List of Forthcoming Articles

MULTI-CELL VORTICES COMPUTED IN LARGE-SCALE DIFFERENCE SOLUTION TO THE INCOMPRESSIBLE EULER EQUATIONS. Arthur Rizzi, *FFA, The Aeronautical Research Institute of Sweden, Bromma, SWEDEN and KTH, The Royal Institute of Technology, Stockholm, SWEDEN.*

HYPERSONIC, STRATIFIED GAS FLOWS PAST AN OBSTACLE: DIRECT SIMULATION MONTE CARLO CALCULATIONS. William W. Roberts, Jr., *University of Virginia, Charlottesville, Virginia, USA*; Mark A. Hausman, *Mission Research Corporation, Santa Barbara, California, USA.*

A NEW VARIABLE STEP METHOD FOR THE NUMERICAL INTEGRATION OF THE ONE-DIMENSIONAL SCHRODINGER EQUATION. Hafez Kobeissi and Majida Kobeissi, *Lebanese University, Beirut, LEBANON and National Research Council, Beirut, LEBANON.*

ADAPTIVE LOCAL GRID REFINEMENT AND MULTI-GRID IN NUMERICAL RESERVOIR SIMULATION. G. H. Schmidt and F. J. Jacobs, *Koninklijke/Shell Exploratie en Produktie Laboratorium, Rijswijk, THE NETHERLANDS.*

SUCCESSIVE EMBEDDINGS OF EXCITED ATOMIC DIPOLES IN PLASMAS. G. Naouri, C. Deutsch, O. Atabek, and R. Lefebvre, *University of Paris, XI, Orsay, FRANCE.*

VARIATIONAL DETERMINATION OF THE NEUTRON INTEGRAL TRANSPORT EQUATION EIGENVALUES USING SPACE ASYMPTOTIC TRIAL FUNCTIONS V. Colombo, P. Ravetto, and M. Sumini, *Politecnico di Torino, Torino, ITALY.*

ONSET OF CHAOS IN DIFFERENTIAL DELAY EQUATIONS Jack K. Hale and Natalia Sternberg, *Brown University, Lefschetz Center for Dynamical Systems, Providence, Rhode Island, USA*

A NOTE ON THE PROGRESSIVE CALCULATION OF THE MEAN AND VARIANCE. Andrew D Booth, *Institute of Ocean Sciences, Sidney, British Columbia, CANADA*; Ian J. M. Booth, *Simon Fraser University, Burnaby, British Columbia, CANADA.*

LINE RELAXATION FOR SPECTRAL MULTIGRID METHODS. Wilhelm Heinrichs, *University of Dusseldorf, Dusseldorf, West Germany (FRG).*

A COMPUTATIONAL MODEL OF AQUATIC ANIMAL LOCOMOTION. Lisa J. Fauci, *Tulane University, New Orleans, Louisiana, USA*; Charles S. Peskin, *Courant Institute of Mathematical Sciences, New York University, New York, New York, USA.*