

# A Complete Bibliography of Publications in *Journal of Computational Physics*: 1960–1969

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## Title word cross-reference

2 [BR69]. 3 [BR69].  $K_p(x)$  [Aha69].  $S$  [Car69a].

-State [Car69a].

**accuracy** [HS68b, Lat69]. **acetic** [MB69]. **acid** [MB69]. **acoustic** [HJ69, ZD67]. **adapted** [HS68a]. **advection** [Cro67b]. **aided** [HS68a]. **algebra** [Cam68, Lev67, Ste67, Swa69]. **Algol** [Ber68]. **algorithms** [Swa69]. **almost** [Cro67a, HA68]. **alphabetic** [GK69]. **among** [KKS68]. **analysis** [Cam66, Gra68, Kop69, TW69]. **analytic** [Sch69a]. **analytical** [JK69]. **analyze** [SG69]. **angle** [WCT68]. **angles** [Yut67]. **anisotropic** [vdH68]. **appearing** [Che69]. **applicable** [Bye67]. **Application** [BD69, Les68, LC68, NH69]. **approach** [BG69b]. **Approximation** [FJ68, Dor68, Pie67]. **approximations** [BK67, Wil66]. **arbitrarily** [Tay68]. **arbitrary** [Ste68, Vie69]. **argument** [Zak69]. **arising** [Les68, LC68, SR68]. **artificial** [Cam66, vL69]. **associated** [Ste67]. **astron** [KR66]. **Asymptotic**

[BG69b, vdH68]. **atmosphere** [Pie67, Yan69]. **atmospheres** [GB66]. **atmospheric** [SR68]. **atom** [HM69]. **atomic** [JK69, Kal66, SH68]. **Author** [Ano67a, Ano68, Ano69a, Ano69b]. **automation** [Gla68].

**bases** [Wol68]. **basic** [KK67]. **behavior** [ZD67]. **Berkeley** [GLSM68]. **beta** [Bye67]. **body** [BD69, BF69]. **Boltzmann** [HS68b, LC66]. **Born** [Sch66]. **both** [BK67]. **bound** [KE68]. **bound-state** [KE68]. **boundaries** [Vie69]. **boundary** [AWS69, KK67, LC68, Mat68, RR68]. **boundary-layer** [LC68]. **boundary-value** [KK67, Mat68, RR68]. **bubble** [Yut67]. **bubble-chamber** [Yut67].

**calculate** [Way68]. **calculating** [AI69, DS67, Tro66a, Tro66b, WCT68]. **Calculation** [Zak69, Cro67a, Gab68, HA68, Lap67, Mat69, Tay68]. **calculations** [BR69, Bur66, Car69b, Dal69, Del68, HM69, HS68c, Sau67]. **calibrating** [Ber68]. **Carlo** [BKKV69, HS68b, LJS69a, LJS69b, Mat69, TW69]. **caused** [Cam66]. **cells** [BF69]. **certain** [AWS69, Bak69, Wil66]. **chains** [Ver69]. **chamber** [Yut67]. **characteristics** [Sau67]. **charged** [Tro66b]. **chemical** [GLSM68, Tro66b]. **chemistry** [AF68, Ham68]. **chemists** [Ham68]. **choice** [Rig69]. **circular** [WCT68]. **circulation** [Bry69]. **class** [AWS69, BK67]. **closed** [FSD<sup>+</sup>67]. **closed-loop** [FSD<sup>+</sup>67]. **Clouds** [BF69]. **clouds-in-cells** [BF69]. **Clouds-in-clouds** [BF69]. **coalescence** [AJ69]. **coefficients** [NH69]. **coil** [Ver69]. **collection** [GLSM68]. **collisions** [Way68]. **combined** [CS67]. **Comment** [Lau69]. **Comments** [Yee70]. **compact** [Har69]. **comparison** [Gar69]. **complementary** [Zak69]. **complex** [KE68, Zak69]. **compressible** [FA68, GMD66, RB67, vL69]. **Computation** [Aha69, Hag68, Kop69, BT69, Che69, Har69, KR66, Ste68]. **Computational** [Ara66, Ste67, BK67]. **Computer** [AF68, HS68a, Swa69, Bye67, FSD<sup>+</sup>67, HH69, Lev67, PR67]. **Computer-aided** [HS68a]. **Computers** [Ham68]. **computing** [AJ69, KM69b, Vie69]. **concerning** [Bla67]. **condition** [RR68]. **conditional** [FJ68]. **conditions** [HS68c, Tay69]. **conducting** [Kel67]. **conduction** [CS67]. **conductivity** [JPW68]. **conference** [Ham68]. **confined** [TLF69]. **Conservation** [APR68]. **Construction** [SH68, HS68a]. **containing** [Bur66, Tay68]. **content** [Sch66]. **control** [AF68, GLSM68]. **convective** [Fro68]. **convergence** [RR68]. **Coordinate** [Ush67, Ush68, APR68]. **coordinates** [BT69, LJS69a]. **corrective** [HH67]. **correlation** [JK69]. **coupled** [Hat69, Les68]. **coupling** [PR67]. **cross** [Ste68]. **crystallography** [GK69, Ham68]. **crystals** [Kop69]. **cubic** [Gab68]. **curve** [Che69]. **curved** [Mat68]. **curvilinear** [APR68]. **cylindrical** [Kel67].

**data** [GLSM68, Sou69, Win68]. **decays** [Tro66a]. **degenerate** [LC69]. **derivatives** [Les68]. **description** [RR68]. **design** [Ara66, BS68]. **detached** [Lap67]. **Determination** [BG69a, Yut67, MB69]. **diatomic** [SG69].

**Difference** [Deb67, PH68, RB67, BK67, Bun67, Bur66, Dor68, Fro68, Gar69, HP68, Hir68, KL69, Wen69, Wil66, vL69]. **differences** [Lap67]. **differencing** [Eme68, GMD66, Lat69]. **differential** [Hag68, KL69, Kus69, Les68, SR68, Slo68c, Wil66]. **diffuse** [GB66]. **diffusion** [vL69]. **digital** [BS68, FSD<sup>+</sup>67, Lev67, PR67]. **dimensional** [AI69, APS66, Ara66, BT69, Cos69, HP68, JPW68, O'B69, PH68, Yee70]. **dimensions** [BR69, Bye67, Con67]. **dimers** [MB69]. **dipole** [DS67]. **Dirac** [Cam68, Lev67, Swa69]. **direct** [Ng68, O'B69, Yee70]. **Dirichlet** [Lic69, Tay69]. **discontinuities** [Bur66]. **discontinuous** [KH69]. **Discrete** [BD69, FA68, Gra68]. **disk** [WCT68]. **disks** [HH69]. **dispersion** [Fro68]. **distribution** [AJ69]. **distributions** [BKKU67]. **divergence** [Lic69]. **domain** [BS68]. **due** [AJ69]. **dynamic** [Tro66a]. **Dynamics** [ZD67, AH68, KH69, Wil66].

**Effect** [RR68]. **effects** [Dal69]. **eigenfunctions** [SH68]. **eigenvalue** [LC68]. **eigenvalues** [Hag68, KE68]. **elastic** [PH68]. **electric** [Ste68]. **electrode** [Kel67]. **electron** [HM69, KR66]. **electron-atom** [HM69]. **Electronic** [CD66]. **elements** [Car69a, HS68a, PR67, Tro66b]. **elliptic** [Mat68]. **energy** [FSD<sup>+</sup>67, MB69, Tro66b, Way68]. **entrainment** [Cro67a]. **equation** [BD69, Bla67, Con67, Deb67, Dor68, GS67a, GS67b, GS69, KK67, KM69a, Lat69, Les68, O'B69, RO69, Win66, Yee70, HS68b, LC66]. **equations** [APR68, Ara66, CS67, Deb67, Hag68, Hat69, Hir68, KF68, KE68, KL69, Kus69, Les68, MR68, PH68, RB67, SR68, Slo68c, Wil66, vL69]. **equilibrium** [Ush67]. **equivalences** [KKS68]. **Erratum** [Ano67b]. **Error** [GB68, Zak69]. **errors** [Cam66, Del68, Slo68a]. **estimates** [GB68]. **estimation** [BKKU67]. **Eulerian** [FA68, GMD66]. **evaluating** [NH69]. **Evaluation** [LN69, Eme68, GCO67, JK69, LJS69a, PR67, Slo68b]. **evaporation** [AJ69]. **events** [BKKV69]. **example** [Inn66, KH69]. **exchange** [LN69]. **excitations** [ZD67]. **expansion** [Ush68]. **experimental** [Mil67, Sou69]. **experiments** [GLSM68]. **explicit** [Les68]. **exterior** [Dor68]. **external** [BKKU67, Vie69].

**Feynman** [LJS69a, LJS69b]. **field** [BKKU67, Con67, Tay69, Win68, Yut67]. **fields** [DS67, Ste68]. **filters** [BS68]. **Finite** [Bur66, Dor68, BK67, BS68, Hir68, Lap67]. **Finite-difference** [Bur66, Dor68, BK67, Hir68]. **finite-memory** [BS68]. **first** [Les68]. **Fitting** [Sou69, vdH68]. **flow** [Ara66, BT69, Cho67, Eme68, GMD66, HA68, HS68c, NH69, PH68, TW69, vL69]. **flows** [BG69b, Bur66, Cro67a, Sau67, Tay68]. **fluid** [AH68, APS66, Ara66, Eme68, KH69, Vie69, Wil66]. **Flux** [KKS68]. **Fock** [MR68]. **Fokker** [KF68]. **form** [APR68, BK67]. **formation** [KR66]. **formed** [KF68]. **Formic** [MB69]. **FORTRAN** [Tro66a, Tro66b, AJ69, DS67, SG69, WCT68, Wol68]. **Fourier** [GK69, GCO67]. **Free** [HS68c]. **Free-surface** [HS68c]. **frontal** [AI69]. **function** [Inn66, Kal66, Zak69]. **functions** [Car69b, HS68a, Ng68, Sch69a].

**gap** [RB69]. **gas** [BT69, NH69, RB67, Tay68]. **gasdynamic** [Cro67a].  
**general** [BK67, DS67, HH67]. **generating** [BKKV69]. **global** [Cro68]. **glow**  
 [Che69]. **gravity** [HJ69]. **group** [Wol68].

**Hamiltonian** [KM69b, PR67]. **handling** [Wol68]. **harmonics** [Gab68].  
**Hartmann** [BG69b]. **Hartree** [MR68]. **heat** [CS67]. **heat-transfer** [CS67].  
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 [PR67]. **higher** [Ng68]. **hydrodynamic** [Bur66, Dal69]. **hydrodynamics**  
 [APR68]. **hydrogen** [KF68]. **hyperbolic** [HP68].

**II** [GS67b, Ush68]. **imaginary** [GS67a, GS67b, LJS69a, LJS69b]. **imbedding**  
 [BKK66, Hag68]. **including** [Dal69, Vie69]. **incompressible**  
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 [Tay69]. **Information** [Sch66]. **infrasonic** [Pie67]. **Initial**  
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 [KK67, HH67, KL69, Kus69, Mil67]. **injection** [KF68]. **integral**  
 [Che69, FJ68, KK67, KM69a]. **Integrals**  
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 [GS67a, GS67b, Ara66, LJS69b, Les68, Sch69a]. **interaction** [MB69].  
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**internal** [DS67]. **interpolation** [Inn66]. **Invariant** [BKK66]. **investigations**  
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 [Yan69]. **isotropic** [KKS68]. **iteration** [Mat68]. **iterative** [GB68].

**kinematic** [Tro66a]. **Knudsen** [TW69]. **Kutta** [Slo68a].

**L** [SH68]. **L-S** [SH68]. **laboratory** [Gla68, AF68]. **Lagrangian** [Cro67a].  
**large** [CD66, Tay68]. **lattices** [DS67, JPW68, ZD67]. **Lawrence** [AF68].  
**layer** [KR66, LC68]. **layers** [vdH68]. **least** [BD69]. **Legendre** [Deb67]. **line**  
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 [Bye67]. **Luke** [NH69].

**MAC** [Vie69]. **magnetic** [Ste68, Win68, Yut67]. **magnetostatic** [Con67].  
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 [GK69]. **mass** [Cro67a]. **matrix**  
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**memory** [BS68]. **mesh** [Win66]. **Method**  
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**natural** [BT69]. **neutral** [KF68]. **NMR** [Kop69, PR67]. **Non** [LN69]. **Non-exchange** [LN69]. **nonlinear** [AWS69, BK67, Bye67, Con67, Cos69, HS68b, Lic69, ZD67]. **nonlocal** [RO69]. **nonuniform** [Win66, Yut67]. **nonunique** [KH69]. **Note** [Cam68, Slo68a]. **nuclear** [BD69]. **number** [Tay68]. **Numerical** [APS66, BKKU67, BT69, Con67, CS67, Gra68, HA68, KF68, LC66, Mat68, Sau67, Sch67, Sch69a, Sha67, Ste68, Win66, AH68, Ara66, Bry69, Cho67, Cro67b, Cro68, Gar69, GCO67, GS69, HH67, HJ69, KM69a, Kus69, Les68, Mil67, O'B69, RB69, Slo68c, Slo68b, Tay69, Yan69, Yee70]. **Numerov** [Slo68a].

**ocean** [Bry69, Cro68]. **off** [Del68]. **On-line** [GLSM68, FSD<sup>+</sup>67]. **one** [APS66, HP68, JPW68, O'B69, WCT68, Yee70, AI69]. **one-dimensional** [APS66, HP68, JPW68, O'B69, Yee70]. **optical** [ZD67]. **optimization** [BR69]. **order** [Cro67b, Hag68, Lap67, Les68, SR68, Slo68c]. **ordinary** [SR68]. **ordinate** [Gra68]. **other** [KKS68].

**paramagnetic** [KM69b]. **parametric** [KM69b]. **Part** [Ara66, Cro68]. **partial** [BG69a, KL69, Kus69, Wil66]. **partially** [Kel67]. **particle** [BR69, Tro66a, Way68]. **particles** [Tro66b]. **Path** [LJS69a]. **perfectly** [Kel67]. **peripheral** [BKKV69]. **perturbation** [LC69]. **phase** [Mat69]. **physics** [BF69, FSD<sup>+</sup>67]. **pipe** [Cro67a]. **PL** [Ush68]. **Planck** [KF68]. **plane** [Sha67, Tay68]. **planetary** [GB66]. **plasma** [BF69, Bye67, KF68]. **plotting** [GK69]. **point** [AWS69]. **points** [Bla67]. **Poiseuille** [BG69b]. **Poisson** [Dor68, Win66]. **polar** [LJS69a]. **polymer** [Ver69]. **polynomial** [Deb67]. **Positivity** [Lat69]. **potential** [Kel67, RO69]. **Practical** [Bla67]. **precise** [Inn66]. **prediction** [Gar69]. **principal** [Slo68b]. **principal-value** [Slo68b]. **principles** [Sch69b]. **problem** [Bak69, BD69, Dor68, KK67, LC68, Lic69, Mat68, NH69, RR68]. **problems** [AWS69, Cho67, Eme68, GMD66, HH67, Mil67, Ste67, Tay69, TLF69, vdH68]. **procedure** [HH67]. **procedures** [Bun67]. **Processing** [Win68]. **produced** [Way68]. **program** [AJ69, Ber68, Cam68, DS67, KM69b, SG69, Tro66a, Way68, WCT68]. **propagating** [Yan69]. **propagation** [Cos69, Pie67]. **propagator** [LJS69b].

**proton** [Way68]. **proton-proton** [Way68]. **pseudoviscosity** [HP68]. **PUFL** [Cro67a]. **pulsed** [Kop69]. **pulsed-NMR** [Kop69].

**quantities** [Tro66a]. **quasi** [LC68, Ush67]. **quasi-linearization** [LC68]. **quasi-static** [Ush67]. **quasilinear** [Win66].

**Racah** [Ste67]. **Radiation** [AF68, BKKU67, CS67, GB66, ZD67]. **radiation-field** [BKKU67]. **radiative** [BKK66, KK67, Wen69]. **raindrop** [AJ69]. **random** [Rus68, Ver69]. **random-coil** [Ver69]. **range** [Tro66b]. **range-energy** [Tro66b]. **rarefied** [NH69]. **ray** [GK69]. **Rayleigh** [KKS68, LC69, NH69]. **real** [KE68]. **realization** [Rus68]. **recursive** [JK69]. **reducing** [Fro68]. **reduction** [GLSM68]. **reflection** [GB66]. **reflections** [Sha67]. **region** [Mat68]. **relation** [Tro66b]. **relativistic** [KR66]. **relaxation** [Rig69]. **represent** [Cam66]. **representation** [Deb67]. **representations** [Wol68]. **required** [LN69]. **resistance** [Ber68]. **Resolution** [Hat69, PR67]. **resonance** [KM69b]. **results** [BKKU67]. **reversible** [Bun67]. **Riemann** [Har69]. **rotational** [SG69]. **Round** [Del68]. **Round-off** [Del68]. **Runge** [Slo68a].

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**symmetric** [FA68]. **symmetry** [HS68a]. **system** [Gla68, Hat69, SR68].  
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**Taylor** [RB69]. **technique** [Dal69, Tay69, Vie69]. **techniques**  
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**thermometers** [Ber68]. **thick** [vdH68]. **three** [BD69]. **three-body** [BD69].  
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**two-temperature** [Way68]. **type** [KL69, LN69].

**undistorted** [GK69]. **unfolding** [Bak69, GB68]. **uniform** [Ste68]. **unsteady**  
 [GMD66, Sau67]. **use** [FSD<sup>+</sup>67, SH68]. **used** [Gar69]. **using**  
 [BG69a, Cam66, Hag68, PR67].

**value** [AWS69, HH67, KK67, KL69, Kus69, Mat68, Mil67, RR68, Slo68b].  
**Variable** [HP68]. **variation** [Car69b]. **Variational** [Sch69b, Del68]. **vectors**  
 [Rig69]. **versatile** [KM69b]. **vertically** [Yan69]. **viscosity** [Cam66]. **viscous**  
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**volume** [Ano67a, Ano68, Ano69a, Ano69b]. **vortex** [TLF69]. **vortices**  
 [RB69]. **vs** [Lat69].

**wave** [Cos69, HS68a, Kal66, KE68, Pie67]. **waveguide** [Ste68]. **waves**  
 [Cam66, HJ69, SR68, Yan69]. **weather** [Gar69]. **weight** [NH69]. **wide**  
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 [Pie67]. **without** [Les68]. **world** [Bry69]. **Wronskian** [BG69a].

**X** [GK69]. **X-ray** [GK69].

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