

List of Forthcoming Articles

- LARGE-SCALE COMPLEX EIGENVALUE PROBLEMS. (Review Article) W. Kerner, *Max-Planck-Institut für Plasmaphysik, Garching bei München, FEDERAL REPUBLIC OF GERMANY.*
- COMPACT h^4 FINITE-DIFFERENCE APPROXIMATIONS TO OPERATORS OF NAVIER-STOKES TYPE. S.C.R. Dennis, *University of Western Ontario, London, Ontario, CANADA*; J. D. Hudson, *University of Sheffield, Sheffield, ENGLAND.*
- NUMERICAL SOLUTION FOR LAMINAR TWO-DIMENSIONAL FLOW ABOUT A FIXED AND TRANSVERSELY OSCILLATING CYLINDER IN A UNIFORM STREAM. Petros Anagnostopoulos, *University of Thessaloniki, GREECE.*
- A NUMERICAL METHOD FOR THE CALCULATION OF THE DIFFUSION OF HIGH ENERGY ELECTRONS IN A HETEROGENEOUS MEDIUM. P. Storchi, *Dr. Daniel den Hoed Cancer Center, Rotterdam, THE NETHERLANDS*; R. J. van der Linden, *Technical University of Delft, Delft, THE NETHERLANDS.*
- NUMERICAL METHODS IN CALCULATING BOSON AND FERMION LOOP CORRECTIONS. Ming Li, *University of Maryland, College Park, Maryland, USA*; Lawrence Wilits, *University of Washington, Seattle, Washington, USA*; Robert J. Perry, *Ohio State University, Columbus, Ohio, USA.*
- CALCULATION OF SHOCKED ONE-DIMENSIONAL FLOWS ON ABRUPTLY CHANGING GRIDS BY MATHEMATICAL PROGRAMMING. John E. Lavery, *NASA Lewis Research Center, Cleveland, Ohio, USA.*
- KINETIC BOUNDARY LAYERS, NUMERICAL SIMULATIONS. Philippe Rostand, *INRIA, Le Chesnay, FRANCE.*
- SEMI-IMPLICIT FINITE DIFFERENCE METHODS FOR THE TWO-DIMENSIONAL SHALLOW WATER EQUATIONS. Vincenzo Casulli, *Universita' degli Studi di Trento, Povo (Trento), ITALY.*
- NUMERICAL STUDY OF A THREE-DIMENSIONAL VORTEX METHOD. Omar M. Knio and Ahmed F. Ghoniem, *Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.*
- USE OF IMPLICIT AND EXPLICIT FLUX-CORRECTED TRANSPORT ALGORITHMS IN GAS DISCHARGE PROBLEMS INVOLVING NON-UNIFORM VELOCITY FIELDS. P. Steinle, *University of Adelaide, Adelaide, AUSTRALIA*; R. Morrow, *CSIRO, Sydney, AUSTRALIA.*
- UPDATING MEANS AND VARIANCES. Alan J. Miller, *CSIRO, Clayton, Victoria, AUSTRALIA.*
- A CRITICAL ANALYSIS OF THE MODIFIED EQUATION TECHNIQUE OF WARMING AND HYETT. Sin-Chung Chang, *NASA Lewis Research Center, Cleveland, Ohio, USA.*
- A NUMERICAL STUDY OF THE NONLINEAR SCHRÖDINGER EQUATION INVOLVING QUINTIC TERMS. A. Clout, B. M. Herbst, and J. A. C. Weideman, *University of the Orange Free State, Bloemfontein, SOUTH AFRICA.*
- IMPLICIT SOLUTION OF THE INCOMPRESSIBLE NAVIER-STOKES EQUATIONS ON A NON-STAGGERED GRID. M. L. Mansour and A. Hamed, *University of Cincinnati, Cincinnati, Ohio, USA.*
- A MODIFIED SHAKE ALGORITHM FOR MAINTAINING RIGID BONDS IN MOLECULAR DYNAMICS SIMULATIONS OF LARGE MOLECULES. S. G. Lambrakos, J. P. Boris, E. S. Oran, I. Chandrasekhar, and M. Nagumo, *Naval Research Laboratory, Washington, District of Columbia, USA.*
- A NUMERICAL ALGORITHM TO STUDY INTERNAL SOLITARY WAVES. Charles Quon and Helmut Sandstrom, *Bedford Institute of Oceanography, Dartmouth, Nova Scotia, CANADA.*
- A STUDY OF NUMERICAL METHODS FOR HYPERBOLIC CONSERVATION LAWS WITH STIFF SOURCE TERMS. R. J. LeVeque, *University of Washington, Seattle, Washington, USA*; H. C. Yee, *NASA Ames Research Center, Moffett Field, California, USA.*
- THREE-DIMENSIONAL GAS DYNAMICS IN A SPHERE. Silvano Bonazzola and Jean-Alain Marck, *Observatoire de Paris, section de Meudon, FRANCE.*
- A NEW VORTEX SCHEME FOR VISCOUS FLOWS. Dalia Fishelov, *University of California, Berkeley, California, USA, and Weizmann Institute of Science, Rehovot, ISRAEL.*

- NUMERICAL METHODS FOR HYPERSONIC BOUNDARY LAYER STABILITY. M. R. Malik, *High Technology Corporation, Hampton, Virginia, USA.*
- A COURANT CONDITION-FREE MODIFIED PARTIALLY IMPLICIT METHOD. REVISED ELECTROMAGNETIC PARTICLE CODE PS2M FOR BOUNDED PLASMAS WITH CONDUCTING WALLS. Hirotada Abe, *Kyoto University, Kyoto, JAPAN*; Sadanojyo Nakajima, *Tokushima University, Tokushima, JAPAN.*
- COMPRESSIBLE LINEAR AND NONLINEAR RESISTIVE MHD CALCULATIONS IN TOROIDAL GEOMETRY. L. A. Charlton, J. A. Holmes, V. E. Lynch, and B. A. Carreras, *Oak Ridge National Laboratory, Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee, USA*; T. C. Hender, *Uratom/UKAEA Fusion Association, Culham Laboratory, Abingdon, Oxon, ENGLAND.*
- INTERACTION OF OSCILLATING FILAMENTS—A COMPUTATIONAL STUDY. Lisa J. Fauci, *Tulane University, New Orleans, Louisiana, USA.*
- THE MULTIDIMENSIONAL POSITIVE DEFINITE ADVECTION TRANSPORT ALGORITHM: NONOSCILLATORY OPTION. Piotr K. Smolarkiewicz and Wojciech W. Grabowski, *National Center for Atmosphere Research, Boulder, Colorado, USA.*
- SPLIT-STEP SPECTRAL METHOD FOR NONLINEAR SCHRÖDINGER EQUATION WITH CONSTANT BACKGROUND INTENSITIES. T. Geisler and P. L. Christiansen, *The Technical University of Denmark, Lyngby, DENMARK*; J. Mork, *Telecommunication Research Laboratory, Horsholm, DENMARK*; P. S. Ramanujam, *Danish Institute of Fundamental Metrology, Lyngby, DENMARK.*
- AN ALGORITHM TO FIND ALL PATHS BETWEEN TWO NODES IN A GRAPH. M. Migliore and V. Martorana, *C.N.R. — Institute for Interdisciplinary Applications of Physics, Palermo, ITALY*; F. Sciortino, *University of Palermo, Palermo, ITALY.*