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NUMERICAL SOLUTION OF THE HELMHOLTZ EQUATION FOR TWO DIMENSIONAL POLYGONAL REGIONS. Robert J. Riddell, Jr. *Lawrence Berkeley Laboratory, University of California, Berkeley, CA 94720, USA.*

BOUNDARY-DISTRIBUTION SOLUTION OF THE HELMHOLTZ EQUATION FOR A REGION WITH CORNERS. Robert J. Riddell, Jr. *Lawrence Berkeley Laboratory, University of California, Berkeley, CA 94720, USA.*

GALERKIN METHODS APPLIED TO SOME MODEL EQUATIONS FOR NON-LINEAR DISPERSIVE WAVES. M. E. Alexander. *University Observatory, Buchanan Gardens, St. Andrews, Fife KY16 9LZ, Scotland,* and J. Ll. Morris. *Computer Science Department, University of Waterloo, Waterloo, Ontario, CANADA.*

AUTOMATED CALCULATION OF PARAMETRIC INSTABILITIES IN FLUID PLASMA. Bernard Rosen. *Department of Physics, Stevens Institute of Technology, Castle Point Station, Hoboken, NJ 07030, USA,* and Herbert Tesser. *Department of Physics, Pratt Institute, Brooklyn, NY 11205, USA.*

BOUNDARY CONDITIONS FOR TIME DEPENDENT PROBLEMS WITH AN ARTIFICIAL BOUNDARY. Bertil Gustafsson and Heinz-Otto Kreiss. *Department of Computer Sciences, University of Uppsala, Sturegatan 4B 2tr, Uppsala, SWEDEN.*

COMPUTER MODEL FOR BOUNDED PLASMA. Viktor K. Decyk and John M. Dawson. *Department of Physics, University of California, Los Angeles, CA 90024, USA.*

A NUMERICAL SOLUTION OF A MODEL FOR A SUPERCONDUCTOR FIELD PROBLEM. L. E. Alsop, A. S. Goodman, F. G. Gustavson and W. L. Miranker. *Mathematical Sciences Department, IBM Thomas J. Watson Research Center, P. O. Box 218, Yorktown Heights, NY 10598, USA.*

THE DETERMINATION OF INCOMPLETE GAMMA FUNCTIONS THROUGH ANALYTIC INTEGRATION. Riho Terras. *Department of Mathematics, University of California, San Diego, P. O. Box 109, La Jolla, CA 92037, USA.*

A COMPUTATIONAL FLUID DYNAMIC TECHNIQUE VALID AT THE CENTERLINE FOR NON-AXISYMMETRIC PROBLEMS IN CYLINDRICAL COORDINATES. Michael D. Griffin. *Jet Propulsion Laboratory, 4800 Oak Grove Drive, T-1201, Pasadena, CA 91103, USA,* and Everett Jones and John D. Anderson, Jr. *Department of Aerospace Engineering, University of Maryland, College Park, MD 20742, USA.*