

List of Forthcoming Articles

- UPWIND COMPACT FINITE DIFFERENCE SCHEMES. I. Christie, *Department of Mathematics, West Virginia University, Morgantown, WV 26506, USA.*
- TIME-DEPENDENT SOLUTION OF PRE-MIXED LAMINAR FLAMES WITH KNOWN TEMPERATURE PROFILE. Jim O. Olsson and Lars L. Andersson, *Applied Physics, AB VOLVO, S-405 08 Gothenburg, SWEDEN;* and Lars L. Anderson, *Department of Physics & Chemistry, Chalmers University of Technology, S-412 96 Gothenburg, SWEDEN.*
- EXPERIMENTS WITH SOME IMPLICIT UPWIND METHODS FOR THE EULER EQUATION. Wim A. Mulder and Bram van Leer, *University Observatory, Leiden, THE NETHERLANDS;* and Bram van Leer, *University of Technology, Department of Mathematics and Informatics, Delft, THE NETHERLANDS.*
- NUMERICAL EVALUATION OF A CAUCHY PRINCIPAL VALUE INTEGRAL THAT ARISES IN A PROBLEM INVOLVING THE GENERATION OF INSTABILITY WAVES. Avram Sidi, *Computer Science Department, Technion—Israel Institute of Technology, Haifa 32000, ISRAEL.*
- ON ACCURACY CONDITIONS FOR THE NUMERICAL COMPUTATION OF WAVES. A. Bayliss, C. I. Goldstein, and E. Turkel, *Institute for Computer Applications in Science and Engineering, NASA Langley Research Center, Hampton, Virginia 23665;* and A. Bayliss, *Exxon Corporate Research;* and C. I. Goldstein, *Brookhaven National Laboratory;* and E. Turkel, *Tel-Aviv University and Institute for Computer Applications in Science and Engineering, USA.*
- MULTI-GRID METHODS FOR OIL RESERVOIR SIMULATION IN TWO AND THREE DIMENSIONS. T. Scott, *Atomic Energy Establishment, Winfrith, Dorchester, Dorset, DT2 8DH, ENGLAND.*
- APPLICATION OF A FRACTIONAL-STEP METHOD TO INCOMPRESSIBLE NAVIER-STOKES EQUATIONS. J. Kim and P. Moin, *Computational Fluid Dynamics Branch, NASA Ames Research Center, Moffett Field, CA 94035 USA.*
- OPTIMIZING A LATTICE QCD SIMULATION PROGRAM. Ph. de Forcrand, D. Lellouch, and C. Roiesnel, *Centre de Physique Theorique de L'Ecole Polytechnique, Plateau de Palaiseau, 91128 Palaiseau, Cedex, FRANCE;* D. Lellouch, *Lab. de Physique Nucleaire et des Hautes Energies, Ecole Polytechnique;* and C. Roiesnel, *CERN—Theory Division—GENEVA.*
- A CROSS VALIDATED BAYESIAN RETRIEVAL ALGORITHM FOR NON-LINEAR REMOTE SENSING EXPERIMENTS. Finbarr O'Sullivan and Grace Wahba, *Department of Statistics, University of California, Berkeley, CA 97420;* and Grace Wahba, *Department of Statistics, University of Wisconsin, Madison, WI 53706, USA.*