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- CALCULATION OF THREE-DIMENSIONAL STATIONARY SUPERSONIC FLOW FIELDS BY APPLYING THE "PROGONKA" PROCESS TO A CONSERVATIVE FORMULATION OF THE GOVERNING EQUATIONS. C. Weiland. *DFVLR, Postfach 90 60 48, 5000 Köln 90, Linder Höhe, Germany.*
- CALCULATION OF TRANSIENT BOILING FLOW IN CHANNELS. H. Bruce Stewart. *Department of Nuclear Engineering, Room 12-153, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139.*
- A MULTI-STEP TECHNIQUE WITH IMPLICIT DIFFERENCE SCHEMES FOR CALCULATING TWO- OR THREE-DIMENSIONAL CAVITY FLOWS. Katuhiko Goda. *Information Systems Laboratory, Toshiba Research and Development Center, Komukai, Kawasaki, 210, Japan.*
- EIGENVECTOR EIGENVALUE THEORY. THE DIAGONALIZATION OF SYMMETRIC MATRICES USING A LEAST-SQUARES OPTIMIZED THRESHOLD METHOD. Robert R. Birge and Lynn M. Hubbard. *Department of Chemistry, University of California, Riverside, CA 92521.*
- DYNAMICAL GRID METHOD FOR TIME DEPENDENT SIMULATIONS OF AXISYMMETRIC INSTABILITIES IN TOKAMAKS. S. C. Jardin, J. L. Johnson*, J. M. Greene and R. C. Grimm. *Plasma Physics Laboratory, Princeton University, Princeton, NJ 08540.*
- A SLIGHTLY MODIFIED PRÜFER TRANSFORMATION USEFUL FOR CALCULATING STURM-LIOUVILLE EIGENVALUES. Paul B. Bailey. *Applied Mathematics Division 5121, Sandia Laboratories, Albuquerque, NM 87115.*
- ON COMPUTING THE INTEGRAL OF GLOW CURVE THEORY. T. R. Jenkins. *Department 52-56, Building 201, Lockheed Palo Alto Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304.*
- ALGORITHM FOR THE NUMERICAL EVALUATION OF THE n -PARTICLE RELATIVISTIC PHASE SPACE INTEGRAL IN INVARIANT VARIABLES. Richard A. Morrow. *Department of Physics and Astronomy, University of Maine, Bennett Hall, Orono, ME 04473.*
- PETIT AND GRAND ENSEMBLE MONTE CARLO CALCULATIONS OF THE THERMODYNAMICS OF THE LATTICE GAS. G. E. Murch and R. J. Thorn. *Chemistry Division, Argonne National Laboratory, Argonne, IL 60439.*
- COMPUTER ALGORITHMS AND PROGRAMS FOR PERMANENT MULTIPOLE AND INDUCED DIPOLE INTERACTION ENERGIES AND DIPOLE VECTORS IN CRYSTALS. Mihaly Mezei and Edwin S. Campbell. *Department of Chemistry, New York University, 4 Washington Place, Room 514, New York, NY 10003.*
- CONTOUR DYNAMICS FOR THE EULER EQUATIONS IN TWO DIMENSIONS. Norman J. Zabusky. *Department of Mathematics and Statistics, University of Pittsburgh, Pittsburgh, PA 15260;* and M. H. Hughes and K. V. Roberts. *Culham Laboratory, Abingdon, Oxon., OX14 3DB, England.*

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- A MULTI-DIMENSIONAL QUASI-NEUTRAL PLASMA SIMULATION MODEL. D. W. Hewett and C. W. Nielson. *Los Alamos Scientific Laboratory, University of California, P.O. Box 1663, Los Alamos, NM 87545.*
- TRACES OF HIGH ENERGY PROCESSES IN STRONG MAGNETIC FIELDS, Raanan Liebermann. *Laboratory for Advanced Studies, 100 York Street, New Haven, CT 06511.*
- BOUNDARY-FITTED COORDINATES FOR ACCURATE NUMERICAL SOLUTION OF MULTI-BODY FLOW PROBLEMS. H. J. Haussling. *Numerical Fluid Dynamics Branch (1843), Computations, Mathematics and Logistics Department, David W. Taylor Naval Ship Research and Development Center, Bethesda, MD 20084.*
- THE ACCURATE SOLUTION OF POISSON'S EQUATION BY EXPANSION IN CHEBYSHEV POLYNOMIALS. Dale B. Haidvogel. *Center for Earth and Planetary Physics, Pierce Hall, Harvard University, Cambridge, MA 02138;* and Thomas Zang. *ICASE, NASA Langley Research Center, Hampton, VA 23665.*
- NUMERICAL SOLUTION OF A NONLINEAR HYPERBOLIC EQUATION BY THE RANDOM CHOICE METHOD. Paul Concus and Wlodzimierz Proskurowski. *Lawrence Berkeley Laboratory, University of California, Berkeley, CA 94720.*
- ANALYSIS OF THE TIME INTEGRATION IN PLASMA SIMULATION. A. Bruce Langdon. *Lawrence Livermore Laboratory, L-477, University of California, P.O. Box 808, Livermore, CA 94550.*