

## List of Forthcoming Articles

- ACCURACY OF VARIOUS APPROXIMATIONS TO THE EXPONENTIAL INTEGRAL IN GLOW CURVE THEORY. M. Balarin, *Akademie der Wissenschaften der DDR, Forschungsbereich Physik, Kern- und Werkstoffwissenschaften, 8027 Dresden, GERMAN DEMOCRATIC REPUBLIC.*
- A SIMPLIFIED ADAPTIVE MESH TECHNIQUE DERIVED FROM THE MOVING FINITE ELEMENT METHOD. John K. Dukowicz, *Group T-3, MS B216. Los Alamos National Laboratory. University of California, Los Alamos. NM 87545, USA.*
- SOLUTION OF THE ONSAGER EQUATION IN DOUBLY-CONNECTED REGIONS. J. A. Viecelli. *L-71, Lawrence Livermore National Laboratory, University of California, Livermore, CA 94550, USA.*
- ON THE EFFICIENT EVALUATION OF MODIFIED BESSEL FUNCTIONS OF ZEROth AND FIRST ORDERS FOR ARGUMENTS OF THE FORM  $x \exp(i\pi/4)$ . John L. Walmsley, *Boundary Layer Research Division, Atmospheric Environment Service, 4905 Dufferin Street, Downsview, Ontario M3H 5T4, CANADA*
- AN EFFICIENT COMPUTATION SCHEME FOR TRACKING CONTAMINANT CONCENTRATIONS IN FLUID FLOWS. J. M. Sicilian and C. W. Hirt, *Flow Science, Inc., P.O. Box 933, Los Alamos, NM 87544, USA.*
- HIGH-ORDER UPWIND FLUX CORRECTION METHODS FOR HYPERBOLIC CONSERVATION LAWS. B. Edward McDonald, *Naval Ocean Research and Development Activity, Numerical Modeling Division, NSTL Station, MS 39529;* and John Ambrosiano, *Berkeley Scholars, Inc., P.O. Box 852, Springfield, VA 22150, USA.*
- ENERGY AND MOMENTUM CONSERVATION THEOREMS FOR ELECTROSTATIC SIMULATIONS. Viktor K. Decyk, *UCLA Center for Plasma Physics and Fusion Engineering, University of California, Los Angeles, CA 90024, USA.*
- AN OPTIMUM TIME STEP LENGTH FOR CONVERGENCE TO STEADY-STATE SOLUTION IN COMPRESSIBLE-FLOW CALCULATIONS. A. M. J. G. van Run, *Philips Research Laboratories, 5600 JA Eindhoven. THE NETHERLANDS.*
- A FOURIER METHOD FOR 3-DIMENSIONAL PARTIAL DIFFERENTIAL EQUATIONS IN PERIODIC GEOMETRY APPLICATION: HELIAC. A. I. Shestakov and A. A. Mirin, *National Magnetic Fusion Energy Computer Center, Lawrence Livermore National Laboratory, University of California, Livermore, CA 94550, USA.*
- CHEBYSHEV EXPANSION METHODS FOR THE SOLUTION OF THE EXTENDED GRAETZ PROBLEM. Hwar-Ching Ku and Dimitri Hatzivramidis, *Department of Chemical Engineering, Illinois Institute of Technology, 10 West 33rd Street, Chicago, IL 60616, USA.*
- A NUMERICAL STUDY OF THE STEADY SCALAR CONVECTIVE DIFFUSION EQUATION FOR SMALL VISCOSITY. Michael B. Giles, *Massachusetts Institute of Technology, Cambridge, MA 02139;* and Milton E. Rose, *ICASE, Mail Stop 132C, NASA Langley Research Center, Hampton, VA 23665, USA.*
- A MONTE CARLO SIMULATED ANNEALING APPROACH TO OPTIMIZATION OVER CONTINUOUS VARIABLES. David Vanderbilt and Steven G. Louie, *Department of Physics, University of California, Berkeley, CA 94720, USA.*