

## List of Forthcoming Articles

- ON ANALYTICAL AND NUMERICAL ASPECTS OF CERTAIN NONLINEAR EVOLUTION EQUATIONS. PART I, ANALYTICAL; PART II, NUMERICAL, NONLINEAR SCHRÖDINGER EQUATION; PART III, NUMERICAL, KORTEWEG-DE VRIES EQUATION. Thiab T. Taha, *Department of Computer Science, University of Georgia, Athens, Georgia 30602*; and Mark J. Ablowitz, *Department of Mathematics and Computer Science, Clarkson College of Technology, Potsdam, New York 13676, USA*.
- APPLICATION OF THE CHEBYSHEV METHOD TO RADIATIVE TRANSFER CALCULATIONS FOR LASER HEATED TARGETS. D. J. Bond, *The Blackett Laboratory, Imperial College of Science and Technology, London SW7 2BZ, ENGLAND*.
- EXPONENTIALLY DERIVED SWITCHING SCHEMES FOR INVISCID FLOW. A. B. Stephens, *Department of Mathematics and Computer Science, University of Maryland, Baltimore County, Catonsville, Maryland 21228*; and G. R. Shubin, *Exxon Production Research Company, Box 2189, Houston, Texas 77001, USA*.
- IMPLEMENTATION OF A VARIABLE STEPSIZE VARIABLE FORMULA METHOD IN THE TIME-INTEGRATION PART OF A CODE FOR TREATMENT OF LONG-RANGE TRANSPORT OF AIR POLLUTANTS. Zahari Zlatev, Ruwim Berkowicz and Lars P. Prahm, *Air Pollution Laboratory, National Agency of Environmental Protection, Risø National Laboratory, DK-4000 Roskilde, DENMARK*.
- ON THE GOTTLIEB-TURKEL TIME FILTER FOR CHEBYSHEV SPECTRAL METHODS. Scott R. Fulton, *Department of Atmospheric Science*, and G. D. Taylor, *Department of Mathematics, Colorado State University, Fort Collins, Colorado 80523, USA*.
- A PSEUDO-SPECTRAL METHOD AND PARAMETRIC DIFFERENTIATION APPLIED TO THE FALKNER-SKAN EQUATION. H. Thomas Sharp and Wesley L. Harris, *Department of Aeronautics and Astronautics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA*.
- A NEW ALGORITHM FOR THE MONTE CARLO SIMULATION OF SPIN-EXCHANGE KINETICS OF ISING SYSTEMS. Abdullah Sadiq, *Pakistan Institute of Nuclear Science and Technology, P.O. Nilore, Rawalpindi, PAKISTAN*.
- THREE DIMENSIONAL, STRATIFIED GAS FLOWS PAST AN OBSTACLE. Mark A. Hausman and William W. Roberts, Jr., *Department of Applied Mathematics and Computer Science, University of Virginia, Thornton Hall, Charlottesville, VA 22901, USA*.
- SOLVING VERY LARGE ELLIPTIC PROBLEMS ON A SUPERCOMPUTER WITH SOLID STATE DISK. Ingrid Y. Bucher and Thomas L. Jordan, *Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA*.
- NUMERICAL SOLUTION OF SINGULAR BOUNDARY VALUE PROBLEMS BY INVARIANT IMBEDDING. Mohan K. Kadalbajoo and K. S. Raman, *Department of Mathematics, Indian Institute of Technology, Kanpur 208016, INDIA*.
- A NONLINEAR IMPLICIT CODE FOR RELATIVISTIC ELECTRON BEAM TRACKING STUDIES. Bertram Hui and Martin Lampe, *Plasma Theory Branch, Plasma Physics Division, Naval Research Laboratory, Washington, D.C. 20375, USA*.
- A DISCRETE ORDINATE METHOD OF SOLUTION OF LINEAR BOUNDARY VALUE AND EIGENVALUE PROBLEMS. B. Shizgal and R. Blackmore, *Department of Chemistry, University of British Columbia, Vancouver, British Columbia V6T 1Y6, CANADA*.
- DERPER—AN ALGORITHM FOR THE CONTINUATION OF PERIODIC SOLUTIONS IN ORDINARY DIFFERENTIAL EQUATIONS. Martin Holodnick and Milan Kubicek, *Department of Chemical Engineering and Computer Center, Prague Institute of Technology, 166 28 Praha 6 CZECHOSLOVAKIA*.