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- THE WEAK NONLINEAR INSTABILITY OF EULER EXPLICIT SCHEME FOR THE CONVECTION EQUATION. Han Min Hsia and Yih Nen Jeng, *National Cheng Kung University, Tainan, Taiwan, CHINA*.
- NUMERICAL SOLUTION OF POISSON'S EQUATION WITH ARBITRARILY SHAPED BOUNDARIES USING A DOMAIN DECOMPOSITION AND OVERLAPPING TECHNIQUE. Kazuyoshi Miki and Toshiyuki Takagi, *Energy Research Laboratory, Hitachi, Ltd., Ibaraki, JAPAN*.
- THE USE OF SYMMETRY IN BIFURCATION CALCULATIONS AND ITS APPLICATION TO THE BENARD PROBLEM. K. A. Cliffe and K. H. Winters, *AERE, Harwell, Didcot, ENGLAND*.
- A NUMERICAL COMPARISON OF ONE-DIMENSIONAL FLUID JET MODELS APPLIED TO DROP-ON-DEMAND PRINTING. T. W. Shield and D. B. Bogy, *University of California, Berkeley, California, USA*; F. E. Talke, *IBM Research Laboratory, San Jose, California, USA*.
- ACCURACY OF A FINITE-DIFFERENCE METHOD FOR COMPUTING LAKE CURRENTS. John R. Bennett, *Environmental Research Institute of Michigan, Ann Arbor, Michigan, USA*; Joan E. Campbell, *Great Lakes Environmental Research Laboratory, Ann Arbor, Michigan, USA*.
- ACCURACY OF TRAJECTORY CALCULATION IN A FINITE-DIFFERENCE CIRCULATION MODEL. John R. Bennett, *Environmental Research Institute of Michigan, Ann Arbor, Michigan, USA*; Anne Hutchinson Clites, *Great Lakes Environmental Research Laboratory, Ann Arbor, Michigan, USA*.
- A SIMPLE ADAPTIVE TECHNIQUE FOR NONLINEAR WAVE PROBLEMS. J. M. Sanz-Serna, *Universidad de Valladolid, Valladolid, SPAIN*; I. Christie, *West Virginia University, Morgantown, West Virginia, USA*.
- A PSEUDOSPECTRAL METHOD FOR THE SOLUTION OF THE TWO-DIMENSIONAL NAVIER-STOKES EQUATIONS IN THE PRIMITIVE VARIABLE FORMULATION. Dimitri Hatzivramidis, *ARCOResources Technology, Plano, Texas, USA*; Hwar-Ching Ku, *Illinois Institute of Technology, Chicago, Illinois, USA*.
- ON NONLINEAR INSTABILITIES IN LEAP-FROG FINITE DIFFERENCE SCHEMES. D. M. Sloan, *University of Strathclyde, Glasgow, SCOTLAND*; A. R. Mitchell, *The University, Dundee, SCOTLAND*.
- THE MULTIDIMENSIONAL POSITIVE DEFINITE ADVECTION TRANSPORT ALGORITHM: FURTHER DEVELOPMENT AND APPLICATIONS. Piotr K. Smolarkiewicz and Terry L. Clark, *National Center for Atmospheric Research, Boulder, Colorado, USA*.
- THE USE OF CEBYSEV MIXING TO GENERATE PSEUDO-RANDOM NUMBERS. John M. Hosack, *Colby College, Waterville, Maine, USA*.
- A NUMERICAL MODEL OF THE BALANCE EQUATIONS IN A PERIODIC DOMAIN AND AN EXAMPLE OF BALANCED TURBULENCE. N. J. Norton, J. C. McWilliams, and P. R. Gent, *National Center for Atmospheric Research, Boulder, Colorado, USA*.
- TIME DEPENDENT BOUNDARY CONDITIONS FOR HYPERBOLIC SYSTEMS. Kevin W. Thompson, *NASA Ames Research Center, Moffett Field, California, USA*.
- A SCHEME FOR THE NUMERICAL SOLUTION OF HYPERBOLIC SYSTEMS OF CONSERVATION LAWS. W. D. Henshaw, *California Institute of Technology, Pasadena, California, USA*.
- A FINITE DIFFERENCE SCHEME FOR SOLVING A NON-LINEAR SCHRÖDINGER EQUATION WITH A LINEAR DAMPING TERM. L. S. Peranich, *University of Wisconsin, Madison, Wisconsin, USA*.
- A METHOD FOR INCORPORATING GAUSS' LAW INTO ELECTROMAGNETIC PIC CODES. Barry Marder, *Sandia National Laboratories, Albuquerque, New Mexico, USA*.
- VECTORIZING THE INTERPOLATION ROUTINES OF PARTICLE-IN-CELL CODES. Eric J. Horowitz, *National Magnetic Fusion Energy Computer Center, Lawrence Livermore National Laboratory, Livermore, California, USA*.