List of Forthcoming Articles

MACROSCOPIC AND MICROSCOPIC MODELS FOR THE RELATIVISTIC BEAM-PLASMA-INSTABILITY—A COMPARISON. Klaus Elsässer and Winfried Maasjost, *Theoretische Physik I, Ruhr-Universität Bochum, 4630 Bochum, WEST GERMANY.*

FINITE ELEMENT SIMULATION OF FLOW IN DEFORMING REGIONS. Daniel R. Lynch, *Resource Policy Center, Thayer School of Engineering, Dartmouth College, Hanover, NH 03755,* and William G. Gray, *Water Resources Program, Department of Civil Engineering, Princeton University, Princeton, NJ 08540, USA.*

NUMERICAL SOLUTION OF HYPERBOLIC SYSTEMS WITH DIFFERENT TIME SCALES USING ASYMPTOTIC EXPANSIONS. Bertil Gustafsson, *Department of Computer Sciences, University of Uppsala, Sturegatan 4 B 2 tr, 75223 Uppsala, SWEDEN.*

FAST ELLIPTIC SOLVERS AND THREE-DIMENSIONAL FLUID-STRUCTURE INTERACTIONS IN A PRESSURIZED WATER REACTOR. U. Schumann, *Kernforschungszentrum Karlsruhe GmbH, Institut für Reaktorentwicklung, Postfach 3640, D-7500 Karlsruhe 1, WEST GERMANY.*

THEORY AND METHOD FOR ACCELERATING THE CONVERGENCE OF SELF-CONSISTENT ELECTRONIC STRUCTURE CALCULATIONS. Luiz G. Ferreira, *Instituto de Física, U.S.P., Caixa Postal 20516, São Paulo, S.P., BRAZIL.*

TRANSPORT OF TERRESTRIAL GAMMA RADIATION IN PLANE SEMI-INFINITE GEOMETRY. P. Kirkegaard and L. Løvborg, *Risø National Laboratory, DK-4000 Roskilde, DENMARK.*

EVOLUTION OF FLUX CONSERVING TOKAMAK EQUILIBRIA WITH PREPROGRAMMED CROSS SECTIONS. J. A. Holmes, Y-K. M. Peng, and S. J. Lynch, *Oak Ridge National Laboratory, P. O. Box Y, Oak Ridge, TN 37830, USA.*

ON THE CONSTRUCTION OF WELL-CONDITIONED SYSTEMS FOR FREDHOLM I PROBLEMS BY MESH ADAPTING. Frank Hagin, *Department of Mathematics, University of Denver, Denver, CO 80208, USA.*

A NON-REFLECTING OUTFLOW BOUNDARY CONDITION FOR SUBSONIC NAVIER–STOKES CALCULATIONS. David H. Rudy and John C. Strikwerda, *ICASE, Mail Stop 132C, NASA Langley Research Center, Hampton, VA 23665, USA.*

CHOOSING STEP SIZES FOR PERTURBATIVE METHODS TO SOLVE THE SCHRÖDINGER EQUATION. L. Gr. Ixaru, M. I. Cristu, and M. S. Popa, *Division of Fundamental Physics, Institute of Physics and Nuclear Engineering, P. O. Box 5206, Bucharest, ROMANIA.*

A HIGHLY CONVERGENT PERTURBATIVE METHOD FOR THE SOLUTION OF SYSTEMS OF COUPLED EQUATIONS ARISING FROM THE SCHRÖDINGER EQUATION. L. Gr. Ixaru, *Division of Fundamental Physics, Institute of Physics and Nuclear Engineering, P. O. Box 5206, Bucharest, ROMANIA.*