## List of Forthcoming Articles

- Numerical Studies of Coupled Time-Dependent Equations for the Earth's Upper Atmosphere: A Method Employing a Self-Diffusion Coefficient. G. J. Bailey, Department of Applied Mathematics and Computing Science, University of Sheffield, Sheffield S10 2TN, ENGLAND.
- ON THE PROBLEM OF UNSTABLE PIVOTS IN THE INCOMPLETE LU-CONJUGATE GRADIENT METHOD. David S. Kershaw, L-477, Lawrence Livermore Laboratory, P. O. Box 808, Livermore, CA 94550, USA.
- A FUNCTIONAL RELATION AND AN ACCELERATION PROCEDURE FOR CALCULATING THE VOLTAGE RESPONSE OF JOSEPHSON JUNCTIONS. W. L. Miranker and K. Bandes, Department of Mathematical Sciences, IBM Thomas J. Watson Research Center, Yorktown Heights, NY 10598, USA.
- A DISCRETE ORDINATES SOLUTION OF THE FOKKER-PLANCK EQUATION CHARACTERIZING CHARGED PARTICLE TRANSPORT. Thomas A. Mehlhorn, Division 4247, Sandia Laboratories, Albuquerque, NM 87185, and James J. Duderstadt, Department of Nuclear Engineering, The University of Michigan, Ann Arbor, MI 48109, USA.
- THE EFFECT OF CELL REYNOLDS NUMBER ON THE COMPUTATION OF A BOUNDARY LAYER. G. W. Hedstrom, Lawrence Livermore Laboratory, P.O. Box 808, Livermore, CA 94550, and Albert Osterheld, Department of Physics, Stanford University, Stanford, CA 94305, USA.
- AN AUTOMATIC ERROR-CONTROL TECHNIQUE FOR COMPUTATION OF EIGENLENGTHS. P. Nelson, Jr., Department of Physics, Texas Tech University, Lubbock, TX 79409, and A. K. Ray, Quantum Theory Project, University of Florida, Gainesville, FL 32611, USA.
- THE SPONTANEOUS GENERATION OF THE SINGULARITY IN A SEPARATING LAMINAR BOUNDARY LAYER. L. L. van Dommelen and S. F. Shen, Sibley School of Mechanical and Aerospace Engineering, 246 Upson Hall, Cornell University, Ithaca, NY 14853, USA.
- A FLUX PRESERVING METHOD OF COUPLING FIRST AND SECOND ORDER EQUATIONS TO SIMULATE THE FLOW OF PLASMA BETWEEN THE PROTONOSPHERE AND THE IONOSPHERE. E. R. Young and P. G. Richards, Space Physics Research Laboratory, University of Michigan, 2455 Hayward, Ann Arbor, MI 48109, and D. G. Torr, Regis College Research Center, Weston, MA 02193, USA.
- APPLICATION OF HERMITE APPROXIMATION TO A BOUNDARY VALUE PROBLEM. R. E. Grundy and G. M. Phillips, Mathematical Institute, University of St. Andrews, Fife KY16 9SS, SCOTLAND.
- ON QUANTAL BOUND STATE SOLUTIONS AND POTENTIAL ENERGY SURFACE FITTING. A COMPARISON OF THE FINITE ELEMENT, NUMEROV-COOLEY, AND FINITE DIFFERENCE METHODS. David J. Malik, Joseph Eccles, and Don Secrest, School of Chemical Sciences, University of Illinois, Urbana, IL 61801, USA.
- IMPLEMENTING HAMILTON'S LAW OF VARYING ACTION WITH SHIFTED LEGENDRE POLYNOMIALS. Donald L. Hitzl, Dept. 52-56, Bldg. 201, Lockheed Palo Alto Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304, USA.