

List of Forthcoming Articles

- A 3D ANALYSIS OF MAXWELL'S EQUATIONS FOR CAVITIES OF ARBITRARY SHAPE. J. H. Whealton, G. L. Chen, E. F. Jaeger, D. J. Hoffman, *Oak Ridge National Laboratory, Oak Ridge, TN, USA*; R. J. Raridon, R. W. McGaffey, and M. A. Bell, *Martin Marietta Energy Systems, Inc., Oak Ridge, TN, USA*.
- NUMERICAL SIMULATIONS OF THE RAYLEIGH-TAYLOR INSTABILITY. Gretar Tryggvason, *University of Michigan, Ann Arbor, MI, USA*.
- A STUDY OF NONLINEAR RADIATION DAMPING BY MATCHING ANALYTIC AND NUMERICAL SOLUTIONS. J. L. Anderson, *Stevens Institute of Technology, Hoboken, NJ, USA*; D. W. Hobill, *University of Illinois, Champaign, IL, USA*.
- A SPECTRAL COLLOCATION METHOD FOR TWO-DIMENSIONAL COMPRESSIBLE CONVECTION. Serge Gauthier, *Centre D'Etudes de Limeil-Valenton, Villeneuve-St.-Georges, FRANCE*.
- HYPERVISCOSITY FOR COMPRESSIBLE FLOWS USING SPECTRAL METHODS. T. Passot and A. Pouquet, *Observatoire de Nice, Nice, FRANCE*.
- FAST l_p SOLUTION OF LARGE, SPARSE, LINEAR SYSTEMS: APPLICATION TO SEISMIC TRAVEL TIME TOMOGRAPHY. John A. Scales, Adam Gersztenkorn, and Sven Treitel, *Amoco Production Company, Tulsa, OK, USA*.
- GRID RESONANCES, FOCUSING AND BENJAMIN-FEIR INSTABILITIES IN LEAP-FROG TIME DISCRETIZATIONS. A. Cloot and B. M. Herbst, *University of the Orange Free State, Bloemfontein, SOUTH AFRICA*.
- A MIXED FINITE DIFFERENCE/GALERKIN METHOD FOR THREE-DIMENSIONAL RAYLEIGH-BENARD CONVECTION. Jeffrey C. Buell, *NASA Ames Research Center, Moffett Field, CA, USA*.
- A NEW SET OF MINIMUM-ADD SMALL- N ROTATED DFT MODULES. Clive Temperton, *Service de l'Environnement Atmosphérique, Dorval, Quebec, CANADA*.
- A SELF-SORTING IN-PLACE PRIME FACTOR REAL/HALF-COMPLEX FFT ALGORITHM. Clive Temperton, *Service de l'Environnement Atmosphérique, Dorval, Quebec, CANADA*.
- POISSON'S EQUATION, HEXAGONAL GRIDS AND FFT METHODS: PERIODIC BOUNDARY CONDITIONS. W. M. Pickering and P. J. Harley, *The University of Sheffield, Sheffield, ENGLAND*.
- INITIAL AND BOUNDARY CONDITIONS FOR FLUX-LIMITED DIFFUSION THEORY. G. C. Pomranig, *University of California at Los Angeles, Los Angeles, CA, USA*.
- INTERPOLATING AND INTEGRATING THREE-POINT CORRELATION FUNCTIONS ON A LATTICE. James G. Berryman, *Lawrence Livermore National Laboratory, CA, USA*.
- EFFICIENT PARALLEL SIMULATIONS OF DYNAMIC ISING SPIN SYSTEMS. Boris D. Lubachevsky, *AT&T Bell Laboratories, Murray Hill, NJ, USA*.
- FAST FOURIER TRANSFORMS FOR DIRECT SOLUTION OF POISSON'S EQUATION WITH STAGGERED BOUNDARY CONDITIONS. Ulrich Schumann, *DFVLR, Institute of Atmospheric Physics, Oberpfaffenhofen, WEST GERMANY (FRG)*; Roland A. Sweet, *University of Colorado, Denver, CO, USA*.