VOLUME XLIV

AUTHOR INDEX

Author	Title	Page
ALEX, LEO J.	On the Diophantine Equation $1 + 2^a = 3^b5^c + 2^d3^e5^f$	267
APSOTOL, TOM M.	Formulas for Higher Derivatives of the Riemann Zeta Function	223
AZIZ, A. K., KELLOGG, R. B. & STEPHENS, A. B.	Least Squares Methods for Elliptic Systems	53
BANK, R. E. & WEISER, A.	Some A Posteriori Estimators for Elliptic Partial Differential Equations	283
BERNARDI, CHRISTINE & RAUGEL, GENEVIÈVE	Analysis of Some Finite Elements for the Stokes Problem	71
BIGGE, J. & BOHL, E.	On the Steady States of Finitely Many Chemical Cells	405
BOHL, E.	*See*: BIGGE, J. & BOHL, E.	405
BUHLER, JOE P., GROSS, BENEDICT H. & ZAGIER, DON B.	On the Conjecture of Birch and Swinnerton-Dyer for an Elliptic Curve of Rank 3	473
CASSELS, J. W. S.	A Note on the Diophantine Equation $x^3 + y^3 + z^3 = 3$	265
COSTA PEREIRA, N.	Estimates for the Chebyshev Function $\psi(x) - \theta(x)$	211
DOUGLAS, JIM, JR. & ROBERTS, JEAN E.	Global Estimates for Mixed Methods for Second Order Elliptic Equations	39
ENNOLA, VEIKKO & TURUNEN, REINO	On Totally Real Cubic Fields	495
ERIKSSON, KENNETH	Finite Element Methods of Optimal Order for Problems with Singular Data	345
ERIKSSON, KENNETH	Improved Accuracy By Adapted Mesh-Refinements in the Finite Element Method	321
FERCH, H.	*See*: STINSON, D. R. & FERCH, H.	533
FINCKE, U. & POHST, M.	Improved Methods for Calculating Vectors of Short Length in a Lattice, Including a Complexity Analysis	463
GAUTSCHI, WALTER & MILOVANOVIĆ, GRADIMIR V.	Gaussian Quadrature Involving Einstein and Fermi Functions With an Application to Summation of Series	177
GEVECI, TUNC	*See*: KOK, BARBARA & GEVECI, TUNC	379
GOLDBERG, MOSHE & TADMOR, EITAN	Convenient Stability Criteria for Difference Approximations of Hyperbolic Initial-Boundary Value Problems	361
GRAMAIN, F. & WEBER, M.	Computing an Arithmetic Constant Related to the Ring of Gaussian Integers	241
GROSS, BENEDICT H.	*See*: BUHLER, JOE P., GROSS, BENEDICT H. & ZAGIER, DON B.	473
HAFEZ, MOHAMED	*See*: OSHER, STANLEY, HAFEZ, MOHAMED & WHITLOW, WOODROW, JR.	1
HEALD, MARK A.	Rational Approximations for the Fresnel Integrals	459
DE HOOG, FRANK & WEISS, RICHARD	The Application of Runge-Kutta Schemes to Singular Initial Value Problems	93
HUDSON, RICHARD H.	Averaging Effects on Irregularities in the Distribution of Primes in Arithmetic Progressions	561
IOAKIMIDIS, N. I.	Application of Quadrature Rules for Cauchy-Type Integrals to the Generalized Poincaré-Bertrand Formula	199
IOAKIMIDIS, N. I.	On the Uniform Convergence of Gaussian Quadrature Rules for Cauchy Principal Value Integrals and Their Derivatives	191

Author	Title	Page
JONES, H. M. & MCKEE, S.	Variable Step Size Predictor-Corrector Schemes for Second Kind Volterra Integral Equations	391
KELLOGG, R. B.	*See*: AZIZ, A. K., KELLOGG, R. B. & STEPHENS, A. B.	53
KISHORE, MASAO	Odd Triperfect Numbers Are Divisible By Eleven Distinct Prime Factors	261
KOK, BARBARA & GEVECI, TUNC	The Convergence of Galerkin Approximation Schemes for Second-Order Hyperbolic Equations With Dissipation	379
LAGARIAS, J. C., MILLER, V. S. & ODLYZKO, A. M.	Computing $\pi(x)$: The Meissel-Lehmer Method	537
LEHNER, J. & SHEINGORN, M.	Computing Self-Intersections of Closed Geodesics on Finite-Sheeted Covers of the Modular Surface	233
LEWANOWICZ, S.	On the Differential-Difference Properties of the Extended Jacobi Polynomials	435
LIU, ZHISHUN A.	*See*: PARLETT, BERESFORD N., TAYLOR, DEREK R. & LIU, ZHISHUN A.	105
MAHONEY, J. F.	Partial Fraction Evaluation and Incomplete Decomposition of a Rational Function Whose Denominator Contains a Repeated Polynomial Factor	167
MCKEE, S.	*See*: JONES, H. M. & MCKEE, S.	391
MILGRAM, M. S.	The Generalized Integro-Exponential Function	443
MILLER, V. S.	*See*: LAGARIAS, J. C., MILLER, V. S. & ODLYZKO, A. M.	537
MILNER, F. A.	Mixed Finite Element Methods for Quasilinear Second-Order Elliptic Problems	303
MILOVANOVIĆ, GRADIMIR V.	*See*: GAUTSCHI, WALTER & MILOVANOVIĆ, GRADIMIR V.	177
MONTGOMERY, PETER L.	Modular Multiplication Without Trial Division	519
NEWMAN, D. J.	A Simplified Version of the Fast Algorithms of Brent and Salamin	207
ODLYZKO, A. M.	*See*: LAGARIAS, J. C., MILLER, V. S. & ODLYZKO, A. M.	537
OSHER, STANLEY, HAFEZ, MOHAMED & WHITLOW, WOODROW, JR.	Entropy Condition Satisfying Approximations for the Full Potential Equation of Transonic Flow	1
PARLETT, BERESFORD N., TAYLOR, DEREK R. & LIU, ZHISHUN A.	A Look-Ahead Lanczos Algorithm for Unsymmetric Matrices	105
PASQUINI, L. & TRIGIANTE, D.	A Globally Convergent Method for Simultaneously Finding Polynomial Roots	135
PATTERSON, C. D. & WILLIAMS, H. C.	Some Periodic Continued Fractions With Long Periods	523
POHST, M.	*See*: FINCKE, U. & POHST, M.	463
RAUGEL, GENEVIÈVE	*See*: BERNARDI, CHRISTINE & RAUGEL, GENEVIÈVE	71
REICHEL, LOTHAR	On Polynomial Approximation in the Complex Plane with Application to Conformal Mapping	425
ROBERTS, JEAN E.	*See*: DOUGLAS, JIM, JR. & ROBERTS, JEAN E.	39
SAAD, YOUCEF & SCHULTZ, MARTIN H.	Conjugate Gradient-Like Algorithms for Solving Nonsymmetric Linear Systems	417
SCHEID, ROBERT E., JR.	Difference Methods for Problems With Different Time Scales	81
SCHONBEK, MARIA E.	Second-Order Conservative Schemes and the Entropy Condition	31
SCHOOF, RENÉ	Elliptic Curves Over Finite Fields and the Computation of Square Roots mod p	483
SCHULTZ, MARTIN H.	*See*: SAAD, YOUCEF & SCHULTZ, MARTIN H.	417
SHEINGORN, M.	*See*: LEHNER, J. & SHEINGORN, M.	233
SHRAGER, RICHARD I.	A Rapid Robust Rootfinder	151
STEPHENS, A. B.	*See*: AZIZ, A. K., KELLOGG, R. B. & STEPHENS, A. B.	53

Author	*Title*	*Page*
STINSON, D. R. & FERCH, H.	2000000 Steiner Triple Systems of Order 19	533
TADMOR, EITAN	*See*: GOLDBERG, MOSHE & TADMOR, EITAN	361
TAYLOR, DEREK R.	*See*: PARLETT, BERESFORD N., TAYLOR, DEREK R. & LIU, ZHISHUN A.	105
TRIGIANTE, D.	*See*: PASQUINI, L. & TRIGIANTE, D.	135
TURUNEN, REINO	*See*: ENNOLA, VEIKKO & TURUNEN, REINO	495
WEBER, M.	*See*: GRAMAIN, F. & WEBER, M.	241
WEISER, A.	*See*: BANK, R. E. & WEISER, A.	283
WEISS, RICHARD	*See*: DE HOOG, FRANK & WEISS, RICHARD	93
WHITLOW, WOODROW, JR.	*See*: OSHER, STANLEY, HAFEZ, MOHAMED & WHITLOW, WOODROW, JR.	1
WILLIAMS, H. C.	*See*: PATTERSON, C. D. & WILLIAMS, H. C.	523
WRIGHT, ALDEN H.	Finding All Solutions to a System of Polynomial Equations	125
WUNDERLICH, MARVIN C.	Implementing the Continued Fraction Factoring Algorithm on Parallel Machines	251
ZAGIER, DON B.	*See*: BUHLER, JOE P., GROSS, BENEDICT H. & ZAGIER, DON B.	473