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THE CHEBYCHEV METHOD FOR SOLVING NONSELF-ADJOINT ELLIPTIC EQUATIONS ON A VECTOR COMPUTER. B. E. McDonald. *Code 6780, U.S. Naval Research Laboratory, Washington, DC 20375, USA.*

NUMERICAL INTEGRATION OF THE LANGEVIN EQUATION: MONTE CARLO SIMULATION. Donald L. Ermak. *L-Division, Computational Physics Group, Lawrence Livermore Laboratory, Livermore, CA 94550, USA.*

TRUNCATION ERROR TERMS IN THE KINETIC ENERGY CALCULATION IN THE HELP ALGORITHM AND THEIR CONSEQUENCES. James A. Schmitt. *ATTN: DRDAR-BLB, U.S. Army Ballistic Research Laboratory, Aberdeen Proving Ground, MD 21005, USA.*

NONLINEAR, TWO-DIMENSIONAL MAGNETOHYDRODYNAMIC CALCULATIONS. D. Schnack and J. Killeen. *National Magnetic Fusion Energy Computer Center, Lawrence Livermore Laboratory, Livermore, CA 94550.*

ON THE USE OF PRECONDITIONED CONJUGATE GRADIENT METHODS FOR RED-BLACK ORDERED FIVE-POINT DIFFERENCE SCHEMES. O. Axelsson and Ivar Gustafsson. *Department of Computer Sciences, Chalmers University of Technology, Fack, S-402 20 Göteborg, SWEDEN.*

THE ACCURACY, EFFICIENCY AND STABILITY OF THREE NUMERICAL MODELS WITH APPLICATION TO OPEN OCEAN PROBLEMS. D. B. Haidvogel. *Clark Laboratory, Woods Hole Oceanographic Institution, Woods Hole, MA 02543; A. R. Robinson and E. E. Schulmann. Division of Applied Sciences, Harvard University, Cambridge, MA 02138, USA.*

A PARTICLE-FLUID NUMERICAL MODEL FOR LIQUID SPRAYS. John K. Dukowicz. *Theoretical Division, Group T-3, Los Alamos Scientific Laboratory, University of California, Los Alamos, NM 87545, USA.*

A VORTEX METHOD FOR BLOOD FLOW THROUGH HEART VALVES. M. F. McCracken and C. S. Peskin. *Department of Mathematics, Indiana University, Bloomington, IN 47401, USA.*

FINITE ELEMENTS INCORPORATING CHARACTERISTICS FOR ONE-DIMENSIONAL DIFFUSION-CONVECTION EQUATION. Erol Varoğlu and W. D. Liam Finn. *Faculty of Graduate Studies, Civil/Mechanical Engineering Bldg., Room 2006, The University of British Columbia, Vancouver, B.C., V6T 1W5, CANADA.*

THE NUMERICAL SOLUTION OF THE UNSTEADY EXPANSION OF A GAS INTO A NEAR VACUUM. R. McLaughlin, *Department of Mathematics and Statistics, Sheffield City Polytechnic, Sheffield, S1 1WB, ENGLAND.*

OPTIMAL VARIATIONAL APPROXIMATIONS TO RENORMALIZATION GROUPS. II. DETERMINATION OF OPTIMAL PARAMETERS. Michael N. Barber. *Department of Physics, University of Washington, Seattle, WA 98195, USA.*

ADDING LIMITED COMPRESSIBILITY TO INCOMPRESSIBLE HYDROCODES. C. W. Hirt and B. D. Nichols. *Theoretical Division, Group T-3, Los Alamos Scientific Laboratory University of California, Los Alamos, NM 87545, USA.*

NUMERICAL CODES FOR CYLINDRICAL GENERAL RELATIVISTIC SYSTEMS. Tsvi Piran. *Center for Relativity, University of Texas, Austin, TX 78712, USA.*