VOLUME XXVIII

INDEX OF PAPERS BY AUTHORS

Author	*Title*	*Page*
ABARBANEL, S.	See: GOLDBERG, M. & ABARBANEL, S.	413
ALSPAUGH, DALE W.	The Application of Invariant Imbedding to the Solution of Linear Two-Point Boundary Value Problems on an Infinite Interval	1005
ALTER, RONALD & CURTZ, THADDEUS B.	A Note on Congruent Numbers	303
AMOS, D. E.	Computation of Modified Bessel Functions and Their Ratios	239
ANDERSSEN, R. S. & OMODEI, B. J.	On the Stability of Uniformly Asymptotically Diagonal Systems	719
ANGELL, I. O. & GODWIN, H. J.	Some Factorizations of $10^n \pm 1$	307
BAKER, H. H., DEWDNEY, A. K. & SZILARD, A. L.	Generating the Nine-Point Graphs	833
BEARD, JACOB T. B., JR.	Computing in GF(q)	1159
BEARD, JACOB T. B., JR. & WEST, KAREN I.	Some Primitive Polynomials of the Third Kind	1166
BEARD, JACOB T. B., JR. & WEST, KAREN I.	Factorization Tables for $x^n - 1$ Over GF(q)	1167
BEAUDOIN, Y.	See: BLACKBURN, J. A. & BEAUDOIN, Y.	573
BELFORD, GENEVA G.	Vector-Valued Approximation and Its Application to Fitting Exponential Decay Curves	179
BELFORD, GENEVA G. & KAUFMAN, E. H., JR.	An Application of Approximation Theory to an Error Estimate in Linear Algebra	711
BENKOSKI, S. J. & ERDÖS, P.	On Weird and Pseudoperfect Numbers	617
BEYER, W. A. & WATERMAN, M. S.	Error Analysis of a Computation of Euler's Constant	599
BLACKBURN, J. A. & BEAUDOIN, Y.	A Note on Chambers' Method	573
BLAIR, J. M.	Rational Chebyshev Approximations for the Modified Bessel Functions $I_0(x)$ and $I_1(x)$	581
BOGGS, PAUL T.	A New Algorithm for the Chebyshev Solution of Overdetermined Linear Systems	203
BRANDERS, MARIA	See: PIESSENS, ROBERT & BRANDERS, MARIA	135
BREIG, W. F. & CROSBIE, A. L.	Numerical Computation of a Generalized Exponential Integral Function	575
BRENT, RICHARD P.	The Distribution of Small Gaps Between Successive Primes	315
BREZINSKI, CLAUDE & RIEU, ALAIN C.	The Solution of Systems of Equations Using the ϵ-Algorithm and an Application to Boundary-Value Problems	731
BRUNNER, H.	Global Solution of the Generalized Abel Integral Equation by Implicit Interpolation	61
BRUNNER, H.	Recursive Collocation for the Numerical Solution of Stiff Ordinary Differential Equations	475

Author	*Title*	*Page*
BUNCH, JAMES R. & HOPCROFT, JOHN E.	Triangular Factorization and Inversion by Fast Matrix Multiplication	231
BUSCHMAN, R. G.	Finite Sum Representations for Partial Derivatives of Special Functions with Respect to Parameters	817
CARASSO, ALFRED	A Least Squares Procedure for the Wave Equation	757
CHATTERJEE, GURUDAS	Negative Integral Powers of a Bidiagonal Matrix	713
COLLINS, GEORGE E. & HOROWITZ, ELLIS	The Minimum Root Separation of a Polynomial	589
CROSBIE, A. L.	See: BREIG, W. F. & CROSBIE, A. L.	575
CURTZ, THADDEUS B.	See: ALTER, RONALD & CURTZ, THADDEUS B.	303
DANIEL, JAMES W.	See: DE BOOR, C. & DANIEL, JAMES W.	565
DE BOOR, C. & DANIEL, JAMES W.	Splines with Nonnegative B-Spline Coefficients	565
DE HOOG, FRANK	See: WILLIAMS, JACK & DE HOOG, FRANK	163
DENNIS, J. E., JR. & MORÉ, JORGE J.	A Characterization of Superlinear Convergence and its Application to Quasi-Newton Methods	549
DESHPANDE, V. L.	Confluent Expansions for Functions of Two Variables	605
DEWDNEY, A. K.	See: BAKER, H. H., DEWDNEY, A. K. & SZILARD, A. L.	833
DIAZ, J. B. & OSLER, T. J.	Differences of Fractional Order	185
DRESSLER, ROBERT E., MĄKOWSKI, ANDRZEJ & PARKER, THOMAS	Sums of Distinct Primes from Congruence Classes Modulo 12	651
DRESSLER, ROBERT E. & PARKER, THOMAS	12,758	313
DUFF, I. S.	On the Number of Nonzeros Added when Gaussian Elimination is Performed on Sparse Random Matrices	219
ECKLUND, E. F., JR., ERDÖS, P. & SELFRIDGE, J. L.	A New Function Associated with the Prime Factors of $\binom{n}{k}$	647
ERDÖS, P.	See: BENKOSKI, S. J. & ERDÖS, P.	617
ERDÖS, P.	See: ECKLUND, E. F., JR., ERDÖS, P. & SELFRIDGE, J. L.	647
FALK, RICHARD S.	Error Estimates for the Approximation of a Class of Variational Inequalities	963
FEIX, M. R.	See: NADEAU, A., GUYARD, J. & FEIX, M. R.	1057
FETTIS, HENRY E.	A Stable Algorithm for Computing the Inverse Error Function in the "Tail-End" Region	585
FISCHER, D., GOLUB, G., HALD, O., LEIVA, C. & WIDLUND, O.	On Fourier-Toeplitz Methods for Separable Elliptic Problems	349
FITZGERALD, CARL H.	Optimal Indexing of the Vertices of Graphs	825
FLEMING, GARY CHARLES	See: SNIDER, ARTHUR DAVID & FLEMING, GARY CHARLES	465
FLETCHER, R. & POWELL, M. J. D.	On the Modification of LDL^T Factorizations	1067
FLOOD, RICHARD	See: WATANABE, DANIEL S. & FLOOD, RICHARD	27
FRANKLIN, JOEL N.	On Tikhonov's Method for Ill-Posed Problems	889
GAUTSCHI, WALTER & YANAGIWARA, HIROKI	On Chebyshev-Type Quadratures	125
GEKELER, ECKART	On the Eigenvectors of a Finite-Difference Approximation to the Sturm-Liouville Eigenvalue Problem	973
GENTLEMAN, W. M. & JOHNSON, S. C.	The Evaluation of Determinants by Expansion by Minors and the General Problem of Substitution	543

Author	*Title*	*Page*
GILL, P. E., GOLUB, G. H., MURRAY, W. & SAUNDERS, M. A.	Methods for Modifying Matrix Factorizations	505
GILLARD, P.	See: LAL, M. & GILLARD, P.	561
GLASSER, M. L.	Reduction Formulas for Multiple Series	265
GLASSER, M. L.	Some Definite Integrals of the Product of Two Bessel Functions of the Second Kind: (Order Zero)	613
GODWIN, H. J.	See:ANGELL, I. O. & GODWIN, H. J.	307
GOLDBERG, M. & ABARBANEL, S.	Stable Approximations for Hyperbolic Systems with Moving Internal Boundary Conditions	413
GOLDSTEIN, MARVIN J.	Reduction of the Eigenproblem for Hermitian Persymmetric Matrices	237
GOLDSTEIN, MARVIN J.	Reduction of the Pseudo Inverse of a Hermitian Persymmetric Matrix	715
GOLUB, G.	See: FISCHER, D., GOLUB, G., HALD, O., LEIVA, C. & WIDLUND, O.	349
GOLUB, G. H.	See: GILL, P. E., GOLUB, G. H., MURRAY, W. & SAUNDERS, M. A.	505
GUYARD, J.	See: NADEAU, A., GUYARD, J. & FEIX, M. R.	1057
HALD, O.	See: FISCHER, D., GOLUB, G., HALD, O., LEIVA, C. & WIDLUND, O.	349
HENDY, M. D.	Applications of a Continued Fraction Algorithm to Some Class Number Problems	267
HINATA, MASAHIRO, SHIMASAKI, MASAAKI & KIYONO, TAKESHI	Numerical Solution of Plateau's Problem by a Finite Element Method	45
HOPCROFT, JOHN E.	See: BUNCH, JAMES R. & HOPCROFT, JOHN E.	231
HOROWITZ, ELLIS	See: COLLINS, GEORGE E. & HOROWITZ, ELLIS	589
HUDDLESTON, R. E.	On the Conditional Equivalence of Two Starting Methods for the Second Algorithm of Remez	569
HUNT, DAVID C.	The Character Table of an Eight-Dimensional Orthogonal Group	659
HUNT, DAVID C.	The Character Table of Fischer's Simple Group, $M(23)$	660
JAIN, M. K.	See: KUMAR, RAVINDRA & JAIN, M. K.	499
JOHNSON, C. G. L.	Estimates Near Plane Portions of the Boundary for Discrete Elliptic Boundary Problems	909
JOHNSON, S. C.	See: GENTLEMEN, W. M. & JOHNSON, S. C.	543
JOHNSON, WELLS	Irregular Prime Divisors of the Bernoulli Numbers	653
JOHNSTON, R. L. & PAL, S. K.	Numerical Solution of Lundquist Equations of Magnetohydrodynamics	33
JONES, WILLIAM B. & THRON, W. J.	Numerical Stability in Evaluating Continued Fractions	795
KAUFMAN, E. H., JR.	See: BELFORD, GENEVA G. & KAUFMAN, E. H., JR.	711
KING, J. THOMAS	Semidiscrete Least-Squares Methods for Second Order Parabolic Problems with Nonhomogeneous Data	405
KIYONO, TAKESHI	See: HINATA, MASAHIRO, SHIMASAKI, MASAAKI & KIYONO, TAKESHI	45
KUMAR, RAVINDRA	A Class of Quadrature Formulas	769
KUMAR, RAVINDRA & JAIN, M. K.	Quadrature Formulas for Semi-Infinite Integrals	499
LAKEIN, RICHARD B.	Computation of the Ideal Class Group of Certain Complex Quartic Fields	839

Author	*Title*	*Page*
LAL, MOHAN	Iterates of the Unitary Totient Function	301
LAL, M. & GILLARD, P.	Evaluation of a Constant Associated with a Parking Problem	561
LEHMAN, R. SHERMAN	Factoring Large Integers	637
LEHMER, D. H. & LEHMER, EMMA	A New Factorization Technique Using Quadratic Forms	625
LEHMER, EMMA	See: LEHMER, D. H. & LEHMER, EMMA	625
LEIVA, C.	See: FISCHER, D., GOLUB, G., HALD, O., LEIVA, C. & WIDLUND, O.	349
LENTINI, M. & PEREYRA, V.	A Variable Order, Finite-Difference Method for Nonlinear Multipoint Boundary Value Problems	981
LINIGER, W.	See: SARKANY, E. F. & LINIGER, W.	1035
LYNESS, J. N.	Computational Techniques Based on the Lanczos Representation	81
MĄKOWSKI, ANDRZEJ	See: DRESSLER, ROBERT E., MĄKOWSKI, ANDRZEJ & PARKER, THOMAS	651
MCCABE, J. H.	A Continued Fraction Expansion, with a Truncation Error Estimate, for Dawson's Integral	811
MCDANIEL, WAYNE L.	On Multiple Prime Divisors of Cyclotomic Polynomials	847
MIGNOTTE, M.	An Inequality About Factors of Polynomials	1153
MIRANKER, W. L. & MORREEUW, J. P.	Semianalytic Numerical Studies of Turning Points Arising in Stiff Boundary Value Problems	1017
MORÉ, JORGE J.	See: DENNIS, J. E., JR. & MORÉ, JORGE J.	549
MORREEUW, J. P.	See: MIRANKER, W. L. & MORREEUW, J. P.	1017
MURRAY, W.	See: GILL, P. E., GOLUB, G. H., MURRAY, W. & SAUNDERS, M. A.	505
NADEAU, A., GUYARD, J. & FEIX, M. R.	Algebraic-Numerical Method for the Slightly Perturbed Harmonic Oscillator	1057
NÅSELL, INGEMAR	Inequalities for Modified Bessel Functions	253
NASHED, M. Z. & WAHBA, GRACE	Convergence Rates of Approximate Least Squares Solutions of Linear Integral and Operator Equations of the First Kind	69
NEILD, CAROL & SHANKS, DANIEL	On the 3-Rank of Quadratic Fields and the Euler product	279
NEVANLINNA, OLAVI & SIPILÄ, AARNE H.	A Nonexistence Theorem for Explicit A-Stable Methods	1053
NEWBERY, A. C. R.	Error Analysis for Polynomial Evaluation	789
NIEDERREITER, HARALD	On the Distribution of Pseudo-Random Numbers Generated by the Linear Congruential Method. II	1117
NITSCHE, JOACHIM A. & SCHATZ, ALFRED H.	Interior Estimates for Ritz-Galerkin Methods	937
OLIGER, JOSEPH	Fourth Order Difference Methods for the Initial Boundary-Value Problem for Hyperbolic Equations	15
OMODEI, B. J.	See: ANDERSSEN, R. S. & OMODEI, B. J.	719
OSLER, T. J.	See: DIAZ, J. B. & OSLER, T. J.	185
PAL, S. K.	See: JOHNSTON, R. L. & PAL, S. K.	33
PARKER, THOMAS	See: DRESSLER, ROBERT E, & PARKER, THOMAS	313
PARKER, THOMAS	See: DRESSLER, ROBERT E., MĄKOWSKI, ANDRZEJ & PARKER, THOMAS	651
PARLETT, B. N.	The Rayleigh Quotient Iteration and Some Generalizations for Nonnormal Matrices	679
PENNEY, DAVID E. & POMERANCE, CARL	A Search for Elliptic Curves with Large Rank	851

Author	*Title*	*Page*
PEREYRA, V.	See: LENTINI, M. & PEREYRA, V.	981
PIESSENS, ROBERT & BRANDERS, MARIA	A Note on the Optimal Addition of Abscissas to Quadrature Formulas of Gauss and Lobatto Type	135
POMERANCE, CARL	See: PENNEY, DAVID E. & POMERANCE, CARL	851
POWELL, M. J. D.	See: FLETCHER, R. & POWELL, M. J. D.	1067
PROTHERO, A. & ROBINSON, A.	On the Stability and Accuracy of One-Step Methods for Solving Stiff Systems of Ordinary Differential Equations	145
RIEU, ALAIN C.	See: BREZINSKI, CLAUDE & RIEU, ALAIN C.	731
ROBINSON, A.	See: PROTHERO, A. & ROBINSON, A.	145
RUHE, AXEL	SOR Methods for the Eigenvalue Problem with Large Sparse Matrices	695
SALZER, HERBERT E.	Some Problems in Optimally Stable Numerical Differentiation	1105
SAMADDAR, S. N.	Some Integrals Involving Associated Legendre Functions	257
SARKANY, E. F. & LINIGER, W.	Exponential Fitting of Matricial Multistep Methods for Ordinary Differential Equations	1035
SAUNDERS, M. A.	See: GILL, P. E., GOLUB, G. H., MURRAY, W. & SAUNDERS, M. A.	505
SCHATZ, ALFRED	An Observation Concerning Ritz-Galerkin Methods with Indefinite Bilinear Forms	959
SCHATZ, ALFRED H.	See: NITSCHE, JOACHIM A. & SCHATZ, ALFRED H.	
SCHOENBERG, I. J. & SILLIMAN, S. D.	On Semicardinal Quadrature Formulae	483
SELFRIDGE, J. L.	See: ECKLUND, E. F., JR., ERDÖS, P. & SELFRIDGE, J. L.	647
SHAMPINE, L. F.	Limiting Precision in Differential Equation Solvers	141
SHANKS, DANIEL	See: NEILD, CAROL & SHANKS, DANIEL	279
SHANKS, DANIEL	The Simplest Cubic Fields	1137
SHANKS, DANIEL & WRENCH, JOHN W., JR.	Brun's Constant	293
SHIMASKI, MASAAKI	See: HINATA, MASAHIRO, SHIMASAKI, MASAAKI & KIYONO, TAKESHI	45
SHREVE, DAVID C.	L^p Approximation of Fourier Transforms and Certain Interpolating Splines	779
SILLIMAN, S. D.	See: SCHOENBERG, I. J. & SILLIMAN, S. D.	483
SIPILÄ, AARNE, H.	See: NEVANLINNA, OLAVI & SIPILÄ, AARNE H.	1053
SNIDER, ARTHUR DAVID & FLEMING, GARY CHARLES	Approximation by Aliasing with Application to "Certaine" Stiff Differential Equations	465
STEWART, G. W.	Modifying Pivot Elements in Gaussian Elimination	537
SZILARD, A. L.	See: BAKER, H. H., DEWDNEY, A. K. & SZILARD, A. L.	833
TAYLOR, G. D. & WILLIAMS, J.	Existence Questions for the Problem of Chebyshev Approximation by Interpolating Rationals	1097
TE RIELE, H. J. J.	Four Large Amicable Pairs	309
THOMÉE, VIDAR & WAHLBIN, LARS	Convergence Rates of Parabolic Difference Schemes for Non-Smooth Data	1
THRON, W. J.	See: JONES, WILLIAM B. & THRON, W. J.	795
TRENCH, WILLIAM F.	Inversion of Toeplitz Band Matrices	1089
VAN LINDE, H. J.	High-Order Finite-Difference Methods for Poisson's Equation	369
VARAH, JAMES M.	A Comparison of Some Numerical Methods for Two-Point Boundary Value Problems	743

Author	*Title*	*Page*
WAHBA, GRACE	See: NASHED, M. Z. & WAHBA, GRACE	69
WAHLBIN, LARS	See: THOMÉE, VIDAR & WAHLBIN, LARS	1
WATANABE, DANIEL S. & FLOOD, RICHARD	An Implicit Fourth Order Difference Method for Viscous Flows	27
WATERMAN, M. S.	See: BEYER, W. A. & WATERMAN, M. S.	599
WEINTRAUB, SOL	A Compact Prime Listing	855
WEISS, RICHARD	The Application of Implicit Runge-Kutta and Collocation Methods to Boundary-Value Problems	449
WEST, KAREN I.	See: BEARD, JACOB T. B., JR. & WEST, KAREN I.	1166
WEST, KAREN I.	See: BEARD, JACOB T. B., JR. & WEST, KAREN I.	1167
WIDLUND, O.	See: FISCHER, D., GOLUB, G., HALD, O., LEIVA, C. & WIDLUND, O	349
WILLIAMS, J.	See: TAYLOR, G. D. & WILLIAMS, J.	1097
WILLIAMS, JACK & DE HOOG, FRANK	A Class of A-Stable Advanced Multistep Methods	163
WILLIAMS, KENNETH S.	A Quadratic Partition of Primes $\equiv 1 \pmod 7$	1133
WRENCH, JOHN W., JR.	See: SHANKS, DANIEL & WRENCH, JOHN W., JR.	293
YANAGIWARA, HIROKI	See: GAUTSCHI, WALTER & YANAGIWARA, HIROKI	125
ZLÁMAL, MILOŠ	Finite Element Methods for Parabolic Equations	393

SUBJECT CLASSIFICATION SYSTEM FOR INDEX OF REVIEWS

The following subject classification system is used for the yearly index of reviews. Individual reviews in the quarterly issues are assigned index classification numbers in simplified form.

1.00 **Biography and Bibliography (History)**

2.00 **Selected Topics in Numerical Analysis**

- 2.05 *Approximation Theory*
  - 2.05.1 *Least Squares, Curve Fitting, Harmonic Analysis*
  - 2.05.2 *Chebyshev (Best) Approximation*
  - 2.05.3 *Interpolation, Extrapolation*
  - 2.05.4 *Inverse Interpolation*
  - 2.05.5 *Rational Approximation*
  - 2.05.6 *Splines*
- 2.10 *Numerical Integration*
  - 2.10.1 *One-Dimensional*
  - 2.10.2 *Multi-Dimensional*
  - 2.10.3 *Monte Carlo*
- 2.15 *Numerical Differentiation*
- 2.20 *Roots of Equations*
- 2.25 *Evaluation of Series*
- 2.30 *Continued Fractions*
- 2.35 *Iteration Methods, Acceleration Techniques*
- 2.40 *Differences, Divided Differences*
- 2.45 *Algorithms, General Theory*
- 2.50 *Inequalities*
- 2.55 *Stability of Computation, Significance Arithmetic*
- 2.60 *Complexity of Computation*

3.00 **Linear Algebra**

- 3.05 *Matrices*
- 3.10 *Linear Equations*
  - 3.10.1 *Error Analysis*
- 3.15 *Eigenvalues and Eigenvectors*
  - 3.15.1 *Error Analysis*
- 3.20 *Matrix Inversion and Pseudo-Inverses*
  - 3.20.1 *Error Analysis*
- 3.25 *Linear and Nonlinear Programming, Theory of Games*
  - 3.25.1 *Error Analysis*
- 3.30 *Determinants*
- 3.35 *Sparse Matrices*

4.00 **Ordinary Differential Equations**

- 4.05 *Initial Value Problems*
  - 4.05.1 *Analytic Methods*
    - 4.05.1.1 *Error Analysis*
  - 4.05.2 *One-Step Methods*
    - 4.05.2.1 *Error Analysis*
  - 4.05.3 *Multistep Methods*
    - 4.05.3.1 *Error Analysis*

4.10 *Linear Boundary Value and Eigenvalue Problems*
4.10.1 *Analytic Methods*
4.10.1.1 *Error Analysis*
4.10.2 *Initial Value (Trial and Error or Shooting) Methods*
4.10.2.1 *Error Analysis*
4.10.3 *Finite Difference (Nonshooting) Methods*
4.10.3.1 *Error Analysis*
4.10.4 *Finite Element Methods*
4.10.4.1 *Error Analysis*
4.15 *Nonlinear Boundary Value and Eigenvalue Problems*
4.15.1 *Analytic Methods*
4.15.1.1 *Error Analysis*
4.15.2 *Initial Value (Trial and Error or Shooting) Methods*
4.15.2.1 *Error Analysis*
4.15.3 *Finite Difference (Nonshooting) Methods*
4.15.3.1 *Error Analysis*

5.00 Partial Differential Equations

5.05 *Initial Value Problems*
5.05.1 *Analytic Methods*
5.05.1.1 *Error Analysis*
5.05.2 *Explicit Difference Methods*
5.05.2.1 *Error Analysis*
5.05.3 *Implicit Difference Methods, Iterative Schemes*
5.05.3.1 *Error Analysis*
5.05.4 *Finite Element and Other Approximation Methods*
5.05.4.1 *Error Analysis*
5.10 *Boundary Value Problems*
5.10.1 *Analytic Methods*
5.10.1.1 *Error Analysis*
5.10.2 *Finite Difference Methods, Iterative Schemes*
5.10.2.1 *Error Analysis*
5.10.3 *Finite Element and Other Approximation Methods*
5.10.3.1 *Error Analysis*
5.15 *Eigenvalue Problems*
5.15.1 *Analytic Methods*
5.15.1.1 *Error Analysis*
5.15.2 *Finite Difference Methods, Iterative Schemes*
5.15.2.1 *Error Analysis*
5.15.3 *Finite Element and Other Approximation Methods*
5.15.3.1 *Error Analysis*
5.20 *Mixed Initial and Boundary Value Problems*
5.20.1 *Analytic Methods*
5.20.1.1 *Error Analysis*
5.20.2 *Explicit Difference Methods*
5.20.2.1 *Error Analysis*
5.20.3 *Implicit Difference Methods, Iterative Schemes*
5.20.3.1 *Error Analysis*
5.20.4 *Finite Element and Other Approximation Methods*
5.20.4.1 *Error Analysis*

6.00 Other Functional Equations

6.05 *Difference Equations*
6.10 *Difference-Differential Equations*
6.15 *Integral Equations*
6.20 *Integro-Differential Equations*

6.25 *Convolution Equations*
6.30 *Variational Equations*
6.35 *Abstract Operator Equations*
6.40 *Stochastic Differential Equations*

7.00 Special Functions

7.05 *Mathematical Constants, Special Polynomials (Nonorthogonal) and Numbers: Bernoulli, Euler, Stirling, Binomial Coefficients, Factorials*
7.10 *Elementary Functions, Powers and Roots*
7.15 *Gamma Functions Psi Functions, Zeta Functions and Related Functions*
7.20 *Incomplete Gamma Functions*
7.20.1 *Exponential Integral, Cosine and Sine Integrals and Related Functions*
7.20.2 *Error Functions, Fresnel Integrals and Related Functions*
7.25 *Confluent Hypergeometric Functions*
7.25.1 *Parabolic Cylinder Functions*
7.25.2 *Coulomb Wave Functions*
7.30 *Bessel Functions*
7.35 *Lommel Functions, Struve Functions, Anger-Weber Functions and Associated Bessel Functions*
7.40 *Legendre Functions*
7.45 *Gaussian Hypergeometric Functions*
7.50 *Orthogonal Polynomials and Functions*
7.55 *Expansions in Series of Orthogonal Polynomials, Bessel Functions, Other Functions*
7.60 *Elliptical Integrals and Functions, Weierstrass Elliptic Integrals, Related Functions*
7.65 *Mathieu Functions*
7.70 *Spheroidal Wave Functions, Other Wave Functions*
7.75 *Generalized Hypergeometric Functions of a Single Variable*
7.80 *Generalized Hypergeometric Functions of More Than One Variable*
7.85 *Basic Hypergeometric Functions*
7.90 *Integral Transforms*
7.95 *Numerical Tables of Integrals and Transforms*
7.100 *Numerical Tables of Infinite Series*
7.105 *Handbooks of Mathematical Tables and Formulae*

8.00 Probability and Statistics

8.05 *Random Numbers*
8.05.1 *Tables*
8.10 *Monte Carlo, Markov Chains*
8.15 *Multivariate Analysis*
8.20 *Regression Analysis*
8.25 *Analysis of Variance*
8.30 *Time Series Analysis*
8.35 *Nonparametric Analysis*
8.40 *Sequential Analysis*
8.45 *Classical Statistics*
8.50 *Handbooks of Tables and Formulae*

9.00 Number Theory

9.05 *Mersenne, Fermat, Perfect and Related Numbers*
9.10 *Number Theoretic Functions and Tables*
9.15 *Binomial Congruences, Primitive Roots, Residues, etc.*
9.20 *Primes and Their Distribution*
9.25 *Factorization*
9.30 *Forms and Diophantine Equations*
9.35 *Continued Fractions and Diophantine Approximation*
9.40 *Normal Numbers and Distribution of Digits*

9.45 *Modular Computation*

10.00 Algebra and Combinatorial Theory

10.05 *Groups, Rings, Fields, Algebras*
10.10 *Finite Fields*
10.15 *Irreducible Polynomials*
10.20 *Arrays, Latin Squares*
10.25 *Projective Planes, Block Designs, Difference Sets*
10.30 *Permutations, Combinatorial Identities*
10.35 *Graph Theory*

11.00 Geometry

11.05 *Coordinate Conversion Tables*
11.10 *Polyhedra and Polytopes*
11.15 *Graph Theory*

12.00 Computers and Other Aids to Computation

12.05 *Digital Computers*
12.05.1 *Coding, Programming and Software*
12.05.2 *Design and Hardware*
12.05.3 *Computer Aided Instruction*
12.10 *Analog Computers*
12.10.1 *Design and Hardware*
12.15 *Digital-Analog (Hybrid) Computers*
12.15.1 *Coding, Programming and Software*
12.15.2 *Design and Hardware*
12.20 *Mechanical Aids to Computation—Slide Rules, Desk Calculators, Others*
12.25 *Nomographs*

13.00 Applications

13.05 *Physical and Chemical Sciences*
13.05.1 *Weights and Measures Tables*
13.10 *Astronomy, Astrophysics*
13.10.1 *Navigation Tables*
13.15 *Engineering Sciences*
13.15.1 *Engineering Tables*
13.20 *Earth Sciences, Atmospheric Sciences, Fluid Dynamics*
13.20.1 *Triangulation and Geodetic Tables*
13.25 *Biology and the Behavioral Sciences*
13.30 *Economics and the Social Sciences*
13.35 *Information Theory, Automata, Logic Control Theory, Dynamic Programming, Cybernetics*
13.40 *Management Problems, Data Analysis and Processing*
13.45 *Actuarial Science*
13.45.1 *Actuarial and Financial Tables*
13.50 *Humanities, Linguistics*
13.55 *Logic*

14.00 Miscellaneous

14.05 *Mathematical Research, Mathematical Education*

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

Author	*Review Number*	*Classification*	*Page*
ALANEN, JACK	43	9.00	878
ALANEN, JACK	44	9.00	879
BAUER, F., GARABEDIAN, P. & KORN, D.	22	5.10, 13.20	671
BECKMANN, PETER	39	7.50, 13.15	874
BECKMANN, PETR	1	1.00	325
BEYER, W. A. & WATERMAN, M. S.	19	2.30, 7.00	667
BOONE, W. W., CANNONITO, F. B. & LYNDON, C. R., Editors	33	2.45, 10.05	866
BRAINERD, WALTER S.	13	See: GROSS, JONATHAN L. & BRAINERD WALTER S.	335
BRENT, R. P.	7	9.00	331
BRENT, RICHARD P.	32	2.05.3, 2.20, 2.40	865
BULIRSCH, R.	49	See: STOER, J. & BULIRSCH, R.	1169
BUTZER, P. L., KAHANE, J.-P. & SZ.-NAGY, B., Editors	29	2.05, 2.05.6, 6.35	859
CANNONITO, F. B.	33	See: BOONE, W. W., CANNONITO, F. B. & LYNDON, C. R., Editors	866
COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	2	2.00, 3.00, 4.00, 5.00, 7.50, 8.10	327
COLLATZ, L. & WETTERLING, W., Editors	31	2.05, 2.35, 3.25, 13.35	862
COLOMBO, SERGE & LAVOINE, JEAN	26	7.90, 7.105	674
CUTTS, J. F.	2	See: COHEN, A. M., CUTTS, J. F., FIELDER R., JONES, D. E., RIBBANS, J. & STUART, E.	327
FIELDER, R.	2	See: COHEN, A. M. CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	327
FIX, GEORGE J.	35	See: STRANG, GILBERT & FIX, GEORGE J.	870
GARABEDIAN, P.	22	See: BAUER, F., GARABEDIAN, P. & KORN, D.	671
GIHMAN, I. I. & SKOROHOD, A. V.	36	5.00, 6.40	871
GRAVES-MORRIS, P. R., Editor	30	2.05, 2.10, 2.15, 2.25, 2.30, 2.35, 4.00, 13.05, 13.15, 13.35	859
GREY, LOUIS D.	46	12.05.1	880
GRISWOLD, RALPH E.	14	12.05.1	336
GROSS, JONATHAN L. & BRAINERD, WALTER S.	13	12.00	335
HANSON, RICHARD J.	18	See: PHILLIPS, JAMES L. & HANSEN, RICHARD J.	666
HENDERSON, LARRY	11	See: WILLIAMS, HUGH, HENDERSON, LARRY & WRIGHT, KEN	333
JANIC, R. R.	24	See: MITRONOVIC, D. S., TOSIC, D. D. & JANIC, R. R.	673
JOHN, S.	27	8.25	675

Author	*Review Number*	*Classification*	*Page*
JONES, D. E.	2	See: COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	327
KAHANE, J.-P.	29	See: BUTZER, P. L., KAHANE, J.-P. & SZ.-NAGY, B., Editors	859
KARST, EDGAR	8	9.00	332
KNUTH, DONALD E.	55	12.00	1175
KORN, D.	22	See: BAUER, F., GARABEDIAN, P. & KORN, D.	671
KORN, GRANNINO A.	28	12.05.2	675
LAND, CHARLES E.	42	8.00	877
LAND, CHARLES E.	54	8.00	1174
LAVOINE, JEAN	26	See: COLOMBO, SERGE & LAVOINE, JEAN	674
LEBOWITZ, AARON	40	See: RAUCH, HARRY E. & LOBOWITZ, AARON	875
LING, CHIH-BING	4	2.20	329
LOOTSMA, F. A., Editor	51	2.05, 2.35, 3.25	1171
LYNDON, C. R.	33	See: BOONE, W. W., CANNONITO, F. B. & LYNDON, C. R., Editors	866
MEIR, A. & SHARMA, A., Editors	50	2.05, 2.05.6, 2.35	1169
MEYER, GUNTER H.	52	4.00, 5.00	1172
MILLER, RAYMOND E. & THATCHER, JAMES W., Editors	20	2.60	667
MITRINOVIC, D. S.	23	7.00	672
MITRINOVIC, D. S., TOSIC, D. D. & JANIC, R. R.	24	7.00	673
MORRIS, P. A.	45	10.00	880
NEILD, CAROL	9	See: SHANKS, DANIEL & NEILD, CAROL	332
NEWMAN, MORRIS	5	3.00, 9.00, 10.00	329
PAGE, E. S. & WILSON, L. B.	48	12.05.1, 13.40	883
PATANKAR, S. V.	41	See: SRINATH, L. S., SARMA, K. R. & PATANKAR, S. V., Editors	876
PHILLIPS, JAMES L. & HANSON, RICHARD J.	18	2.05.6, 2.10	666
RAUCH, HARRY E. & LEBOWITZ, AARON	40	7.60	875
REID, J. K., Editor	21	3.00	669
RIBBANS, J.	2	See: COHEN, A. M., CUTTS, J. R., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	327
ROACHE, PATRICK J.	53	5.00, 13.20	1173
ROBINSON, H. P.	37	7.00	872
ROSE, DONALD J. & WILLOUGHBY, RALPH A., Editors	21	3.00	669
RUBIN, KARL C.	10	9.00	333
RUTISHAUSER, H.	3	See: SCHWARZ, H. R., RUTISHAUSER, H. & STIEFEL, E.	328
SARMA, K. R.	41	See: SRINATH, L. S., SARMA, K. R. & PATANKAR, S. V., Editors	876
SCHULTZ, MARTIN H.	16	2.05.1, 2.05.4.1, 2.05.6, 4.10.4.1, 5.10.3.1, 5.15.3.1, 5.20.4.1, 6.15	663
SCHWARZ, H. R. RUTISHAUSER, H. & STIEFEL, E.	3	2.05, 2.35, 3.00, 4.10	328

Author	*Review Number*	*Classifications*	*Page*
SCOTT, MELVIN R.	52	4.00, 5.00	1172
SHANKS, DANIEL & NEILD, CAROL	9	9.00	332
SHARMA, A.	50	See: MEIR, A. & SHARMA, A., Editors	1169
SKOROHOD, A. V.	36	See: GIHMAN, I. I. & SKOROHOD, A. V.	871
SLOANE, N. J. A.	38	7.00, 9.00, 10.00	873
SPIRA, ROBERT	6	7.00, 9.00	331
SRINATH, L. S., SARMA, K. R., & PATANKAR, S. V., Editors	41	7.105	876
STETTER, HANS J.	34	4.00, 4.05, 4.05.2.1, 4.05.3	868
STIEFEL, E.	3	See: SCHWARZ, H. R., RUTISHAUSER, H. & STIEFEL, E.	328
STOER, JOSEF	17	2.00, 2.10, 2.15, 2.20, 2.30, 2.35, 2.40, 2.55, 3.00, 4.00	664
STOER, J. & BULIRSCH, R.	49	2.00, 3.00, 4.00	1169
STRANG, GILBERT & FIX, GEORGE J.	35	5.00, 5.10.3.1, 5.15.3.1	870
STUART, E.	2	See: COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	327
SZ.-NAGY, B.	29	See: BUTZER, P. L., KAHANE, J.-P. & SZ.-NAGY, B., Editors	859
THATCHER, JAMES W.	20	See: MILLER, RAYMOND E. & THATCHER, JAMES W., Editors	667
TOSIC, D. D.	24	See: MITRINOVIC, D. S., TOSIC, D. D. & JANIC, R. R.	673
TRANTER, C. J.	25	7.00, 7.30	673
VAN DE RIET, R. P.	56	12.05.1	1180
WATERMAN, M. S.	19	See: BEYER, W. A. & WATERMAN, M. S.	667
WETTERLING, W.	31	See: COLLATZ, L. & WETTERLING, W., Editors	862
WILLIAMS, HUGH, HENDERSON, LARRY & WRIGHT, KEN	11	9.00	333
WILLOUGHBY, RALPH A.	21	See: ROSE, DONALD J. & WILLOUGHBY, RALPH A., Editors	669
WILSON, L. B.	48	See: PAGE, E. S. & WILSON, L. B.	883
WIRTH, NIKLAUS	47	12.05.1	881
WRIGHT, KEN	11	See: WILLIAMS, HUGH, HENDERSON, LARRY & WRIGHT, KEN	333
YERSHOV, A. P., Editor	15	12.05.1	338
ZIMMER, HORST G.	12	9.00	335

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

Author	*Review Number*	*Title*	*Page*
1.00 Biography and Bibliography (History)			
BECKMANN, PETR	1	A History of π (Pi)	325
2.00 Selected Topics in Numerical Analysis			
COHEN, A. M., CUTTS, J. F., FIELDER R., JONES, D. E. RIBBANS, J. & STUART, E.	2	Numerical Analysis	327
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664

Author	Review Number	Title	Page
STOER, J. & BULIRSCH, R.	49	Einführung in die Numerische Mathematik. II	1169
2.05 *Approximation Theory*			
BUTZER, P. L., KAHANE, J.-P. & SZ.-NAGY, B., Editors	29	Linear Operators and Approximation	859
COLLATZ, L. & WETTERLING, W., Editors	31	Numerische Methoden bei Optimierungsaufgaben	862
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
LOOTSMA, F. A., Editor	51	Numerical Methods for Non-Linear Optimization	1171
MEIR, A. & SHARMA, A., Editors	50	Spline Functions and Approximation Theory	1169
SCHWARZ, H. R., RUTISHAUSER, H. & STIEFEL, E.	3	Numerical Analysis of Symmetric Matrices	328
2.05.1. *Least Squares, Curve Fitting, Harmonic Analysis*			
SCHULTZ, MARTIN H.	16	Spline Analysis	663
2.05.3 *Interpolation, Extrapolation*			
BRENT, RICHARD P.	32	Algorithms for Minimization Without Derivatives	865
2.05.4 *Inverse Interpolation*			
SCHULTZ, MARTIN H.	16	Spline Analysis	663
2.05.6 *Splines*			
BUTZER, P. L., KAHANE, J.-P. & SZ.-NAGY, B., Editors	29	Linear Operators and Approximation	859
MEIR, A. & SHARMA, A., Editors	50	Spline Functions and Approximation Theory	1169
PHILLIPS, JAMES L. & HANSON, RICHARD J.	18	Gauss Quadrature Rules with B-Spline Weight Functions	666
SCHULTZ, MARTIN H.	16	Spline Analysis	663
2.10 *Numerical Integration*			
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
PHILLIPS, JAMES L. & HANSON, RICHARD J.	18	Gauss Quadrature Rules with B-Spline Weight Functions	666
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
2.15 *Numerical Differentiation*			
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
2.20 *Roots of Equations*			
BRENT, RICHARD P.	32	Algorithms for Minimization Without Derivatives	865
LING, CHIH-BING	4	On Values of Roots of Monomial-Transcendental Equations	329
STOER, JOSEF	17	Einführung in die Numerische Mathematik.I	664
2.25 *Evaluation of Series*			
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
2.30 *Continued Fractions*			
BEYER, W. A. & WATERMAN, M. S.	19	Decimals and Partial Quotients of Euler's Constant and ln 2	667
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
2.35 *Iteration Methods, Acceleration Techniques*			
COLLATZ, L. & WETTERLING, W., Editors	31	Numerische Methoden bei Optimierungsaufgaben	862
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
LOOTSMA, F. A., Editor	51	Numerical Methods for Non-Linear Optimization	1171
MEIR, A. & SHARMA, A., Editors	50	Spline Functions and Approximation Theory	1169

Author	Review Number	Title	Page
SCHWARZ, H. R., RUTISHAUSER, H. & STIEFEL, E.	3	Numerical Analysis of Symmetric Matrices	328
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
2.40 *Differences, Divided Differences*			
BRENT, RICHARD P.	32	Algorithms for Minimization Without Derivatives	865
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
2.45 *Algorithms, General Theory*			
BOONE, W. W., CANNONITO, F. B. & LYNDON, C. R., Editors	33	Word Problems, Decision Problems and the Burnside Problem in Group Theory	866
2.55 *Stability of Computation, Significance Arithmetic*			
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
2.60 *Complexity of Computation*			
MILLER, RAYMOND E. & THATCHER, JAMES W., Editors	20	Complexity of Computer Computations	667
3.00 Linear Algebra			
COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E. RIBBANS, J. & STUART, E.	2	Numerical Analysis	327
NEWMAN, MORRIS	5	Integral Matrices	329
REID, J. K., Editor	21	Large Sparse Sets of Linear Equations	669
ROSE, DONALD J. & WILLOUGHBY, RALPH A., Editors	21	Sparse Matrices and Their Applications	669
SCHWARZ, H. R., RUTISHAUSER, H. & STIEFEL, E.	3	Numerical Analysis of Symmetric Matrices	328
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
STOER, J. & BULIRSCH, R.	49	Einführung in die Numerische Mathematik. II	1169
3.25 *Linear and Nonlinear Programming, Theory of Games*			
COLLATZ, L. & WETTERLING, W., Editors	31	Numerische Methoden bei Optimierungsaufgaben	862
LOOTSMA, F. A., Editor	51	Numerical Methods for Non-Linear Optimization	1171
4.00 Ordinary Differential Equations			
COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	2	Numerical Analysis	327
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
MEYER, GUNTER H.	52	Initial Value Methods for Boundary Value Problems	1172
STOER, JOSEF	17	Einführung in die Numerische Mathematik. I	664
STOER, J. & BULIRSCH, R.	49	Einführung in die Numerische Mathematik. II	1169
4.05 *Initial Value Problems*			
STETTER, HANS J.	34	Analysis of Discretization Methods for Ordinary Differential Equations	868
4.05.2 *One-Step Methods*			
4.05.2.1 *Error Analysis*			
STETTER, HANS J.	34	Analysis of Discretization Methods for Ordinary Differential Equations	868
4.05.3 *Multistep Methods*			
STETTER, HANS J.	34	Analysis of Discretization Methods for Ordinary Differential Equations	868
4.10 *Linear Boundary Value and Eigenvalue Problems*			
SCHWARZ, H. R., RUTISHAUSER, H. & STIEFEL, E.	3	Numerical Analysis of Symmetric Matrices	328

Author	Review Number	Title	Page
4.10.4 *Finite Element Methods*			
4.10.4.1 *Error Analysis*			
SCHULTZ, MARTIN H.	16	Spline Analysis	663
5.00 Partial Differential Equations			
COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	2	Numerical Analysis	327
GIHMAN, I. I. & SKOROHOD, A. V.	36	Stochastic Differential Equations	871
MEYER, GUNTER H.	52	Initial Value Methods for Boundary Value Problems	1172
ROACHE, PATRICK, J.	53	Computational Fluid Dynamics	1173
SCOTT, MELVIN R.	52	Invariant Imbedding and Its Applications to Ordinary Differential Equations	1172
STRANG, GILBERT & FIX, GEORGE J.	35	An Analysis of the Finite Element Method	870
5.10 *Boundary Value Problems*			
BAUER, F., GARABEDIAN, P. & KORN, D.	22	Supercritical Wing Sections	671
5.10.3 *Finite Element and Other Approximation Methods*			
5.10.3.1 *Error Analysis*			
SCHULTZ, MARTIN H.	16	Spline Analysis	663
STRANG, GILBERT & FIX, GEORGE J.	35	An Analysis of the Finite Element Method	870
5.15 *Eigenvalue Problems*			
5.15.3 *Finite Element and Other Approximation Methods*			
5.15.3.1 *Error Analysis*			
SCHULTZ, MARTIN H.	16	Spline Analysis	663
STRANG, GILBERT & FIX, GEORGE J.	35	An Analysis of the Finite Element Method	870
5.20 *Mixed Initial and Boundary Value Problems*			
5.20.4 *Finite Element and Other Approximation Methods*			
5.20.4.1 *Error Analysis*			
SCHULTZ, MARTIN H.	16	Spline Analysis	663
6.00 Other Functional Equations			
6.15 *Integral Equations*			
SCHULTZ, MARTIN H.	16	Spline Analysis	663
6.35 *Abstract Operator Equations*			
BUTZER, P. L., KAHANE, J.-P. & SZ.-NAGY, B., Editors	29	Linear Operators and Approximation	859
GIHMAN, I. I. & SKOROHOD, A. V.	36	Stochastic Differential Equations	871
7.00 Special Functions			
BEYER, W. A. & WATERMAN, M. S.	19	Decimals and Partial Quotients of Euler's Constant and ln 2	667
MITRINOVIC, D. S.	23	Uvod u Specijalne Funkcije (Introduction to the Special Functions)	672
MITRINOVIC, D. S., TOSIC, D. D. & JANIC, R. R.	24	Specijalne Funkcije—Zbornik Zadataka i Problema (A Collection of Exercises and Problems)	673
ROBINSON, H. P.	37	Tables of the Derivative of the Psi Function to 58 Decimals	872

Author	Review Number	Title	Page
TRANTER, C. J.	25	Bessel Functions with Some Physical Applications	673
SLOANE, N. J. A.	38	A Handbook of Integer Sequences	873
SPIRA, ROBERT	6	Table of $e^{\pi\sqrt{n}}$	331
7.30 Bessel Functions			
TRANTER, C. J.	25	Bessel Functions with Some Physical Applications	673
7.50 Orthogonal Polynomials and Functions			
BECKMANN, PETER	39	Orthogonal Polynomials for Engineers and Physicists	874
COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	2	Numerical Analysis	327
7.60 Elliptical Integrals and Functions, Weierstrass Elliptic Integrals, Related Functions			
RAUCH, HARRY E. & LEBOWITZ AARON	40	Elliptic Functions, Theta Functions, and Riemann Surfaces	875
7.90 Integral Transforms			
COLOMBO, SERGE & LAVOINE, JEAN	26	Transformations de Laplace et de Mellin	674
7.105 Handbooks of Mathematical Tables and Formulae			
COLOMBO, SERGE & LAVOINE, JEAN	26	Transformations de Laplace et de Mellin	674
SRINATH, L. S., SARMA, K. R. & PATANKAR, S. V., Editors	41	Basic Engineering and Mathematical Tables	876
8.00 Probability and Statistics			
LAND, CHARLES E.	42	Tables of Critical Values for Testing Hypotheses about Linear Functions of the Normal Mean and Variance. II	877
LAND, CHARLES E.	54	Tables of Standard Confidence Limits for Linear Functions of the Normal Mean and Variance	1174
8.10 Monte Carlo, Markov Chains			
COHEN, A. M., CUTTS, J. F., FIELDER, R., JONES, D. E., RIBBANS, J. & STUART, E.	2	Numerical Analysis	327
8.25 Analysis of Variance			
JOHN, S.	27	Critical Values for Inference about Normal Dispersion	675
9.00 Number Theory			
ALANEN, JACK	43	Empirical Study of Aliquot Series	878
ALANEN, JACK	44	Tables of Aliquot Sequences	879
BRENT, R. P.	7	The Distribution of Prime Gaps in Intervals up to 10^{16}	331
KARST, EDGAR	8	The Third 2500 Reciprocals and their Partial Sums of all Twin Primes $(p, p + 2)$ between (239429, 239431) and (393077, 393079)	332
NEWMAN, MORRIS	5	Integral Matrices	329
RUBIN, KARL C.	10	Table of $A^{(k)}(n)$	333
SHANKS, DANIEL & NEILD, CAROL	9	Brun's Constant	332
SLOANE, N. J. A.	38	A Handbook of Integer Sequences	873

Author	Review Number	Title	Page
SPIRA, ROBERT	6	Table of $e^{\pi\sqrt{n}}$	331
WILLIAMS, HUGH, HENDERSON, LARRY & WRIGHT, KEN	11	Two Related Quadratic Surds Having Continued Fractions with Exceptionally Long Periods	333
ZIMMER, HORST G.	12	Computational Problems, Methods, and Results in Algebraic Number Theory	335
10.00 Algebra and Combinatorial Theory			
MORRIS, P. A.	45	Characteristic Polynomials of Trees on up to 14 Nodes	880
NEWMAN, MORRIS	5	Integral Matrices	329
SLOANE, N. J. A.	38	A Handbook of Integer Sequences	873
10.05 Groups, Rings, Fields, Algebras			
BOONE, W. W., CANNONITO, F. B. & LYNDON, C. R., Editors	33	Word Problems, Decision Problems and the Burnside Problem in Group Theory	866
12.00 Computers and Other Aids to Computation			
GROSS, JONATHAN L. & BRAINERD, WALTER S.	13	Fundamental Programming Concepts	335
KNUTH, DONALD E.	55	The Art of Computer Programming, Vol. 3: Sorting and Searching	1175
12.05 Digital Computers			
12.05.1 Coding, Programming and Software			
GREY, LOUIS D.	46	A Course in APL/360 with Applications	880
GRISWOLD, RALPH E.	14	The Macro Implementation of SNOBOL 4	336
PAGE, E. S. & WILSON, L. B.	48	Information Representation and Manipulation in a Computer	883
VAN DE RIET, R. P.	56	ABC Algol, A Portable Language for Formula Manipulation Systems. Part I: The Language, Part II: The Compiler	1180
WIRTH, NIKLAUS	47	Systematic Programming: An Introduction	881
YERSHOV, A. P., Editor	15	The ALPHA Automatic Programming System	338
12.05.2 Design and Hardware			
KORN, GRANNINO A.	28	Minicomputers for Engineers and Scientists	675
13.00 Applications			
13.05 Physical and Chemical Sciences			
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
13.15 Engineering Sciences			
BECKMANN, PETER	39	Orthogonal Polynomials for Engineers and Physicists	874
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859
13.20 Earth Sciences, Atmospheric Sciences, Fluid Dynamics			
BAUER, F., GARABEDIAN, P. & KORN, D.	22	Supercritical Wing Sections	671
ROACHE, PATRICK, J.	53	Computational Fluid Dynamics	1173
13.35 Information Theory, Automata, Logic Control Theory, Dynamic Programming, Cybernetics			
COLLATZ, L. & WETTERLING, W., Editors	31	Numerische Methoden bei Optimierungsaufgaben	862
GRAVES-MORRIS, P. R., Editor	30	Padé Approximants and Their Applications	859

Author	Review Number	Title	Page
13.40 *Management Problems, Data Analysis and Processing*			
PAGE, E. S. & WILSON, L. B.	48	Information Representation and Manipulation in a Computer	883

INDEX OF TABLE ERRATA

No.	Author	Title	Page
513	ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables	1182
511	HART, JOHN F., CHENEY, E. W., LAWSON, CHARLES L., MAEHLY, HANS J., MESTENYI, CHARLES K., RICE, JOHN R., THACHER, HENRY C., JR, & WITZGALL, CHRISTOPH	Computer Approximations	885
510	LEHMER, D. H.	"A cotangent analogue of continued fractions"	677
512	MILNE-THOMSON, L. M.	"Ten-figure table of the complete elliptic integrals K, K', E, E' and a table of $1/\vartheta_3^2(0\|\tau)$, $1/\vartheta_3^2(0\|\tau')$"	1181
508	DEMORGAN, A.	"On the syllogism (IV) and on the logic of relations"	341
509	YEUNG, S.-F. & LING, C.-B.	"On values of roots of monomial-transcendental equations"	341

INDEX OF CORRIGENDA

Author	Title	Page
KARST, EDGAR	The Second 2500 Reciprocals and their Partial Sums of all Twin Primes $(p, p + 2)$ between (102911, 102913) and (239387, 239389)	343
OREN, SHMUEL S.	"Self-scaling variable metric algorithms without line search for unconstrained minimization"	887
SHAMPINE, L. F.	"Limiting precision in differential equation solvers"	1183
SHANKS, DANIEL & WRENCH, JOHN W., JR.	"Brun's constant"	1183
TUCKERMAN, BRYANT	"A search procedure and lower bound for odd perfect numbers"	887
TUCKERMAN, BRYANT	Odd-Perfect-Number Tree to 10^{36}	887
YANG, C. H.	"On designs of maximal $(+1, -1)$-matrices of order $n \equiv 2 \pmod 4$. II"	1183
YANG, C. H.	"On Hadamard matrices constructible by circulant submatrices"	1183

INDEX OF MICROFICHE SUPPLEMENTS

Author	Title	MOC Issue
BEARD, T. B., JR. & WEST, KAREN I.	Addendum to "Some Primitive Polynomials of the Third Kind"	October
BEARD, T. B., JR. & WEST, KAREN I.	Addendum to "Factorization Tables for $x^n - 1$ over $GF(q)$"	October
BLAIR, J. M.	Tables for "Rational Chebyshev Approximations for the Modified Bessel Functions $I_0(x)$ and $I_1(x)$"	April
BREIG, W. F. & CROSBIE, A. L.	Tables for "Numerical Computation of a Generalized Exponential Integral Function"	April