List of Forthcoming Articles

ON THE STABILITY OF THE NONLINEAR SCHRODINGER EQUATION. B. M. Herbst and J. A. C. Weideman, *Department of Applied Mathematics, University of the Orange Free State, Bloemfontein 9300, South Africa*; A. R. Mitchell, *Department of Mathematical Sciences, The University, Dundee DD1 4HN, Scotland, United Kingdom.*

NUMERICAL EXPERIENCE WITH THE NONLINEAR SCHRODINGER EQUATION. B. M. Herbst, *Department of Applied Mathematics, University of the Orange Free State, Bloemfontein 9300, South Africa*; J. Ll. Morris, *Department of Computer Science, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1*; A. R. Mitchell, *Department of Mathematical Sciences, The University, Dundee DD1 4HN, Scotland, United Kingdom.*

AN ANALYTIC ALGORITHM FOR DECOUPLING AND INTEGRATING SYSTEMS OF NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS. Thomas Wolf, *Sektion Physik, Friedrich-Schiller-Universitat Jena, 6900 Jena, DDR.*

PRECONDITIONED MINIMAL RESIDUAL METHODS FOR CHEBYSHEV SPECTRAL CALCULATIONS. Claudio Canuto, *Instituto Di Analisi Numerica del Consiglio Nazionale delle Ricerche, 27100 Pavia, Italy*; Alfio Quarteroni, *Institute for Computer Applications in Science and Engineering, and Istituto di Analisi Numerica del CNR, Pavia, Italy.*

THE USE OF A PRECONDITIONED BI-CONJUGATE GRADIENT METHOD FOR HYBRID PLASMA STABILITY ANALYSIS. Zoran Mikic & Edward C. Morse, *University of California, Berkeley, CA, USA.*

COMPARISON OF SOLUTION SCHEMES FOR ATOMIC SIMULATION PROBLEMS. M. Mullins, *Polyatomics Research, Mt. View, CA*; M. A. Dokainish, *McMaster University, Hamilton, Canada.*

EFFECT OF COUPLE STRESSES ON TRANSIENT MHD POISEUILLE FLOW. L. Jayaraman & G. Ramanaiah, *Madras Institute of Technology, India.*

TEMPERATURE CORRECTED PHOTON-MAXWELLIAN ELECTRON CROSS SECTIONS FOR MONTE CARLO TRANSPORT APPLICATIONS. B. R. Wienke, B. L. Lathrop & J. J. Devaney, *Los Alamos National Laboratory, Los Alamos, NM, USA.*

ASYMPTOTIC MATCHING BY THE SYMBOLIC MANIPULATOR MACSYMA. Lilian L. Lo, *Stanford University, Stanford, CA, USA.*

A METHOD FOR SIMULATION OF VLASOV SYSTEMS WITH DISCONTINUOUS DISTRIBUTION FUNCTIONS. William S. Lawson, *University of California, Berkeley, CA, USA.*

WAVE-INDUCED BED FLOWS BY A LAGRANGIAN VORTEX SCHEME. P. A. Smith and P. K. Stansby, *University of Manchester, England.*

A SPECTRAL COLLOCATION METHOD FOR THE NAVIER-STOKES EQUATIONS. M. R. Malik. *High Tech Corp., Hampton, VA, USA*; T. A. Zang & N. Y. Hussaini, *NASA Langley Research Center, Hampton, VA, USA.*

FACTORIZATION, INVARIANT MEASURE, AND RANDOM SELECTION OF MATRICES IN $SU(n)$ AND OTHER GROUPS. G. Guralnik, T. Warnock, C. Zemach, *Los Alamos National Laboratory, Los Alamos, NM, USA.*

RANDOM SELECTION FROM TRACE-BIASED INVARIANT DISTRIBUTIONS OF $SU(3)$ MATRICES. G. Guralnik, T. Warnock & C. Zemach, *Los Alamos National Laboratory, Los Alamos, NM USA.*