

## List of Forthcoming Articles

- NATURAL CONVECTION IN AN ENCLOSED CAVITY. Timothy N. Phillips, *ICASE, Mail Stop 132C, NASA Langley Research Center, Hampton, VA 23665, USA.*
- ASYMPTOTIC COEFFICIENTS OF HERMITE FUNCTION SERIES. John P. Boyd, *Department of Atmospheric and Oceanic Science, Space Physics Research Building, University of Michigan, 2455 Hayward Avenue, Ann Arbor, MI 48109, USA.*
- CONSERVATIVE REZONING (REMAPPING) FOR GENERAL QUADRILATERAL MESHES. John K. Dukowicz, *Theoretical Division, Group T-3, Los Alamos National Laboratory, University of California, Los Alamos, NM 87545, USA.*
- ON THE LIMITATIONS OF SPHERICAL HARMONICS FOR THE SOLUTION OF LAPLACE'S EQUATION. P. R. Brazier-Smith, *Topexpress Ltd., 13/14 Round Church Street, Cambridge, ENGLAND.*
- A NUMERICAL STUDY OF THE CUSP CATASTROPHE FOR BENARD CONVECTION IN TILTED CAVITIES. K. A. Cliffe and K. H. Winters, *Theoretical Physics Division, Building 424.4, AERE Harwell, Didcot, Oxon. OX11 0RA, ENGLAND.*
- A FULL-IMPLICIT-CONTINUOUS-EULERIAN (FICE) SCHEME FOR MULTIDIMENSIONAL, TRANSIENT MAGNETOHYDRODYNAMIC (MHD) FLOWS. Y. Q. Hu and S. T. Wu, *Department of Mechanical Engineering, RI D-14, The University of Alabama, Huntsville, Alabama 35899, USA.*
- SINGLE CELL DISCRETIZATIONS OF ORDER TWO AND FOUR FOR BIHARMONIC PROBLEMS. J. S. Stephenson, *Department of Mathematics, University of Saskatchewan, Saskatoon, Saskatchewan S7N 0W0, CANADA.*
- DE VOGELAERE'S METHOD FOR THE AUTOMATIC SOLUTION OF SYSTEMS OF COUPLED HOMOGENEOUS SECOND ORDER DIFFERENTIAL EQUATIONS. J. L. Mohamed, *Department of Statistics and Computational Mathematics, University of Liverpool, Victoria Building, Brownlow Hill, P. O. Box 147, Liverpool L69 3BX, ENGLAND.*
- A SPECTRAL ELEMENT METHOD FOR FLUID DYNAMICS; LAMINAR FLOW IN A CHANNEL EXPANSION. Anthony T. Patera, *Department of Mechanical Engineering, 3-258, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA.*
- SPECTRAL MULTIGRID METHODS FOR ELLIPTIC EQUATIONS II. Thomas A. Zang, Yau Shu Wong and M. Yousuff Hussaini, *Mail Stop 409, NASA Langley Research Center, Hampton, Virginia 23665, USA.*
- SOLVING VERY LARGE ELLIPTIC PROBLEMS ON A CRAY X-MP SUPERCOMPUTER WITH A SOLID STATE DISK. Ingrid Y. Bucher and Thomas L. Jordan, *Computer Research and Applications, C-3, MS-B265, Los Alamos National Laboratory, University of California, Los Alamos, New Mexico 87545, USA.*
- A RANDOM WALK PROCEDURE FOR IMPROVING THE COMPUTATIONAL EFFICIENCY OF THE IMPLICIT MONTE CARLO METHOD FOR NONLINEAR RADIATION TRANSPORT. J. A. Fleck, Jr. and E. H. Canfield, *L-71, Lawrence Livermore National Laboratory, University of California, P. O. Box 808, Livermore, California 94550, USA.*