

List of Forthcoming Articles

- A MULTISTEP IMPLICIT SCHEME FOR TIME-DEPENDENT TWO-DIMENSIONAL MAGNETOHYDRODYNAMIC FLOWS. Y. Q. Hu, *University of Science & Technology of China, Hefei, Anhui, PEOPLE'S REPUBLIC OF CHINA.*
- A SCALABLE ARCHITECTURE FOR LATTICE-GAS SIMULATIONS. Steven K. Kugelmass and Kenneth Steiglitz, *Princeton University, Princeton, New Jersey, USA.*
- THE CONSTRUCTION OF THE MAXWELL REPRESENTATION FOR A CYLINDRICALLY SYMMETRIC SPHERICAL HARMONIC OF ARBITRARY ORDER. Edwin S. Campbell and David Belford, *New York University, New York, New York, USA.*
- AN OPEN BOUNDARY CONDITION FOR THE COMPUTATION OF THE STEADY INCOMPRESSIBLE NAVIER-STOKES EQUATIONS. F. Nataf, *Centre de Mathématiques Appliquées de l'Ecole Polytechnique, Palaiseau, FRANCE.*
- A COMPARISON OF NUMERICAL METHODS FOR SOLVING NONLINEAR INTEGRAL EQUATIONS FOUND IN LIQUID THEORIES. Luis Mier y Terán, Enrique Diaz-Herrera, Marcelo Lozada-Cassou, and Rafaél Saavedra-Barrera, *Universidad Autónoma Metropolitana-Iztapalapa, MEXICO.*
- AN IMPROVED UPWIND SCHEME FOR THE EULER EQUATIONS. Shen-Min Liang and Jyh-Jang Chan, *National Cheng Kung University, Tainan, Taiwan, REPUBLIC OF CHINA.*
- THE NUMERICAL SOLUTION OF PARABOLIC FREE BOUNDARY PROBLEMS ARISING FROM THIN FILM FLOWS. Roland Hunt, *University of Strathclyde, Glasgow, Scotland, UNITED KINGDOM.*
- TRANSFORMATIONS OF MATRICES INTO BANDED FORM. Laurette S. Tuckerman, *University of Texas, Austin, Texas, USA.*
- CLOSED EXPRESSIONS FOR SOME USEFUL INTEGRALS INVOLVING LEGENDRE FUNCTIONS AND SUM RULES FOR ZEROES OF BESSEL FUNCTIONS. G. N. Afanasiev, *Joint Institute for Nuclear Research, Dubna, Moscow District, USSR.*
- A MULTI-DOMAIN SPECTRAL COMPUTATION OF THREE-DIMENSIONAL LAMINAR HORSESHOE VORTEX FLOW USING INCOMPRESSIBLE NAVIER-STOKES EQUATIONS. C. S. Tan, *Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.*
- A SECOND-ORDER PROJECTION METHOD FOR THE INCOMPRESSIBLE NAVIER-STOKES EQUATIONS. John B. Bell and Phillip Colella, *Lawrence Livermore National Laboratory, Livermore, California, USA;* Harland M. Glaz, *University of Maryland, College Park, Maryland, USA.*
- A MOVING FINITE ELEMENT MODEL OF THE HIGH DENSITY Z-PINCH. Alan H. Glasser, *Los Alamos National Laboratory, Los Alamos, New Mexico, USA.*
- COMPUTATION OF REACTIVE DUCT FLOWS IN EXTERNAL FIELDS. Matania Ben-Artzi and Amnon Birman, *Technion—Israel Institute of Technology, Haifa, ISRAEL.*
- PARTICLE CODE OPTIMIZATION ON VECTOR COMPUTERS. A. Heron and J. C. Adam, *Ecole Polytechnique, Palaiseau, FRANCE.*
- THE INFLUENCE OF OPEN BOUNDARY CONDITIONS ON THE CONVERGENCE TO STEADY-STATE FOR THE NAVIER-STOKES EQUATIONS. Jan Nordstrom, *FFA, The Aeronautical Research Institute of Sweden, Bromma, SWEDEN.*
- A GENERAL CONCURRENT ALGORITHM FOR PLASMA PARTICLE-IN-CELL SIMULATION CODES. Paulett C. Liewer, *Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA;* Viktor K. Decyk, *University of California at Los Angeles, Los Angeles, California, USA.*
- RESISTIVE EVOLUTION OF MAGNETIC FIELDS IN PLASMAS. G. Miller, V. Faber, and A. B. White, Jr., *Los Alamos National Laboratory, Los Alamos, New Mexico, USA.*
- A BOUNDARY INTEGRAL APPROACH TO UNSTABLE SOLIDIFICATION. John Strain, *Lawrence Berkeley Laboratory, University of California, Berkeley, California, USA.*