha01]. **Sparse** [BG04, SG11, DRSL16]. **special** [Tem07]. **Splitting** [MQ02]. **squares** [Bjö04]. **Stability** [KL98, Tad03, vDKS93]. **state** [Sty05]. **statistical** [Can06]. **Status** [DvdS12]. **Steady** [Sty05]. **Steady-state** [Sty05]. **Stochastic** [GWZ14, LS16, Pla99, SG11]. **Stokes** [For93, Hou09]. **Störmer** [HLW03]. **strongly** [NSZ17]. **structure** [CMKO11, ÖVBS17]. **structure-preserving** [CMKO11]. **Structured** [CG02]. **Subdivision** [DL02]. **subspace** [EE01]. **subspaces** [Fre03]. **support** [FZ10]. **surface** [DE13]. **surfaces** [Sab94]. **Survey** [BBO03, DRSL16, ÖVBS17]. **Symplectic** [SS92]. **system** [QMV17]. **Systems** [FGN92, Chu08, DRSL16, DvdS12, GL94, GL95, Gut97, Li97, MN96, Stu94].

**Taste** [BIV95]. **techniques** [AFW06, Heg01, Mis02, SW06]. **tensor** [Hac14, SG11]. **Theory** [Noc92, Set96, ER05, EE01, LLY19, Pin99, Sma97, Tad03]. **therapy** [DSW12]. **three** [GR97, GGMR09]. **three-dimensional** [GGMR09]. **time** [Kre92, KL98, Tad03]. **time-dependent** [KL98, Tad03]. **tomography** [Nat99]. **Topics** [CMKO11]. **Topological** [Car14, Mis02]. **Total** [TO05]. **training** [FZ10]. **transport** [Rin97]. **trends** [BMZG09]. **Triangulations** [Ede00]. **Tsunami** [LGB11]. **type** [Bru04, Gut97].

**Unconstrained** [Noc92]. **unified** [BBO03, Hou09]. **University** [Hig96]. **using** [AMÖS19, Rum10].

**value** [vDKS93]. **valued** [FMT16]. **values** [Ips98]. **variation** [TO05]. **variational** [MW01, dVBSV14]. **Variationally** [Woh11]. **vector** [FZ10]. **Verification** [Rum10]. **Verlet** [HLW03]. **version** [GR97]. **via** [Can06]. **view** [Gri03]. **viscosity** [Coc03]. **Volterra** [Bru04]. **volume** [Ano92b, Ano92a, Ano93b, Ano93a, Ano94b, Ano94a, Ano95b, Ano95a, Ano96b, Ano96a, Ano97b, Ano97a, Ano98b, Ano98a, Ano99b, Ano99a, Ano09b, Ano09a, Ano10b, Ano10a, Ano11b, Ano11a, Ano12b, Ano12a, Ano13b, Ano13a, Ano14b, Ano14a, Ano15b, Ano15a, Ano16b, Ano16a, Ano17b, Ano17a, Ano18b, Ano18a, Ano19b, Ano19a, Kur18, LGB11, MS07].

**water** [Kur18]. **wave** [ER03]. **Wavelet** [Dah97]. **Wavelets** [DL92]. **waves** [Hag99]. **way** [DKS13].

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