

List of Forthcoming Articles

FULLY MULTIDIMENSIONAL FLUX-CORRECTED TRANSPORT ALGORITHMS FOR FLUIDS. Steven T. Zalesak. *Code 6780, Naval Research Laboratory, 4555 Overlook Avenue, S. W., Washington, DC 20375, USA.*

A VECTOR PERTURBATION SERIES BASED UPON A REPRESENTATION IN A FINITE BANACH SPACE. W. R. Moreau. *Department of Physics, University of Canterbury, Private Bag, Christchurch, NEW ZEALAND.*

THE LAGRANGIAN SOLUTION OF TRANSIENT PROBLEMS IN HYDRODYNAMICS USING A TRIANGULAR MESH. Martin J. Fritts and J. P. Boris. *Code 6020, Laboratory for Computational Physics, Naval Research Laboratory, Washington, DC 20375, USA.*

AN IMPROVED FORM OF THE ARTIFICIAL DIFFUSION PARAMETER- χ . K. Srinivas. *Aerodynamics Division, National Aeronautical Laboratory, Bangalore-560037, INDIA,* and J. Gururaja. *Department of Science and Technology, New Delhi-110029, INDIA.*

DETERMINATION OF LARGE ORDER SPHERICAL COULOMB FUNCTIONS WITH AN ARGUMENT LYING BETWEEN THE ORIGIN AND THE COMMON POINT OF INFLECTION. Pedro de A. P. Martins. *Departamento de Fisica, Universidade de Coimbra, Coimbra, PORTUGAL.*

MIXED FINITE ELEMENTS METHODS FOR INCOMPRESSIBLE FLOW PROBLEMS. M. Fortin. *Department of Mathematics, University of Laval, Quebec, CANADA GLK 7P4;* and F. THOMASSET. *IRIA-LABORIA, Rocquencourt, 78 Le Chesnay, FRANCE.*

ON THE NUMERICAL SOLUTION OF TWO-DIMENSIONAL POTENTIAL PROBLEMS BY AN IMPROVED BOUNDARY INTEGRAL EQUATION METHOD. Graeme Fairweather. *Department of Mathematics, University of Kentucky, Lexington, KY 40506, USA;* and Frank J. Rizzo and David J. Shippy. *Department of Engineering Mechanics, University of Kentucky, Lexington, KY 40506, USA;* and Yensen S. Wu. *Department of Theoretical and Applied Mechanics, University of Illinois, Urbana, IL 61801, USA.*

THE LAMINAR BOUNDARY LAYERS ON A CIRCULAR CYLINDER STARTED IMPULSIVELY FROM REST. Tuncer Cebeci. *Department of Mechanical Engineering, California State University, Long Beach, CA 90840, USA.*

THE "CLOUD IN CELL" TECHNIQUE APPLIED TO THE ROLL UP OF VORTEX SHEETS. Gregory R. Baker. *Department of Applied Mathematics, California Institute of Technology, Pasadena, CA 91125, USA.*

REMARKS ON THE SOLUTION OF POISSON'S EQUATION FOR ISOLATED SYSTEMS. J. W. Eastwood and D. R. K. Brownrigg. *Department of Computer Science, The University of Reading, Whiteknights Park, Reading, Berkshire RG6 2AX, ENGLAND.*

STABILITY ANALYSIS FOR MACCORMACK'S TIME-SPLITTING TECHNIQUE APPLIED TO A MODEL CONDUCTION PROBLEM. Everett Jones. *Department of Aerospace Engineering, University of Maryland, College Park, MD 20742, USA.*

AN ALGORITHM FOR THE EVALUATION OF THE COMPLEX AIRY FUNCTIONS. Z. Schulten. *Max-Planck-Institut für Biophysikalische Chemie, D-3400 Göttingen, Federal Republic of Germany*; and D. G. M. Anderson. *Committee Applied Mathematics, Harvard University, Cambridge, MA, USA*; and Roy G. Gordon. *Department of Chemistry, Harvard University, Cambridge, MA, USA.*

MONTE CARLO CALCULATION OF THE RADIAL DISTRIBUTION FUNCTION OF QUANTUM HARD SPHERES AT FINITE TEMPERATURES. P. A. Whitlock and M. H. Kalos. *New York University, Courant Institute of Mathematical Sciences, 251 Mercer Street, New York, NY 10012, USA.*

FINITE ELEMENT ANALYSIS OF INCOMPRESSIBLE VISCOUS FLOWS BY THE PENALTY FUNCTION FORMULATION. Thomas J. R. Hughes, Wing Kam Liu and Alec Brooks. *Division of Engineering and Applied Science, California Institute of Technology, Pasadena, CA 91125, USA.*