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SOLUTION OF NONLINEAR ELLIPTIC EQUATIONS WITH BOUNDARY SINGULARITIES BY AN INTEGRAL EQUATION METHOD. M. A. Kelmanson, *Department of Applied Mathematical Studies, University of Leeds, Leeds LS2 9JT, ENGLAND.*

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A QUADRATURE SCHEME FOR MATRIX ELEMENTS BETWEEN NUMERICAL WAVEFUNCTIONS. Jeremy M. Hutson, *University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, ENGLAND.*

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A TWO DIMENSIONAL DISPERSION ANALYSIS OF SELECTED METHODS FOR SOLVING THE LINEARIZED SHALLOW WATER EQUATIONS. M. G. G. Foreman, *Institute of Ocean Sciences, P. O. Box 6000, Sidney, BC V8L 4B2, CANADA.*

A UNIFIED MODEL FOR THE EVOLUTION OF NONLINEAR WATER WAVES. James M. Witting, *Laboratory for Computational Physics, Code 4040, Naval Research Laboratory, Washington, DC 20375, USA.*

A CONSERVATION LAW RELATED TO KELVIN'S CIRCULATION THEOREM. B. E. McDonald, *Naval Ocean Research and Development Activity, NSTL Station, MS 39529*; and J. M. Witting, *Code 4040, Laboratory for Computational Physics, Naval Research Laboratory, Washington, DC 20375, USA.*

A ROTATIONALLY BIASED UPWIND DIFFERENCE SCHEME FOR THE EULER EQUATIONS. Stephen F. Davis, *ICASE, Mail Stop 132C, NASA Langley Research Center, Hampton, Virginia 23665, USA.*

A PSEUDOSPECTRAL ALGORITHM FOR THREE DIMENSIONAL MAGNETOHYDRODYNAMIC SIMULATION. D. D. Schnack, D. C. Baxter, *Applied Plasma Physics and Technology Division, Science Applications, Inc., La Jolla, California 92038*; and E. J. Caramana, *Los Alamos National Laboratory, University of California, Los Alamos, New Mexico 87545, USA.*

SMOOTHING AND SPATIAL GRID EFFECTS IN IMPLICIT PARTICLE SIMULATION. Bruce I. Cohen, A. Bruce Langdon and Alex Friedman, *Lawrence Livermore National Laboratory, University of California, Livermore, California 94550, USA.*

GRAPHIC DISPLAYS OF GRAVITATIONAL INITIAL DATA. Jeffrey M. Bowen, *Department of Physics, Bucknell University, Lewisburg, Pennsylvania 17837, USA.*

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