

## List of Forthcoming Articles

- A LAGRANGIAN METHOD FOR THE SHALLOW WATER EQUATIONS BASED ON A VORONOI MESH—ONE DIMENSIONAL RESULTS. Jeffrey M. Augenbaum, *Code 911, NASA-Goddard Space Flight Center, Greenbelt, MD 20771, USA.*
- AN ITERATIVE NUMERICAL ALGORITHM FOR SOLVING MULTI-PARAMETER INVERSE PROBLEMS OF EVOLUTIONAL PARTIAL DIFFERENTIAL EQUATIONS. Y. M. Chen, *Department of Applied Mathematics and Statistics, State University of New York, Stony Brook, New York 11794, USA;* and J. Q. Liu, *Department of Applied Mathematics, Harbin Institute of Technology, Harbin, PEOPLE'S REPUBLIC OF CHINA.*
- A MULTIPLE TIME-STEP METHOD FOR MOLECULAR DYNAMICS SIMULATIONS OF FLUIDS OF CHAIN MOLECULES. R. D. Swindoll and J. M. Haile, *Department of Chemical Engineering, Clemson University, Clemson, SC 29631, USA.*
- THE EKMAN MATCHING CONDITION IN A PARTIALLY FILLED, RAPIDLY ROTATING CYLINDER. R. J. Ribando and M. A. Shadday, Jr., *Department of Mechanical and Aerospace Engineering, Research Laboratories for the Engineering Sciences, School of Engineering and Applied Science, University of Virginia, Charlottesville, Virginia 22901, USA.*
- THE USE OF NONRATIONAL FUNCTIONS TO REPRESENT STEEP FRONT SOLUTIONS TO PARTIAL DIFFERENTIAL EQUATIONS. John Greenstadt, *IBM Scientific Center, P. O. Box 10500, Palo Alto, California 94304, USA.*
- FAST SCHEME FOR PHOTON-MAXWELLIAN ELECTRON CROSS SECTIONS. B. R. Wienke and B. L. Lathrop, *Computing Division, Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA.*
- ANALYTICAL, LINEAR STABILITY CRITERIA FOR THE LEAP-FROG, DUFORT-FRANKEL METHOD. Benoit Cushman-Roisin, *Mesoscale Air-Sea Interaction Group, Meteorology Annex, Florida State University, Tallahassee, Florida 32306, USA.*
- PLASMA EQUILIBRIUM CALCULATIONS BY LINE SUCCESSIVE OVER RELAXATION. M. H. Redi and D. A. Larrabee, *Plasma Physics Laboratory, Princeton University, C-Site, James Forrestal Campus, P. O. Box 451, Princeton, New Jersey 08544, USA.*
- THE TURN FUNCTION AND VORTICITY METHOD FOR NUMERICAL FLUID DYNAMICS. Peter J. O'Rourke, *Group T-3, M.S. B216, Los Alamos National Laboratory, Los Alamos, NM 87545, USA.*
- SOLUTION OF ELLIPTIC EQUATIONS USING FAST POISSON SOLVERS. Paul A. Bernhardt and J. U. Brackbill, *Group ESS-7, M.S. D466, Los Alamos National Laboratory, Los Alamos, NM 87545, USA.*
- A MODIFIED MULLER ROUTINE FOR FINDING THE ZEROES OF A NON-ANALYTIC COMPLEX FUNCTION. Charles C. Dyer, *Scarborough College and David Dunlap Observatory, University of Toronto, 1265 Military Trail, West Hill, Ontario M1C 1A4, CANADA.*