

(Continued from back cover)

Reviews and Descriptions of Tables and Books	345
Werner, Wuytack, Ng and Bünger, Editors	7
Table Errata	346
Magnus and Oberhettinger	603
Salzer and Levine	604
Corrigenda	347
Lax and Agrawal, Keast, Fairweather and Diaz	
Supplement to "Higher Order Multi-Grid Methods" by Steve Schaffer.....	S1

No microfiche supplement in this issue

MATHEMATICS OF COMPUTATION
TABLE OF CONTENTS

July 1984

M. G. Crandall and P. L. Lions , Two Approximations of Solutions of Hamilton-Jacobi Equations	1
J. M. Sanz-Serna , Methods for the Numerical Solution of the Nonlinear Schroedinger Equation	21
A. Bendali , Numerical Analysis of the Exterior Boundary Value Problem for the Time-Harmonic Maxwell Equations by a Boundary Finite Element Method. Part 1: The Continuous Problem	29
A. Bendali , Numerical Analysis of the Exterior Boundary Value Problem for the Time-Harmonic Maxwell Equations by a Boundary Finite Element Method. Part 2. The Discrete Problem	47
D. Goldfarb and Ph. L. Toint , Optimal Estimation of Jacobian and Hessian Matrices That Arise in Finite Difference Calculations	69
Steve Schaffer , Higher Order Multi-Grid Methods	89
Ciprian Foias and Roger Temam , Determination of the Solutions of the Navier-Stokes Equations By a Set of Nodal Values	117
Eric Schechter , Sharp Convergence Rates for Nonlinear Product Formulas ..	135
U. Ascher and R. Weiss , Collocation for Singular Perturbation Problems II: Linear First Order Systems Without Turning Points	157
P. Onumanyi and E. L. Ortiz , Numerical Solution of Stiff and Singularly Perturbed Boundary Value Problems With a Segmented-Adaptive Formulation of the Tau Method	189
Wilhelm Werner , Polynomial Interpolation: Lagrange versus Newton	205
D. S. Lubinsky and P. Rabinowitz , Rates of Convergence of Gaussian Quadrature for Singular Integrands	219
Norbert H. J. Lacroix , On Common Zeros of Legendre's Associated Functions	243
Ayşe Kiper , Fourier Series Coefficients for Powers of the Jacobian Elliptic Functions	247
J. Wróblewski , A Nonaveraging Set of Integers With a Large Sum of Reciprocals	261
Graeme L. Cohen , Primitive α -Abundant Numbers	263
A. Rotkiewicz , On the Congruence $2^{n-2} \equiv 1 \pmod{n}$	271
Fred H. Hao and Charles J. Parry , Generalized Bernoulli Numbers and m -Regular Primes	273
C. P. Schnorr and H. W. Lenstra, Jr. , A Monte Carlo Factoring Algorithm With Linear Storage	289
Duncan A. Buell , The Expectation of Success Using a Monte Carlo Factoring Method—Some Statistics on Quadratic Class Numbers	313
William W. Adams , Splitting of Quartic Polynomials	329

(Continued on inside back cover)