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- SIMPLE EXACT TEST FOR WELL-KNOWN MOLECULAR DYNAMICS ALGORITHMS. Giulia De Lorenzi, *Università di Trento, Trent, ITALY*; William G. Hoover, *University of California at Davis-Livermore and Lawrence Livermore National Laboratory, Livermore, CA, USA.*
- A REPRESENTATION AND APPROXIMATION OF THE SOLUTIONS OF HYPERBOLIC DIFFERENTIAL EQUATIONS. S. R. Vatsya, *Whiteshell Nuclear Research Establishment, Pinawa, Manitoba, CANADA.*
- A NOTE ON DISTORTION FUNCTIONS FOR THE STRONG CONSTRAINT METHOD OF NUMERICALLY GENERATING ORTHOGONAL COORDINATE GRIDS. E. P. Ascoli, D. S. Dandy, and L. G. Leal, *California Institute of Technology, Pasadena, CA, USA.*
- ON THE ADVANTAGES OF THE VORTICITY-VELOCITY FORMULATION OF THE EQUATIONS OF FLUID DYNAMICS. Charles G. Speziale, *National Aeronautics and Space Administration, Langley Research Center, Hampton, VA and Georgia Institute of Technology, Atlanta, GA, USA.*
- THE FURTHER STUDY OF A CERTAIN NONLINEAR INTEGRO-DIFFERENTIAL EQUATION. Tao Tang, *University of Leeds, Leeds, UNITED KINGDOM*; Wei Yuan, *Peking University, Beijing, CHINA.*
- FLAME SHEET STARTING ESTIMATES FOR COUNTERFLOW DIFFUSION FLAME PROBLEMS. D. E. Keyes and M. D. Smooke, *Yale University, New Haven, CT, USA.*
- COMPUTATION OF FREE-SURFACE FLOWS. N. S. Asaithambi, *Mississippi State University, Mississippi State, MS, USA.*
- NUMERICAL SOLUTION OF A NONLINEAR HYPERBOLIC EQUATION BY THE RANDOM CHOICE METHOD: CORRIGENDUM. Paul Concus, *University of California, Lawrence Berkeley Laboratory, Berkeley, CA, USA*; Włodzimierz Proskurowski, *University of Southern California, Los Angeles, CA, USA.*
- A NEW FINITE ELEMENT METHOD FOR SPHERICALLY SYMMETRIC RELATIVISTIC COLLAPSE. Patrick J. Mann, *Queen's University at Kingston, Kingston, Ontario, CANADA.*
- ADAPTIVE REMESHING FOR COMPRESSIBLE FLOW COMPUTATIONS. J. Peraire, M. Vahdati, K. Morgan, and O. C. Zienkiewicz, *University College, Swansea, UNITED KINGDOM.*
- A FAST ALGORITHM FOR PARTICLE SIMULATIONS. L. Greengard and V. Rokhlin. *Yale University, New Haven, CT, USA.*
- SOME PRACTICAL CONSIDERATIONS INVOLVING SPECTRAL REPRESENTATIONS OF 3-D PLASMA EQUILIBRIA. S. E. Attenberger, W. A. Houlberg, and S. P. Hirshman, *Oak Ridge National Laboratory, Oak Ridge, TN, USA.*
- MULTIGRID METHOD FOR THE EQUILIBRIUM EQUATIONS OF ELASTICITY USING A COMPACT SCHEME. Shlomo Ta'asan, *NASA Langley Research Center, ICASE, Hampton, VA, USA.*
- TRANSMITTANCE OF A CIRCULAR APERTURE BY AN INTEGRABLE FRACTIONAL-LIKE APPROXIMATION TO $J_0(X)$ FUNCTION. C. L. Ladera and P. Martin, *Universidad Simón Bolívar, Caracas, VENEZUELA.*
- SOLUTION OF THE EULER EQUATIONS FOR TRANSONIC FLOW OVER A LIFTING AEROFOIL—THE BERNOULLI FORMULATION (ROE-LYTTON METHOD). C. C. Lytton. *Royal Aircraft Establishment, Farnborough, Hants, ENGLAND.*
- A CONVECTIVE FLUX LIMITER FOR NONLAGRANGIAN COMPUTATIONAL FLUID DYNAMICS. Lawrence D. Cloutman, *University of California, Lawrence Livermore National Laboratory, Livermore, CA, USA.*
- A DIAGONAL ALGORITHM FOR THE METHOD OF PSEUDOCOMPRESSIBILITY. Stuart E. Rogers and Dochan Kwak, *NASA Ames Research Center, Moffett Field, CA, USA*; James L. C. Chang, *Rockwell International, Canoga Park, CA, USA.*