List of Forthcoming Articles

A METHOD OF SPECTRAL ANALYSIS APPLIED TO PERIODIC AND PSEUDOPERIODIC SIGNALS. R. D. Rajaona and P. Sulmont, *Laboratoire d'Hydrodynamique Navale, E.N.S.M., Université de Nantes, FRANCE.*

CHEBYSHEV PSEUDOSPECTRAL SOLUTION OF SECOND ORDER ELLIPTIC EQUATIONS WITH FINITE ELEMENT PRECONDITIONING. M. Deville, *Unité de Mécanique Appliquée, Université Catholique de Louvain, B-1348 Louvain-la-Neuve, Belgium*; E. Mund, *Service de Métrologie Nucléaire, Université Libre de Bruxelles, B-1050 Bruxelles, BELGIUM.*

SOLUTION OF A STEFAN PROBLEM IN THE THEORY OF LASER WELDING BY THE METHOD OF LINES. Michael Davis and Phiroze Kapadia, *Department of Physics, University of Essex, Colchester, United Kingdom*; John Dowden, *Department of Mathematics, University of Essex, Colchester, UNITED KINGDOM.*

A GENERAL, NON-ITERATIVE REIMANN SOLVER FOR GODUNOV'S METHOD. John K. Dukowicz, *Los Alamos National Laboratory, Los Alamos, NM 87545, USA.*

DISCRETIZATION METHODS FOR ONE-DIMENSIONAL FOKKER-PLANCK OPERATORS. E. W. Larsen and J. G. Sanderson, *Los Alamos National Laboratory, Los Alamos, NM 87545, USA*; C. D. Levermore, *Lawrence Livermore National Laboratory, Livermore, CA 94550, USA*; G. C. Pomraning, *University of California at Los Angeles, Los Angeles, CA 90024, USA.*

CUBIC INTERPOLATED PSEUDO-PARTICLE METHOD (CIP) FOR SOLVING HYPERBOLIC-TYPE EQUATION. H. Takewaki, A. Nishiguchi and T. Yabe, *Osaka University, Suita, Osaka, JAPAN.*

MOLECULAR DYNAMICS ON VECTOR COMPUTERS. Francis Sullivan and Raymond D. Mountain, *National Bureau of Standards, Washington, DC 20234, USA*; Julie O'Connell, *TRW, Inc., USA.*

A COMPACT FINITE DIFFERENCE SCHEME ON A NON-EQUIDISTANT MESH FOR TRANSPORT EQUATIONS IN PLASMA PHYSICS. W. J. Goedheer and J. H. H. M. Potters, *FOM-Instituut voor Plasmafysica, THE NETHERLANDS.*

VISCOUS FLOW PAST A CIRCULAR CYLINDER UP TO REYNOLDS NUMBER 600. Bengt Fornberg, *Exxon Research and Engineering Co., Annandale, New Jersey, USA.*

AN EFFICIENT NEWTON'S METHOD FOR THE NUMERICAL SOLUTION OF FLUID INTEGRAL EQUATIONS. Gilles Zerah, *Commissariat à l'Energie Atomique, FRANCE.*

THE BACK-PROJECTION ANGULAR FLUX ESTIMATOR. William L. Dunn, *Applied Research Associates, Inc., Raleigh, North Carolina, USA.*

CALCULATION OF THE SELF-CONSISTENT ELECTRIC FIELD IN TOROIDAL NONAXISYMMETRIC DIVICES. D. E. Hastings, *Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA*; T. Kamimura, *Nagoya University, JAPAN.*

THE CORE SPREADING VORTEX METHOD APPROXIMATES THE WRONG EQUATION. Claude Greengard, *Courant Institute of Mathematical Sciences, New York University, New York, New York, USA.*