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USE OF GAUSSIAN CONVERGENCE FACTORS IN THE NUMERICAL EVALUATION OF SLOWLY CONVERGING INTEGRALS. Robert Lugannani and Stephen Rice, *Department of Electrical Engineering and Computer Sciences, University of California, San Diego, La Jolla, California 92093, USA.*

EXPRESSIONS FOR THE BEHAVIOR OF A FOURIER TRANSFORM NEAR ITS SINGULARITIES. Robert Lugannani and Stephen Rice, *Department of Electrical Engineering and Computer Sciences, University of California, San Diego, La Jolla, California 92093, USA.*

IMPROVING THE CONVERGENCE OF SOLUTIONS TO THE FREDHOLM INTEGRAL EQUATION OF THE FIRST KIND. Maurice V. Barnhill III and Craig Russ, *Department of Physics, University of Delaware, Newark, Delaware 19711, USA.*

DETERMINATION OF ADSORPTION ENERGY DISTRIBUTION BY REGULARIZATION AND A CHARACTERIZATION OF CERTAIN ADSORPTION ISOTHERMS. Paul H. Merz, *Chevron Research Company, P. O. Box 1627, Richmond, California 94802, USA.*

A METHOD FOR AUTOMATING THE CONSTRUCTION OF IRREGULAR COMPUTATIONAL GRIDS FOR STORM SURGE FORECAST MODELS. W. C. Thacker, A. Gonzalez, and G. E. Putland, *Sea-Air Interaction Laboratory, NOAA/AOML, 15 Rickenbacker Causeway, Miami, Florida 33149, USA.*

A GRAVITY-WAVE PROBLEM WITH THE UPSTREAM DIFFERENCE METHOD. Philip S. Brown, Jr., and Joseph P. Pandolfo, *The Center for the Environment and Man, Inc., 275 Windsor Street, Hartford, Connecticut 06120, USA.*

AN ARTIFICIAL ENERGY METHOD FOR CALCULATING FLOWS WITH SHOCKS. Milton E. Rose, *ICASE, Mail Stop 132 C, NASA Langley Research Center, Hampton, Virginia 23665, USA.*

A GEODESIC FINITE-DIFFERENCE METHOD FOR CURVED DOMAINS: SIMULATIONS OF TIDAL MOTION ON A SPHERE. W. C. Thacker, *Sea-Air Interaction Laboratory, NOAA 1/2 AOML, 15 Rickenbacker Causeway, Miami, Florida 33149, USA.*

AN ITERATIVE METRIC METHOD FOR SOLVING THE INVERSE TOKAMAK EQUILIBRIUM PROBLEM. J. DeLucia, S. C. Jardin, and A. M. M. Todd, *Plasma Physics Laboratory, Princeton University, Princeton, New Jersey 08544, USA.*

A PSEUDO-UPSTREAM DIFFERENCING SCHEME FOR ADVECTION. Huw C. Davies, *Department of Meteorology, University of Reading, 2 Earley Gate, Reading RG6 2AU, ENGLAND.*

MODELING PROSTHETIC HEART VALVES FOR NUMERICAL ANALYSIS OF BLOOD FLOW IN THE HEART. Charles S. Peskin and David M. McQueen, *Courant Institute of Mathematical Sciences, 251 Mercer Street, New York, New York 10012, USA.*

ADAPTIVE ESTIMATION PROCEDURES FOR MULTI-PARAMETER MONTE CARLO COMPUTATIONS. Donald L. Hitzl, *Lockheed Palo Alto Research Laboratory, Dept. 52-56, Bldg. 201, 3251 Hanover Street, Palo Alto, California 94304;* and Frederick H. Maltz, *Naval Underwater Systems Center, Code 3211, New London, Connecticut 06320, USA.*

EVALUATION OF INFINITE SERIES BY USE OF CONTINUED FRACTION EXPANSIONS: A NUMERICAL STUDY. P. Hänggi, *Department of Chemistry, University of California at San Diego, La Jolla, California 92093, USA;* F. Roesel and D. Trautmann, *Institut für theoretische Physik der Universität Basel, CH-4056 Basel, SWITZERLAND.*