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A LINEAR ADI METHOD FOR THE SHALLOW-WATER EQUATIONS. G. Fairweather, *Department of Mathematics, University of Kentucky, Lexington, KY 40506, USA*; and I. M. Navon, *National Research Institute for Mathematical Sciences, C.S.I.R., P. O. Box 395, Pretoria 0001, SOUTH AFRICA.*

ANALYSIS OF THE EFFECT OF BOUNDARY CONDITIONS ON NUMERICAL STABILITY OF SOLUTIONS OF NAVIER–STOKES EQUATIONS. Patrick Bontoux, Bernard Gilly, and Bernard Roux, *Institut de Mécanique des Fluides, 1, rue Honnorat, 13003 Marseille, FRANCE.*

A FOURIER BESSEL TRANSFORM METHOD FOR EFFICIENTLY CALCULATING THE MAGNETIC FIELD OF SOLENOIDS. Jack Nachamkin and C. J. Maggiore, *Los Alamos Scientific Laboratory, P. O. Box 1663, Los Alamos, NM 87545, USA.*

USE OF CALEY–MENGER DETERMINANTS IN THE CALCULATION OF MOLECULAR STRUCTURES. Michael H. Klapper and David DeBrota, *Department of Chemistry, The Ohio State University, Columbus, OH 43210, USA.*

A NEW ALGORITHM TO DETERMINE THE PARAMETERS OF A SINUSOIDAL SIGNAL. J. Lavergnat, J. Portes, and M. Sylvain, *Laboratoire de Géophysique Externe, 4, Avenue de Neptune, 94100 St-Maur, FRANCE.*

A NOTE ON THE NUMERICAL SOLUTION OF ORR–SOMMERFELD TYPE EQUATIONS. L. O'C. Drury, *Institute of Astronomy, Madingley Road, Cambridge, ENGLAND.*

SPECTRAL METHODS FOR PROBLEMS IN COMPLEX GEOMETRIES. Steven A. Orszag, *Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139, USA.*

SPECTRAL METHODS FOR MULTI-DIMENSIONAL DIFFUSION PROBLEMS. Robert L. McCrory, *Laboratory for Laser Energetics, University of Rochester, Rochester, NY 14627, USA*; and Steven A. Orszag, *Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139, USA.*

COMPUTER SIMULATION OF TRAPPED-ELECTRON MODES IN TOKAMAKS. T. L. Crystal and J. Denavit, *Department of Mechanical Engineering and Astronautical Sciences, Northwestern University, Evanston, IL 60201, USA.*

WAVE PROPAGATION IN A VISCOELASTIC SOLID. I. M. Longman, *Department of Geophysics and Planetary Sciences, Tel Aviv University, Ramat Aviv, ISRAEL.*

AN ORBIT-AVERAGED PARTICLE CODE. Bruce I. Cohen, Thomas A. Brengle, Davis B. Conley, and Robert P. Freis, *Lawrence Livermore Laboratory, University of California, P. O. Box 808, Livermore, CA 94550, USA.*

SUBGRID RESOLUTION OF FLUID DISCONTINUITIES, II. J. Glimm, *The Rockefeller University, New York, NY 10021*, D. Marchesin, *Mathematics Department, Pontificia Universidade Catolica do Rio de Janeiro, Rio de Janeiro, BRAZIL*, and O. McBryan, *Mathematics Department, Cornell University, Ithaca, NY, USA.*

NEW BOUNDARY CONDITIONS FOR COMPUTER EXPERIMENTS OF THERMODYNAMIC SYSTEMS. Karl W. Kratky, *Institut für Experimentalphysik der Universität Wien, Boltzmanngasse 5, A-1090 Wien, AUSTRIA.*

EIGENVALUE CORRECTION ESTIMATES FOR THE ONE-DIMENSIONAL SCHRÖDINGER EQUATION. James D. Talman, *Department of Applied Mathematics, University of Western Ontario, London, Ontario, CANADA N6A 5B9.*

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