

AUTHOR INDEX TO VOLUME 65

Author	Title	Page
ACCIARO, VINCENZO	Solvability of norm equations over cyclic number fields of prime degree	1663
ANGLIN, W. S.	Simultaneous Pell equations	355
BACH, ERIC, LUKES, RICHARD, SHALLIT, JEFFREY & WILLIAMS, H. C.	Results and estimates on pseudopowers	1737
BACH, ERIC & PERALTA, RENÉ	Asymptotic semismoothness probabilities	1701
BACH, ERIC & SORENSEN, JONATHAN	Explicit bounds for primes in residue classes	1717
BHATIA, RAJENDRA & LI, REN-CANG	On perturbations of matrix pencils with real spectra. II	637
DE BOOR, CARL	On the Sauer-Xu formula for the error in multivariate polynomial interpolation	1231
BORWEIN, PETER & ERDÉLYI, TAMÁS	The integer Chebyshev problem	661
BOSMA, WIEB & STEVENHAGEN, PETER	Density computations for real quadratic units	1327
BOUCHUT, F., BOURDARIAS, CH. & PERTHAME, B.	A MUSCL method satisfying all the numerical entropy inequalities	1439
BOURDARIAS, CH.	See BOUCHUT, F.	1439
BOYD, DAVID W.	On beta expansions for Pisot numbers	841
BOYD, DAVID W.	On the beta expansion for Salem numbers of degree 6	861
BRENNER, SUSANNE C.	Two-level additive Schwarz preconditioners for nonconforming finite element methods	897
BREZINA, MARIAN	See MANDEL, JAN	1387
BROWN, BRIENNE E. & GORDON, DANIEL M.	On sequences without geometric progressions	1749
BUCHMANN, JOHANNES & SHOUP, VICTOR	Constructing nonresidues in finite fields and the extended Riemann hypothesis	1311
BURTHE, RONALD JOSEPH, JR.	Further investigations with the strong probable prime test	373
CALL, GREGORY S. & SILVERMAN, JOSEPH H.	Computing the canonical height on K3 surfaces	259
CARSTENSEN, CARSTEN	Efficiency of a posteriori BEM-error estimates for first-kind integral equations on quasi-uniform meshes ..	69
CHEER, A. Y. & GOLDSTON, D. A.	Turán's pure power sum problem	1349
CHEN, GOONG	See DENG, YUANHUA	943
CHEN, ZHANGXIN, EWING, RICHARD E. & LAZAROV, RAYTCHO	Domain decomposition algorithms for mixed methods for second-order elliptic problems	467
CHUI, CHARLES K. & DE VILLIERS, JOHAN M.	Applications of optimally local interpolation to interpolatory approximants and compactly supported wavelets	99
CHUI, CHARLES K. & HONG, DONG	Construction of local C^1 quartic spline elements for optimal-order approximation	85

AUTHOR INDEX TO VOLUME 65

<i>Author</i>	<i>Title</i>	<i>Page</i>
CLARK, DAVID A.	Non-Galois cubic fields which are Euclidean but not norm-Euclidean	1675
COCKBURN, BERNARDO & GREMAUD, PIERRE-ALAIN	A priori error estimates for numerical methods for scalar conservation laws. Part I: The general approach ..	533
COHEN, HENRI	Hermite and Smith normal form algorithms over Dedekind domains	1681
COHN, HARVEY & MCKAY, JOHN	Spontaneous generation of modular invariants	1295
COOLS, RONALD & SLOAN, IAN H.	Minimal cubature formulae of trigonometric degree ..	1583
COUTSIAS, EVANGELOS A., HAGSTROM, THOMAS & TORRES, DAVID	An efficient spectral method for ordinary differential equations with rational function coefficients	611
COUTURE, RAYMOND & L'ECUYER, PIERRE	Orbits and lattices for linear random number generators with composite moduli	189
DABERKOW, M. & POHST, M.	On integral bases in relative quadratic extensions	319
DELEGLISE, M. & RIVAT, J.	Computing $\pi(x)$: the Meissel, Lehmer, Lagarias, Miller, Odlyzko method	235
DEMICHELIS, V.	Quasi-interpolatory splines based on Schoenberg points	1235
DENG, YUANHUA, CHEN, GOONG, NI, WEI-MING & ZHOU, JIANXIN	Boundary element monotone iteration scheme for semilinear elliptic partial differential equations	943
DE VILLIERS, JOHAN M.	See CHUI, CHARLES K.	99
DIMITROV, DIMITAR K.	Integration of polyharmonic functions	1269
DOMAN, B. G. S.	An asymptotic expansion for the incomplete beta function	1283
DUBNER, HARVEY	Large Sophie Germain primes	393
DUIJVESTIJN, A. J. W.	The number of polyhedral (3-connected planar) graphs	1289
DUIJVESTIJN, A. J. W.	Simple perfect squared squares and 2×1 squared rectangles of order 26	1359
EICHENAUER-HERRMANN, JÜRGEN & EMMERICH, FRANK	Compound inversive congruential pseudorandom numbers: an average-case analysis	215
EKL, RANDY L.	Equal sums of four seventh powers	1755
EMMERICH, FRANK	See EICHENAUER-HERRMANN, JÜRGEN	215
EMMERICH, FRANK	Pseudorandom vector generation by the compound inversive method	749
ERDÉLYI, TAMÁS	See BORWEIN, PETER	661
ERDŐS, P. & LEWIN, MORDECHAI	d -complete sequences of integers	837
EWING, RICHARD E.	See CHEN, ZHANGXIN	467
FAROUKI, R. T. & GOODMAN, T. N. T.	On the optimal stability of the Bernstein basis	1553
FLAMMANG, V.	Two new points in the spectrum of the absolute Mahler measure of totally positive algebraic integers	307
FRENCH, DONALD A. & PETERSON, TODD E.	A continuous space-time finite element method for the wave equation	491

AUTHOR INDEX TO VOLUME 65

<i>Author</i>	<i>Title</i>	<i>Page</i>
FUKUDA, TAKASHI	Cyclotomic units and Greenberg's conjecture for real quadratic fields	1339
FUKUDA, T. & KOMATSU, K.	A capitulation problem and Greenberg's conjecture on real quadratic fields	313
GAÁL, ISTVÁN	Computing all power integral bases in orders of totally real cyclic sextic number fields	801
GAUTSCHI, WALTER & LI, SHIKANG	On quadrature convergence of extended Lagrange interpolation	1249
GAUTSCHI, WALTER & NOTARIS, SOTIRIOS E.	Stieltjes polynomials and related quadrature formulae for a class of weight functions	1257
GAYLE, R. C. & WOLFE, J. M.	Unicity in piecewise polynomial L^1 -approximation via an algorithm	647
GOLDSTON, D. A.	See CHEER, A. Y.	1349
GOODMAN, T. N. T.	See FAROUKI, R. T.	1553
GORDON, DANIEL M.	See BROWN, BRIENNE E.	1749
GORI, LAURA & MICCHELLI, CHARLES A.	On weight functions which admit explicit Gauss-Turán quadrature formulas	1567
GREMAUD, PIERRE-ALAIN	See COCKBURN, BERNARDO	533
HAGSTROM, THOMAS	See COUTSIAS, EVANGELOS A.	611
HALPERN, LAURENCE	Spectral methods in polar coordinates for the Stokes problem. Application to computation in unbounded domains	507
HAN, WEN BAO	The coefficients of primitive polynomials over finite fields	331
HEINRICH, S.	Efficient algorithms for computing the L_2 -discrepancy	1621
HONG, DONG	See CHUI, CHARLES K.	85
INDLEKOFER, KARL-HEINZ & JÁRAI, ANTAL	Largest known twin primes	427
IRIBARREN, GABRIEL	See RIVARA, MARÍA-CECILIA	1485
JÁRAI, ANTAL	See INDLEKOFER, KARL-HEINZ	427
JEPSEN, CHARLES H.	Dissections of $p : q$ rectangles	771
JOE, BARRY	See LIU, ANWEI	1183
JOE, S.	See LYNESS, J. N.	165
KATO, TAKASHI, WU, LI-MING & YANAGIHARA, NIRO	On a nonlinear congruential pseudorandom number generator	227
KATO, TAKASHI, WU, LI-MING & YANAGIHARA, NIRO	The serial test for a nonlinear pseudorandom number generator	761
KEIPER, J. B.	On the zeros of the Ramanujan τ -Dirichlet series in the critical strip	1613
KLOUČEK, PETR, LI, BO & LUSKIN, MITCHELL	Analysis of a class of nonconforming finite elements for crystalline microstructures	1111
KOMATSU, K.	See FUKUDA, T.	313
KUIJLAARS, ARNO B. J.	The zeros of Faber polynomials generated by an m -star	151
L'ECUYER, PIERRE	See COUTURE, RAYMOND	189

AUTHOR INDEX TO VOLUME 65

<i>Author</i>	<i>Title</i>	<i>Page</i>
L'ECUYER, PIERRE	Maximally equidistributed combined Tausworthe generators	203
LANGTRY, T. N.	An application of diophantine approximation to the construction of rank-1 lattice quadrature rules	1635
LAURIE, DIRK P.	Anti-Gaussian quadrature formulas	739
LAWTON, W., LEE, S. L. & SHEN, ZUOWEI	An algorithm for matrix extension and wavelet construction	723
LAZAROV, RAYTCHO	See CHEN, ZHANGXIN	467
LÉCOT, CHRISTIAN	Error bounds for quasi-Monte Carlo integration with nets	179
LEE, S. L.	See LAWTON, W.	723
LEWIN, MORDECHAI	See ERDŐS, P.	837
LI, Bo	See KLOUČEK, PETR	1111
LI, REN-CANG	See BHATIA, RAJENDRA	637
LI, SHIKANG	See GAUTSCHI, WALTER	1249
LI, T. Y. & WANG, XIAOSHEN	The BKK root count in C^n	1477
LIU, ANWEI & JOE, BARRY	Quality local refinement of tetrahedral meshes based on 8-subtetrahedron subdivision	1183
LIU, HAILIANG & WANG, JINGHUA	Nonlinear stability of stationary discrete shocks for nonconvex scalar conservation laws	1137
LÖH, GÜNTER & NIEBUHR, WOLFGANG	A new algorithm for constructing large Carmichael numbers	823
LUBICH, CH., SLOAN, I. H. & THOMÉE, V.	Nonsmooth data error estimates for approximations of an evolution equation with a positive-type memory term	1
LUKES, R. F., PATTERSON, C. D. & WILLIAMS, H. C.	Some results on pseudosquares	361
LUKES, RICHARD	See BACH, ERIC	1737
LUSKIN, MITCHELL	See KLOUČEK, PETR	1111
LYNESS, J. N. & JOE, S.	Triangular canonical forms for lattice rules of prime-power order	165
MALMLIDEN, JOHAN F. & PETERSSON, N. ANDERS	A fast iterative method to compute the flow around a submerged body	1067
MALTA, IACI, SALDANHA, NICOLAU C. & TOMEI, CARLOS	The numerical inversion of functions from the plane to the plane	1531
MANDEL, JAN & BREZINA, MARIAN	Balancing domain decomposition for problems with large jumps in coefficients	1387
VON MATT, URS & STEWART, G. W.	Rounding errors in solving block Hessenberg systems .	115
MCKAY, JOHN	See COHN, HARVEY	1295
MICCHELLI, CHARLES A.	See GORI, LAURA	1567
MIGNOTTE, MAURICE, PETHÖ, ATTILA & ROTH, RALF	Complete solutions of a family of quartic Thue and index form equations	341

AUTHOR INDEX TO VOLUME 65

<i>Author</i>	<i>Title</i>	<i>Page</i>
MORGAN, RONALD B.	On restarting the Arnoldi method for large nonsymmetric eigenvalue problems	1213
NESSYAHU, HAIM	Convergence rate of approximate solutions to weakly coupled nonlinear systems	575
NI, WEI-MING	See DENG, YUANHUA	943
NICOLAIDES, R. A. & WU, X.	Analysis and convergence of the MAC scheme. II. Navier-Stokes equations	29
NIEBUHR, WOLFGANG	See LÖH, GÜNTER	823
NOELLE, SEBASTIAN	A note on entropy inequalities and error estimates for higher-order accurate finite volume schemes on irregular families of grids	1155
NOTARIS, SOTIRIOS E.	See GAUTSCHI, WALTER	1257
OSWALD, PETER	Preconditioners for nonconforming discretizations	923
PALAMARA ORSI, ANNAMARIA	Product integration for Volterra integral equations of the second kind with weakly singular kernels	1201
PAPAGEORGIOU, G.	See PAPAKOSTAS, S. N.	1165
PAPAKOSTAS, S. N. & PAPAGEORGIOU, G.	A family of fifth-order Runge-Kutta pairs	1165
PATTERSON, C. D.	See LUKES, R. F.	361
PEARSON, KIMBERLY	Integral cohomology and detection of w -basic 2-groups	291
PERALTA, RENÉ	See BACH, ERIC	1701
PERTHAME, B.	See BOUCHUT, F.	1439
PESZYŃSKA, MAŁGORZATA	Finite element approximation of diffusion equations with convolution terms	1019
PETERSON, TODD E.	See FRENCH, DONALD A.	491
PETERSSON, N. ANDERS	See MALMLIDEN, JOHAN F.	1067
PETHÖ, ATTILA	See MIGNOTTE, MAURICE	341
POHST, M.	See DABERKOW, M.	319
QUAK, EWALD	Trigonometric wavelets for Hermite interpolation	683
RAMARÉ, OLIVIER & RUMELY, ROBERT	Primes in arithmetic progressions	397
RIVARA, MARÍA-CECILIA & IRIBARREN, GABRIEL	The 4-triangles longest-side partition of triangles and linear refinement algorithms	1485
RIVAT, J.	See DELEGLISE, M.	235
RODRÍGUEZ, RODOLFO & SOLOMIN, JORGE E.	The order of convergence of eigenfrequencies in finite element approximations of fluid-structure interaction problems	1463
RON, AMOS & SUN, XINGPING	Strictly positive definite functions on spheres in euclidean spaces	1513
ROTH, RALF	See MIGNOTTE, MAURICE	341
RUMELY, ROBERT	See RAMARÉ, OLIVIER	397
RUMP, S. M.	Expansion and estimation of the range of nonlinear functions	1503
RUSTEN, TORGEIR, VASSILEVSKI, PANAYOT S. & WINTHER, RAGNAR	Interior penalty preconditioners for mixed finite element approximations of elliptic problems	447
SALDANHA, NICOLAU C.	See MALTA, IACI	1531

AUTHOR INDEX TO VOLUME 65

<i>Author</i>	<i>Title</i>	<i>Page</i>
SCHATZ, ALFRED H. & WANG, JUNPING	Some new error estimates for Ritz-Galerkin methods with minimal regularity assumptions	19
SCHWAB, CHRISTOPH & SURI, MANIL	The p and hp versions of the finite element method for problems with boundary layers	1403
SHALLIT, JEFFREY	See BACH, ERIC	1737
SHEN, JIE	On error estimates of the projection methods for the Navier-Stokes equations: Second-order schemes ...	1039
SHEN, ZUOWEI	See LAWTON, W.	723
SHOUP, VICTOR	See BUCHMANN, JOHANNES	1311
SILVERMAN, JOSEPH H.	See CALL, GREGORY S.	259
SLOAN, I. H.	See LUBICH, CH.	1
SLOAN, IAN H.	See COOLS, RONALD	1583
SMITH, DAVID M.	A multiple-precision division algorithm	157
SOLOMIN, JORGE E.	See RODRÍGUEZ, RODOLFO	1463
SORENSEN, JONATHAN	See BACH, ERIC	1717
STEVENHAGEN, PETER	See BOSMA, WIEB	1327
STEVENSON, ROB	The frequency decomposition multilevel method: A ro- bust additive hierarchical basis preconditioner ...	983
STEWART, G. W.	See von MATT, URS	115
STRELA, V. V. & TYRTYSHNIKOV, E. E.	Which circulant preconditioner is better?	137
STYNES, MARTIN	See SUN, GUANGFU	1085
SUN, GUANGFU & STYNES, MARTIN	A uniformly convergent method for a singularly perturbed semilinear reaction-diffusion problem with multiple solutions	1085
SUN, XINGPING	See RON, AMOS	1513
SURI, MANIL	See SCHWAB, CHRISTOPH	1403
TAYA, HISAO	Computation of \mathbb{Z}_3 -invariants of real quadratic fields .	779
THOMÉE, V.	See LUBICH, CH.	1
TOMEI, CARLOS	See MALTA, IACI	1531
TORRES, DAVID	See COUTSIAS, EVANGELOS A.	611
TYRTYSHNIKOV, E. E.	See STRELA, V. V.	137
URABE, TOHSUKE	Calculation of Manin's invariant for Del Pezzo surfaces	247
VAN KEER, R.	See VANMAELE, M.	999
VANMAELE, M. & VAN KEER, R.	On a variational approximation method for a class of elliptic eigenvalue problems in composite structures	999
VASSILEVSKI, PANAYOT S.	See RUSTEN, TORGEIR	447
WAGNER, CHRISTIAN	Class number 5, 6 and 7	785
WAGSTAFF, SAMUEL S., JR.	Aurifeuillian factorizations and the period of the Bell numbers modulo a prime	383
WANG, JINGHUA	See LIU, HAILIANG	1137
WANG, JUNPING	See SCHATZ, ALFRED H.	19
WANG, XIAOSHEN	See Li, T. Y.	1477
WILLIAMS, H. C.	See LUKES, R. F.	361

AUTHOR INDEX TO VOLUME 65

<i>Author</i>	<i>Title</i>	<i>Page</i>
WILLIAMS, H. C.	See BACH, ERIC	1737
WINther, RAGNAR	See RUSTEN, TORGEIR	447
WOLFE, J. M.	See GAYLE, R. C.	647
WU, LI-MING	See KATO, TAKASHI	227
Wu, Li-Ming	See KATO, TAKASHI	761
WU, X.	See NICOLAIDES, R. A.	29
XU, YUESHENG & ZHAO, YUNHE	An extrapolation method for a class of boundary integral equations	587
XU, YU-LIN	Fast evaluation of the Gaunt coefficients	1601
YANAGIHARA, NIRO	See KATO, TAKASHI	227
YANAGIHARA, NIRO	See KATO, TAKASHI	761
YANG, HUANAN	On wavewise entropy inequalities for high-resolution schemes. I: The semidiscrete case	45
ZHANG, ZHIMIN	Ultraconvergence of the patch recovery technique	1431
ZHAO, YUNHE	See XU, YUESHENG	587
ZHOU, JIANXIN	See DENG, YUANHUA	943

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Classification</i>	<i>Page</i>
ABELL, MARTHA L. & BRASELTON, JAMES P.	18	68-01, 68Q40	881
ABELL, MARTHA L. & BRASELTON, JAMES P.	46	00A20, 68Q40	1764
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	65F05, 65F15, 65F20, 65F35, 65Y05, 65Y20, 65Y99	1763
AXELSSON, OWE	21	65-02, 65F05, 65F10	886
BAI, Z.	45	See ANDERSON, E.	1757
BAILEY, DAVID H., BJØRSTAD, PETTER E., GILBERT, JOHN R., MASCAGNI, MICHAEL V., SCHREIBER, ROBERT S., SIMON, HORST D., TORCZON, VIRGINIA J. & WATSON, LAYNE T. (EDITORS)	12	65-06, 65Y05	440
BAIOCCHI, C.	2	See LIONS, J.-L.	430
BANKS, H. T. (EDITOR)	3	49-02, 70-08, 70Q05	430
BINI, DARIO & PAN, VICTOR Y.	22	15A06, 65F05, 68Q25	888
BISCHOF, C.	45	See ANDERSON, E.	1763
BJØRSTAD, PETTER E.	12	See BAILEY, DAVID H.	440
BRASELTON, JAMES P.	18	See ABELL, MARTHA L.	881
BRASELTON, JAMES P.	46	See ABELL, MARTHA L.	1764
BRENNER, SUSANNE C. & SCOTT, L. RIDGWAY	14	65-01, 65N30, 65N55, 73Cxx	877
BRIGGS, WILLIAM L. & HENSON, VAN EMDEN	33	39A05, 44A12, 65T10, 94A12	1371
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	01A70, 65-06, 65F10, 65T20, 76W05, 83-06, 83C05, 85-06	432
BUTUZOV, VALENTIN F.	30	See VASIL'EVA, ADELAIDA B.	1366
CHU, MOODY T.	6	See BROWN, J. DAVID	432
CHUI, CHARLES K., MONTEFUSCO, LAURA & PUCCIO, LUIGIA (EDITORS)	24	41-06, 41A30, 41A99, 65-06	890
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	65-00, 41-00, 41A05, 41A21, 41A55, 41A65, 65C05, 65H05, 65T20, 73C50, 73V20	429
CIARLET, PHILIPPE G., TRABUCHO, Luís & VIAÑO, JUAN M. (EDITORS)	40	73-06, 73K05, 73K10, 73K15, 73V25	1760
COHEN, GARY (EDITOR)	31	65-06, 76-06, 78-06, 35L05, 65C20	1369

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Classification</i>	<i>Page</i>
COHEN, HENRI	13	11-01, 11Yxx	440
COOMBES, KEVIN R., HUNT, BRIAN R., LIPSMAN, RONALD L., OSBORN, JOHN E. & STUCK, GARRETT J.	32	34-01, 34-04	1369
COX, EARL	4	94-01, 94D05	431
DU CROZ, J.	45	See ANDERSON, E.	1763
DEMMLER, J.	45	See ANDERSON, E.	1763
DEUFLHARD, PETER & HOHMANN, ANDREAS	38	65-01, 65Bxx, 65Cxx, 65Dxx, 65Fxx, 65Gxx	1757
DIKSHIT, H. P. & MICCHELLI, C. A. (EDITORS)	5	41-06, 65-06, 42-06, 46-06	432
DONGARRA, J.	45	See ANDERSON, E.	1763
DONGARRA, JACK J. & TOURANCHEAU, BERNARD (EDITORS)	16	65-06, 65Y05	879
ELLISON, DONALD C.	6	See BROWN, J. DAVID	432
FARIN, GERALD E.	25	65-01, 65D07, 65Y25, 68U07	891
FIUME, EUGENE	43	65-01, 68-01, 68U05	1761
FOUFOULA-GEORGIOU, EFI & KUMAR, PRAVEEN (EDITORS)	9	42-06, 42C10, 86-06, 86-08	436
FRIEDMAN, AVNER & LITTMAN, WALTER	15	00A69, 34-01, 35-01, 65-01	878
GANDER, WALTER & HŘEBÍČEK, JIŘÍ	17	68-01, 65-01	880
GILBERT, JOHN R.	12	See BAILEY, DAVID H.	440
GREENBAUM, A.	45	See ANDERSON, E.	1763
HAMMARLING, S.	45	See ANDERSON, E.	1763
HENSON, VAN EMDEN	33	See BRIGGS, WILLIAM L.	1371
HOHMANN, ANDREAS	38	See DEUFLHARD, PETER	1757
HŘEBÍČEK, JIŘÍ	17	See GANDER, WALTER	880
HUNT, BRIAN R.	32	See COOMBES, KEVIN R.	1369
KALACHEV, LEONID V.	30	See VASIL'eva, ADELAIDA B.	1366
KRISHNA, BAL	27	See KRISHNA, HARI	893
KRISHNA, HARI, KRISHNA, BAL, LIN, KUO-YU & SUN, JENN-DONG	27	12Y05, 65T10, 94B05	893
KRÍZEK, M., NEITTAANMÄKI, P. & STENBERG, R. (EDITORS)	29	65-06, 65M60, 65N30	1365
KUMAR, PRAVEEN	9	See FOUFOULA-GEORGIOU, EFI	436
LAU, H. T.	34	65-00, 65-04	1371
LAURENT, PIERRE-JEAN, LE MÉHAUTÉ, ALAIN & SCHUMAKER, LARRY L. (EDITORS)	7	41-06, 41A15, 65-06, 65D07, 65D10	435

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

LIDL, RUDOLF & NIEDERREITER, HARALD	36	11Txx, 94A60, 94B60	1376
LIN, KUO-YU	27	See KRISHNA, HARI	893
LIONS, J.-L.	1	See CIARLET, P. G.	429
LIONS, J.-L. & BAIOCCHI, C. (EDITORS)	2	65-06, 65Nxx	430
LIPSMAN, RONALD L.	32	See COOMBES, KEVIN R.	1369
LITTMAN, WALTER	15	See FRIEDMAN, AVNER	878
MANGASARIAN, OLVI L.	19	49-02, 49K40, 65K05	884
MASCAGNI, MICHAEL V.	12	See BAILEY, DAVID H.	440
MCKENNEY, A.	45	See ANDERSON, E.	1763
LE MÉAUTÉ, ALAIN	7	See LAURENT, PIERRE-JEAN	435
MICCHELLI, C. A.	5	See DIKSHIT, H. P.	432
MICCHELLI, CHARLES A.	23	65-02, 65D17	889
MLOVANOVIC, G. V., MITRINOVIC, D. S. & RASSIAS, TH. M.	10	41-02, 41A17, 26C05, 26C10, 26Dxx	438
MITRINOVIC, D. S.	10	See MLOVANOVIC, G. V.	438
MOLENAAR, J.	39	65N30, 65N50, 65N55, 82D99	1758
MONTEFUSCO, LAURA	24	See CHUI, CHARLES K.	890
NEITTAANMÄKI, P.	29	See KRÍZEK, M.	1365
NEMIROVSKII, ARKADII	20	See NESTEROV, YURII	884
NESTEROV, YURII & NEMIROVSKII, ARKADII	20	49-02, 49M35, 49M45, 65K05	884
NIEDERREITER, HARALD	36	See LIDL, RUDOLF	1376
OSBORN, JOHN E.	32	See COOMBES, KEVIN R.	1369
OSTROUCHOV, S.	45	See ANDERSON, E.	1763
PAN, VICTOR Y.	22	See BINI, DARIO	888
PLEMMONS, ROBERT J.	6	See BROWN, J. DAVID	432
PLIS, ALEXANDER I.	41	See SHIKIN, EUGENE V.	1760
PLOUFEE, SIMON	28	See SLOANE, N. J. A.	894
PUCCIO, LUIGIA	24	See CHUI, CHARLES K.	890
RASSIAS, TH. M.	10	See MLOVANOVIC, G. V.	438
RIESEL, HANS	37	11-02, 11Y05, 11Y11, 11Y16, 11Y35, 11Y40	1377
RUBIO, J. E.	11	49-02, 49J10, 65K10	439
SABOT, GARY W. (EDITOR)	44	65-02, 65Yxx	1763
SAPIDIS, NICKOLAS S. (EDITOR)	26	65-06, 65D05, 65D07, 65D17	892
SCHREIBER, ROBERT S.	12	See BAILEY, DAVID H.	440
SCHUMAKER, LARRY L.	7	See LAURENT, PIERRE-JEAN	435
SCOTT, L. RIDGWAY	14	See BRENNER, SUSANNE C.	877
SHIKIN, EUGENE V. & PLIS, ALEXANDER I.	41	65-00, 65-04, 41-00, 41-04, 41A15	1760
SIMON, HORST D.	12	See BAILEY, DAVID H.	440

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

SLOANE, N. J. A. & PLOUFEE, SIMON	28	11-00, 11B83	894
SOBOL', ILYA M.	42	65-01, 65C05, 65C10	1761
SORENSEN, D.	45	See ANDERSON, E.	1763
STENBERG, R.	29	See KŘÍŽEK, M.	1365
STEPANOV, SERGUEI A.	47	11-02, 11Gxx	1767
STUCK, GARRETT J.	32	See COOMBES, KEVIN R.	1369
SUN, JENN-DONG	27	See KRISHNA, HARI	893
TORCZON, VIRGINIA J.	12	See BAILEY, DAVID H.	440
TOURANCHEAU, BERNARD	16	See DONGARRA, JACK J.	879
TRABUCHO, LUÍS	40	See CIARLET, PHILIPPE G.	1760
VASIL'eva, ADELAIDA B., BUTUZOV, VALENTIN F. & KALACHEV, LEONID V.	30	34E15, 35B25, 73U05, 78A30, 80A25, 92C20	1366
VIAÑO, JUAN M.	40	See CIARLET, PHILIPPE G.	1760
WATSON, LAYNE T.	12	See BAILEY, DAVID H.	440
WICKERHAUSER, MLADEN VICTOR	8	41-04, 41A30, 42A38, 65D99, 68U10	436
ZAHAR, R. V. M. (EDITOR)	35	01A70, 33-XX, 33C45, 41-XX, 41A55	1372

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
00-XX General			
00A20 Dictionaries and other general reference works			
ABELL, MARTHA L. & BRASELTON, JAMES P.	46	The Maple V handbook	1764
00A69 General applied mathematics			
FRIEDMAN, AVNER & LITTMAN, WALTER	15	Industrial mathematics: A course in solving real-world problems	878
01-XX History and biography			
01A70 Biographies, obituaries, personalia, bibliographies			
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432
ZAHAR, R. V. M. (EDITOR)	35	Approximation and computation: A festschrift in honor of Walter Gautschi	1372
11-XX Number theory			
11-00 General reference works			
SLOANE, N. J. A. & PLOUFEE, SIMON	28	The encyclopedia of integer sequences	894
11-01 Instructional exposition			
COHEN, HENRI	13	A course in computational algebraic number theory	440

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
11-02 Research exposition			
RIESEL, HANS	37	Prime numbers and computer methods for factorization	1377
STEPANOV, SERGUEI A.	47	Arithmetic of algebraic curves	1767
11B83 Special sequences and polynomials			
SLOANE, N. J. A. & PLOUFEE, SIMON	28	The encyclopedia of integer sequences	894
11Gxx Arithmetic algebraic geometry			
STEPANOV, SERGUEI A.	47	Arithmetic of algebraic curves	1767
11Txx Finite fields and commutative rings			
LIDL, RUDOLF & NIEDERREITER, HARALD	36	Introduction to finite fields and their applications	1376
11Yxx Computational number theory			
COHEN, HENRI	13	A course in computational algebraic number theory	440
11Y05 Factorization			
RIESEL, HANS	37	Prime numbers and computer methods for factorization	1377
11Y11 Primality			
RIESEL, HANS	37	Prime numbers and computer methods for factorization	1377
11Y16 Algorithms; complexity			
RIESEL, HANS	37	Prime numbers and computer methods for factorization	1377
11Y35 Analytic computations			
RIESEL, HANS	37	Prime numbers and computer methods for factorization	1377
11Y40 Algebraic number theory computations			
RIESEL, HANS	37	Prime numbers and computer methods for factorization	1377
12-XX Field theory and polynomials			
12Y05 Computational aspects of field theory and polynomials			
KRISHNA, HARI, KRISHNA, BAL, LIN, KUO-YU & SUN, JENN-DONG	27	Computational number theory and digital signal processing: Fast algorithms and error control techniques	893
15-XX Linear and multilinear algebra; matrix theory			
15A06 Linear equations			
BINI, DARIO & PAN, VICTOR Y.	22	Polynomial and matrix computations: Fundamental algorithms, Vol. 1	888

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
26-XX Real functions			
26C05 <i>Polynomials: analytic properties, etc.</i>			
MILOVANOVIĆ, G. V., MITRINOVIĆ, D. S. & RASSIAS, TH. M.	10	Topics in polynomials: extremal problems, inequalities, zeros	438
26C10 <i>Polynomials: location of zeros</i>			
MILOVANOVIĆ, G. V., MITRINOVIĆ, D. S. & RASSIAS, TH. M.	10	Topics in polynomials: extremal problems, inequalities, zeros	438
26Dxx <i>Inequalities</i>			
MILOVANOVIĆ, G. V., MITRINOVIĆ, D. S. & RASSIAS, TH. M.	10	Topics in polynomials: extremal problems, inequalities, zeros	438
33-XX Special functions			
ZAHAR, R. V. M. (EDITOR)	35	Approximation and computation: A festschrift in honor of Walter Gautschi	1372
33C45 <i>Orthogonal polynomials and functions</i>			
ZAHAR, R. V. M. (EDITOR)	35	Approximation and computation: A festschrift in honor of Walter Gautschi	1372
34-XX Ordinary differential equations			
34-01 <i>Instructional exposition</i>			
COOMBES, KEVIN R., HUNT, BRIAN R., LIPSMAN, RONALD L., OSBORN, JOHN E. & STUCK, GARRETT J.	32	Differential equations with Mathematica	1369
FRIEDMAN, AVNER & LITTMAN, WALTER	15	Industrial mathematics: A course in solving real-world problems	878
34-04 <i>Explicit machine computation and programs</i>			
COOMBES, KEVIN R., HUNT, BRIAN R., LIPSMAN, RONALD L., OSBORN, JOHN E. & STUCK, GARRETT J.	32	Differential equations with Mathematica	1369
34E15 <i>Singular perturbations, general theory</i>			
VASIL'eva, ADELAIDA B., BUTUZOV, VALENTIN F. & KALACHEV, LEONID V.	30	The boundary function method for singular perturbation problems	1366
35-XX Partial differential equations			
35-01 <i>Instructional exposition</i>			
FRIEDMAN, AVNER & LITTMAN, WALTER	15	Industrial mathematics: A course in solving real-world problems	878
35B25 <i>Singular perturbations</i>			
VASIL'eva, ADELAIDA B., BUTUZOV, VALENTIN F. & KALACHEV, LEONID V.	30	The boundary function method for singular perturbation problems	1366

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
35L05 Wave equation			
COHEN, GARY (EDITOR)	31	Mathematical and numerical aspects of wave propagation	1369
39-XX Finite differences and functional equations			
39A05 General			
BRIGGS, WILLIAM L. & HENSON, VAN EMDEN	33	The DFT: An owner's manual for the discrete Fourier transform	1371
41-XX Approximations and expansions			
ZAHAR, R. V. M. (EDITOR)	35	Approximation and computation: A festschrift in honor of Walter Gautschi	1372
41-00 General reference works			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
SHIKIN, EUGENE V. & PLIS, ALEXANDER I.	41	Handbook on splines for the user	1760
41-02 Research exposition			
MILOVANOVIĆ, G. V., MITRINOVIĆ, D. S. & RASSIAS, TH. M.	10	Topics in polynomials: extremal problems, inequalities, zeros	438
41-04 Explicit machine computation and programs			
SHIKIN, EUGENE V. & PLIS, ALEXANDER I.	41	Handbook on splines for the user	1760
WICKERHAUSER, MLADEN VICTOR	8	Adapted wavelet analysis from theory to software	436
41-06 Proceedings, conferences, collections, etc.			
CHUI, CHARLES K., MONTEFUSCO, LAURA & PUCCIO, LUIGIA (EDITORS)	24	Wavelets: theory, algorithms, and applications	890
DIKSHIT, H. P. & MICCHELLI, C. A. (EDITORS)	5	Advances in computational mathematics: New Delhi, India	432
LAURENT, PIERRE-JEAN, LE MÉHAUTÉ, ALAIN & SCHUMAKER, LARRY L. (EDITORS)	7	Curves and surfaces in geometric design	435
41A05 Interpolation			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
41A15 Spline approximation			
LAURENT, PIERRE-JEAN, LE MÉHAUTÉ, ALAIN & SCHUMAKER, LARRY L. (EDITORS)	7	Curves and surfaces in geometric design	435
SHIKIN, EUGENE V. & PLIS, ALEXANDER I.	41	Handbook on splines for the user	1760

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
41A17 Inequalities in approximation			
MILOVANOVIĆ, G. V., MITRINOVICIĆ, D. S. & RASSIAS, TH. M.	10	Topics in polynomials: extremal problems, inequalities, zeros	438
41A21 Padé approximation			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
41A30 Approximation by other special function classes			
CHUI, CHARLES K., MONTEFUSCO, LAURA & PUCCIO, LUIGIA (EDITORS)	24	Wavelets: theory, algorithms, and applica- tions	890
WICKERHAUSER, MLADEN VICTOR	8	Adapted wavelet analysis from theory to software	436
41A55 Approximate quadratures			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
ZAHAR, R. V. M. (EDITOR)	35	Approximation and computation: A festschrift in honor of Walter Gautschi	1372
41A65 Abstract approximation theory			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
41A99 Miscellaneous topics			
CHUI, CHARLES K., MONTEFUSCO, LAURA & PUCCIO, LUIGIA (EDITORS)	24	Wavelets: theory, algorithms, and applica- tions	890
42-XX Fourier analysis			
42-06 Proceedings, conferences, collections, etc.			
DIKSHIT, H. P. & MICCHELLI, C. A. (EDITORS)	5	Advances in computational mathematics: New Delhi, India	432
FOUFOULA-GEORGIOU, EFI & KUMAR, PRAVEEN (EDITORS)	9	Wavelets in geophysics	436
42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type			
WICKERHAUSER, MLADEN VICTOR	8	Adapted wavelet analysis from theory to software	436
42C10 Fourier series in special orthogonal functions			
FOUFOULA-GEORGIOU, EFI & KUMAR, PRAVEEN (EDITORS)	9	Wavelets in geophysics	436
44-XX Integral transforms, operational calculus			
44A12 Radon transform			
BRIGGS, WILLIAM L. & HENSON, VAN EMDEN	33	The DFT: An owner's manual for the discrete Fourier transform	1371

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
46-XX Functional analysis			
46-06 <i>Proceedings, conferences, collections, etc.</i>			
DIKSHIT, H. P. & MICCHELLI, C. A. (EDITORS)	5	Advances in computational mathematics: New Delhi, India	432
49-XX Calculus of variations and optimal control; optimization			
49-02 <i>Research exposition</i>			
BANKS, H. T. (EDITOR)	3	Control and estimation in distributed parameter systems	430
MANGASARIAN, OLVI L.	19	Nonlinear programming	884
NESTEROV, YURII & NEMIROVSKII, ARKADII	20	Interior-point polynomial algorithms in convex programming	884
RUBIO, J. E.	11	Optimization and nonstandard analysis	439
49J10 <i>Free problems in two or more independent variables</i>			
RUBIO, J. E.	11	Optimization and nonstandard analysis	439
49K40 <i>Sensitivity of optimal solutions in the presence of perturbations</i>			
MANGASARIAN, OLVI L.	19	Nonlinear programming	884
49M35 <i>Methods of linear programming type</i>			
NESTEROV, YURII & NEMIROVSKII, ARKADII	20	Interior-point polynomial algorithms in convex programming	884
49M45 <i>Methods of convex programming type</i>			
NESTEROV, YURII & NEMIROVSKII, ARKADII	20	Interior-point polynomial algorithms in convex programming	884
65-XX Numerical analysis			
65-00 <i>General reference works</i>			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
LAU, H. T.	34	A numerical library in C for scientists and engineers	1371
SHIKIN, EUGENE V. & PLIS, ALEXANDER I.	41	Handbook on splines for the user	1760
65-01 <i>Instructional exposition</i>			
BRENNER, SUSANNE C. & SCOTT, L. RIDGWAY	14	The mathematical theory of finite element methods	877
DEUFLHARD, PETER & HOHMANN, ANDREAS	38	Numerical analysis: A first course in scientific computation	1757
FARIN, GERALD E.	25	NURB curves and surfaces: from projective geometry to practical use	891
FIUME, EUGENE	43	An introduction to scientific, symbolic, and graphical computation	1761
FRIEDMAN, AVNER & LITTMAN, WALTER	15	Industrial mathematics: A course in solving real-world problems	878

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
GANDER, WALTER & HŘEBÍČEK, JIŘÍ	17	Solving problems in scientific computing using MAPLE and MATLAB	880
SOBOL', ILYA M.	42	A primer for the Monte Carlo method	1761
	65-02	<i>Research exposition</i>	
AXELSSON, OWE	21	Iterative solution methods	886
MICCHELLI, CHARLES A.	23	Mathematical aspects of geometrical modeling	889
SABOT, GARY W. (EDITOR)	44	High performance computing—Problem solving with parallel and vector architectures	1763
	65-04	<i>Explicit machine computation and programs</i>	
LAU, H. T.	34	A numerical library in C for scientists and engineers	1371
SHIKIN, EUGENE V. & PLIS, ALEXANDER I.	41	Handbook on splines for the user	1760
	65-06	<i>Proceedings, conferences, collections, etc.</i>	
BAILEY, DAVID H., BJØRSTAD, PETTER E., GILBERT, JOHN R., MASCAGNI, MICHAEL V., SCHREIBER, ROBERT S., SIMON, HORST D., TORCZON, VIRGINIA J. & WATSON, LAYNE T. (EDITORS)	12	Parallel processing for scientific computing	440
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432
CHUI, CHARLES K., MONTEFUSCO, LAURA & PUCCIO, LUIGIA (EDITORS)	24	Wavelets: theory, algorithms, and applications	890
COHEN, GARY (EDITOR)	31	Mathematical and numerical aspects of wave propagation	1369
DIKSHIT, H. P. & MICCHELLI, C. A. (EDITORS)	5	Advances in computational mathematics: New Delhi, India	432
DONGARRA, JACK J. & TOURANCHEAU, BERNARD (EDITORS)	16	Environments and tools for parallel scientific computing	879
KŘÍŽEK, M., NEITTAANMÄKI, P. & STENBERG, R. (EDITORS)	29	Finite element methods: Fifty years of the Courant element	1365
LAURENT, PIERRE-JEAN, LE MÉHAUTÉ, ALAIN & SCHUMAKER, LARRY L. (EDITORS)	7	Curves and surfaces in geometric design	435
LIONS, J.-L. & BAIOCCHI, C. (EDITORS)	2	Boundary value problems for partial differential equations and applications	430
SAPIDIS, NICKOLAS S. (EDITOR)	26	Designing fair curves and surfaces	892

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
65Bxx Acceleration of convergence			
DEUFLHARD, PETER & HOHMANN, ANDREAS	38	Numerical analysis: A first course in scientific computation	1757
65Cxx Numerical simulation			
DEUFLHARD, PETER & HOHMANN, ANDREAS	38	Numerical analysis: A first course in scientific computation	1757
65C05 Monte Carlo methods			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
SOBOL', ILYA M.	42	A primer for the Monte Carlo method	1761
65C10 Random number generation			
SOBOL', ILYA M.	42	A primer for the Monte Carlo method	1761
65C20 Models, numerical methods			
COHEN, GARY (EDITOR)	31	Mathematical and numerical aspects of wave propagation	1369
65Dxx Numerical approximation			
DEUFLHARD, PETER & HOHMANN, ANDREAS	38	Numerical analysis: A first course in scientific computation	1757
65D05 Interpolation			
SAPIDIS, NICKOLAS S. (EDITOR)	26	Designing fair curves and surfaces	892
65D07 Splines			
FARIN, GERALD E.	25	NURB curves and surfaces: from projective geometry to practical use	891
LAURENT, PIERRE-JEAN, LE MÉHAUTÉ, ALAIN & SCHUMAKER, LARRY L. (EDITORS)	7	Curves and surfaces in geometric design	435
SAPIDIS, NICKOLAS S. (EDITOR)	26	Designing fair curves and surfaces	892
65D10 Smoothing, curve fitting			
LAURENT, PIERRE-JEAN, LE MÉHAUTÉ, ALAIN & SCHUMAKER, LARRY L. (EDITORS)	7	Curves and surfaces in geometric design	435
65D17 Computer aided design			
MICCHELLI, CHARLES A.	23	Mathematical aspects of geometrical mod- eling	889
SAPIDIS, NICKOLAS S. (EDITOR)	26	Designing fair curves and surfaces	892
65D99 None of the above, but in this section			
WICKERHAUSER, MLADEN VICTOR	8	Adapted wavelet analysis from theory to software	436

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
65Fxx Numerical linear algebra			
DEUFLHARD, PETER & HOHMANN, ANDREAS	38	Numerical analysis: A first course in scientific computation	1757
65F05 Direct methods for linear systems and matrix inversion			
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	LAPACK users' guide	1763
AXELSSON, OWE	21	Iterative solution methods	886
BINI, DARIO & PAN, VICTOR Y.	22	Polynomial and matrix computations: Fundamental algorithms, Vol. 1	888
65F10 Iterative methods for linear systems			
AXELSSON, OWE	21	Iterative solution methods	886
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432
65F15 Eigenvalues, eigenvectors			
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	LAPACK users' guide	1763
65F20 Overdetermined systems, pseudoinverses			
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	LAPACK users' guide	1763
65F35 Matrix norms, conditioning, scaling			
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	LAPACK users' guide	1763

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
65Gxx Error analysis			
DEUFLHARD, PETER & HOHMANN, ANDREAS	38	Numerical analysis: A first course in scientific computation	1757
65H05 Single equations			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
65K05 Mathematical programming			
MANGASARIAN, OLVI L.	19	Nonlinear programming	884
NESTEROV, YURII & NEMIROVSKII, ARKADII	20	Interior-point polynomial algorithms in convex programming	884
65K10 Optimization and variational techniques			
RUBIO, J. E.	11	Optimization and nonstandard analysis	439
65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods			
KŘÍŽEK, M., NEITTAANMÄKI, P. & STENBERG, R. (EDITORS)	29	Finite element methods: Fifty years of the Courant element	1365
65Nxx Partial differential equations, boundary value problems			
LIONS, J.-L. & BAIOCCHI, C. (EDITORS)	2	Boundary value problems for partial differ- ential equations and applications	430
65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods			
BRENNER, SUSANNE C. & SCOTT, L. RIDGWAY	14	The mathematical theory of finite element methods	877
KŘÍŽEK, M., NEITTAANMÄKI, P. & STENBERG, R. (EDITORS)	29	Finite element methods: Fifty years of the Courant element	1365
MOLENAAR, J.	39	Multigrid methods for semiconductor device simulation	1758
65N50 Mesh generation and refinement			
MOLENAAR, J.	39	Multigrid methods for semiconductor device simulation	1758
65N55 Multigrid methods; domain decomposition			
BRENNER, SUSANNE C. & SCOTT, L. RIDGWAY	14	The mathematical theory of finite element methods	877
MOLENAAR, J.	39	Multigrid methods for semiconductor device simulation	1758
65T10 Trigonometric approximation and interpolation			
BRIGGS, WILLIAM L. & HENSON, VAN EMDEN	33	The DFT: An owner's manual for the discrete Fourier transform	1371
KRISHNA, HARI, KRISHNA, BAL, LIN, KUO-YU & SUN, JENN-DONG	27	Computational number theory and digital signal processing: Fast algorithms and error control techniques	893
65T20 Discrete and fast Fourier transforms			
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
<i>65Yxx Computer aspects of numerical algorithms</i>			
SABOT, GARY W. (EDITOR)	44	High performance computing—Problem solving with parallel and vector architectures	1763
<i>65Y05 Parallel computation</i>			
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	LAPACK users' guide	1763
BAILEY, DAVID H., BJØRSTAD, PETTER E., GILBERT, JOHN R., MASCAGNI, MICHAEL V., SCHREIBER, ROBERT S., SIMON, HORST D., TORCZON, VIRGINIA J. & WATSON, LAYNE T. (EDITORS)	12	Parallel processing for scientific computing	440
DONGARRA, JACK J. & TOURANCHEAU, BERNARD (EDITORS)	16	Environments and tools for parallel scientific computing	879
<i>65Y20 Complexity and performance of numerical algorithms</i>			
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	LAPACK users' guide	1763
<i>65Y25 Computer graphics and computational geometry</i>			
FARIN, GERALD E.	25	NURB curves and surfaces: from projective geometry to practical use	891
<i>65Y99 None of the above, but in this section</i>			
ANDERSON, E., BAI, Z., BISCHOF, C., DEMMEL, J., DONGARRA, J., DU CROZ, J., GREENBAUM, A., HAMMARLING, S., MCKENNEY, A., OSTROUCHOV, S. & SORENSEN, D.	45	LAPACK users' guide	1763

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
68-XX Computer science			
68-01 Instructional exposition			
ABELL, MARTHA L. & BRASELTON, JAMES P.	18	Maple V by example	881
FIUME, EUGENE	43	An introduction to scientific, symbolic, and graphical computation	1761
GANDER, WALTER & HŘEBÍČEK, Jiří	17	Solving problems in scientific computing using MAPLE and MATLAB	880
68Q25 Analysis of algorithms and problem complexity			
BINI, DARIO & PAN, VICTOR Y.	22	Polynomial and matrix computations: Funda- mental algorithms, Vol. 1	888
68Q40 Symbolic computation, algebraic computation			
ABELL, MARTHA L. & BRASELTON, JAMES P.	18	Maple V by example	881
ABELL, MARTHA L. & BRASELTON, JAMES P.	46	The Maple V handbook	1764
68U05 Computer graphics; computational geometry			
FIUME, EUGENE	43	An introduction to scientific, symbolic, and graphical computation	1761
68U07 Computer-aided design			
FARIN, GERALD E.	25	NURB curves and surfaces: from projective geometry to practical use	891
68U10 Image processing			
WICKERHAUSER, MLADEN VICTOR	8	Adapted wavelet analysis from theory to software	436
70-XX Mechanics of particles and systems			
70-08 Computational methods			
BANKS, H. T. (EDITOR)	3	Control and estimation in distributed parameter systems	430
70Q05 Control of mechanical systems			
BANKS, H. T. (EDITOR)	3	Control and estimation in distributed parameter systems	430
73-XX Mechanics of solids			
73-06 Proceedings, conferences, collections, etc.			
CIARLET, PHILIPPE G., TRABUCHO, Luís & VIAÑO, JUAN M. (EDITORS)	40	Asymptotic methods for elastic struc- tures	1760
73Cxx Elasticity			
BRENNER, SUSANNE C. & SCOTT, L. RIDGWAY	14	The mathematical theory of finite element methods	877

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
73C50 Nonlinear elasticity			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
73K05 Beams, columns, rods			
CIARLET, PHILIPPE G., TRABUCHO, LUÍS & VIAÑO, JUAN M. (EDITORS)	40	Asymptotic methods for elastic structures	1760
73K10 Plates, discs, membranes			
CIARLET, PHILIPPE G., TRABUCHO, LUÍS & VIAÑO, JUAN M. (EDITORS)	40	Asymptotic methods for elastic structures	1760
73K15 Shells			
CIARLET, PHILIPPE G., TRABUCHO, LUÍS & VIAÑO, JUAN M. (EDITORS)	40	Asymptotic methods for elastic structures	1760
73U05 Thermomechanics of solids			
VASIL'EVA, ADELAIDA B., BUTUZOV, VALENTIN F. & KALACHEV, LEONID V.	30	The boundary function method for singular perturbation problems	1366
73V20 Other numerical methods			
CIARLET, P. G. & LIONS, J. L. (EDITORS)	1	Handbook of numerical analysis	429
73V25 Variational methods			
CIARLET, PHILIPPE G., TRABUCHO, LUÍS & VIAÑO, JUAN M. (EDITORS)	40	Asymptotic methods for elastic structures	1760
76-XX Fluid mechanics			
76-06 Proceedings, conferences, collections, etc.			
COHEN, GARY (EDITOR)	31	Mathematical and numerical aspects of wave propagation	1369
76W05 Magnetohydrodynamics and electrohydrodynamics			
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432
78-XX Optics, electromagnetic theory			
78-06 Proceedings, conferences, collections, etc.			
COHEN, GARY (EDITOR)	31	Mathematical and numerical aspects of wave propagation	1369
78A30 Electro- and magnetostatics			
VASIL'EVA, ADELAIDA B., BUTUZOV, VALENTIN F. & KALACHEV, LEONID V.	30	The boundary function method for singular perturbation problems	1366

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
80-XX Classical thermodynamics, heat transfer			
80A25 <i>Combustion, interior ballistics</i>			
VASIL'eva, ADELAIDA B., BUTUZOV, VALENTIN F. & KALACHEV, LEONID V.	30	The boundary function method for singular perturbation problems	1366
82-XX Statistical mechanics, structure of matter			
82Dxx <i>Applications to specific types of physical systems</i>			
82D99 <i>None of the above, but in this section</i>			
MOLENAAR, J.	39	Multigrid methods for semiconductor device simulation	1758
83-XX Relativity and gravitational theory			
83-06 <i>Proceedings, conferences, collections, etc.</i>			
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432
83C05 <i>Einstein's equations</i>			
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432
85-XX Astronomy and astrophysics			
85-06 <i>Proceedings, conferences, collections, etc.</i>			
BROWN, J. DAVID, CHU, MOODY T., ELLISON, DONALD C. & PLEMMONS, ROBERT J. (EDITORS)	6	Proceedings of the Cornelius Lanczos international centenary conference	432
86-XX Geophysics			
86-06 <i>Proceedings, conferences, collections, etc.</i>			
FOUFOULA-GEORGIOU, EFI & KUMAR, PRAVEEN (EDITORS)	9	Wavelets in geophysics	436
86-08 <i>Computational methods</i>			
FOUFOULA-GEORGIOU, EFI & KUMAR, PRAVEEN (EDITORS)	9	Wavelets in geophysics	436
92-XX Biology and other natural sciences, behavioral sciences			
92C20 <i>Neural biology</i>			
VASIL'eva, ADELAIDA B., BUTUZOV, VALENTIN F. & KALACHEV, LEONID V.	30	The boundary function method for singular perturbation problems	1366

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

<i>Author</i>	<i>Review Number</i>	<i>Title</i>	<i>Page</i>
94-XX Information and communication, circuits			
94-01 Instructional exposition			
COX, EARL	4	The fuzzy systems handbook: A practitioner's guide to building, using, and maintaining fuzzy systems	431
94A12 Signal theory			
BRIGGS, WILLIAM L. & HENSON, VAN EMDEN	33	The DFT: An owner's manual for the discrete Fourier transform	1371
94A60 Cryptography			
LIDL, RUDOLF & NIEDERREITER, HARALD	36	Introduction to finite fields and their applications	1376
94B05 Linear codes, general			
KRISHNA, HARI, KRISHNA, BAL, LIN, KUO-YU & SUN, JENN-DONG	27	Computational number theory and digital signal processing: Fast algorithms and error control techniques	893
94B60 Other types of codes			
LIDL, RUDOLF & NIEDERREITER, HARALD	36	Introduction to finite fields and their applications	1376
94D05 Fuzzy sets and logic			
COX, EARL	4	The fuzzy systems handbook: A practitioner's guide to building, using, and maintaining fuzzy systems	431

INDEX OF ERRATA

<i>No.</i>	<i>Author</i>	<i>Title</i>	<i>Page</i>
626	APELBLAT, A.	Table of definite and infinite integrals	1386
622	ERDÉLYI, A. (EDITOR), MAGNUS, W., OBERHETTINGER, F. & TRICOMI, F. G. (RESEARCH ASSOCIATES)	Tables of integral transforms, Vol. I	1384
623	ERDÉLYI, A. (EDITOR), MAGNUS, W., OBERHETTINGER, F. & TRICOMI, F. G. (RESEARCH ASSOCIATES)	Tables of integral transforms, Vol. II	1385
624	ERDÉLYI, A. (EDITOR), MAGNUS, W., OBERHETTINGER, F. & TRICOMI, F. G. (RESEARCH ASSOCIATES)	Higher transcendental functions, Vol. I	1385
627	GRADSHTEYN, I. S. & RYZHIK, I. M.	Table of integrals, series, and products	1769
625	OBERHETTINGER, F.	Tables of Bessel transforms	1386

INDEX OF SUPPLEMENTS

619	PRUDNIKOV, A. P., BRYCHKOV, YU. A. & MARICHEV, O. I.	Integrals and series, Vol. 1, Elementary functions	1380
620	PRUDNIKOV, A. P., BRYCHKOV, YU. A. & MARICHEV, O. I.	Integrals and series, Vol. 2, Special functions	1382
621	PRUDNIKOV, A. P., BRYCHKOV, YU. A. & MARICHEV, O. I.	Integrals and series, Vol. 3, More special functions	1384
618	WEBER, HEINRICH	Lehrbuch der Algebra, Vol. 3	1379

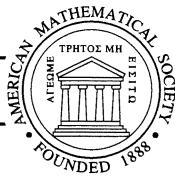
INDEX OF CORRIGENDA

Author	Title	Page
BEYER, W. A., ROOF, R. B. & WILLIAMSON, DOROTHY	The lattice structure of multiplicative congruential pseudo-random vectors	445

INDEX OF SUPPLEMENTS

Author	Title	Issue
BOYD, DAVID W.	Supplement to “On the beta expansion for Salem numbers of degree 6”	Apr.
LANGTRY, T. N.	An application of Diophantine approximation to the construction of rank-1 lattice quadrature rules (microfiche supplement)	Oct.
LUKES, R. F., PATTERSON, C. D. & WILLIAMS, H. C.	Supplement to “Some results on pseudosquares”	Jan.
URABE, TOHSUKE	Supplement to “Calculation of Manin’s invariant for Del Pezzo surfaces”	Jan.
YANG, HUANAN	Supplement to “On wavewise entropy inequalities for high resolution schemes I: The semidiscrete case”	Jan.

VOLUME 65



1996

MATHEMATICS OF COMPUTATION

A M E R I C A N M A T H E M A T I C A L S O C I E T Y

EDITED BY

James H. Bramble
Susanne C. Brenner
Howard Elman
Richard S. Falk
Walter Gautschi
Daniel W. Lozier
James N. Lyness
Harald Niederreiter
Syvert P. Nørsett
Andrew M. Odlyzko
John E. Osborn
Stanley Osher
Carl Pomerance
René Schoof
L. Ridgway Scott
Daniel Shanks
Chi-Wang Shu
Frank Stenger
Hans J. Stetter
G. W. Stewart
Nico M. Temme
Vidar Thomée
Lars B. Wahlbin, *Managing Editor*
Joseph D. Ward
Hugh C. Williams
John W. Wrench, Jr.
Stephen J. Wright

PROVIDENCE, RHODE ISLAND USA

ISSN 0025-5718

MATHEMATICS OF COMPUTATION
CONTENTS

Vol. 65, No. 213

January 1996

Ch. Lubich, I. H. Sloan, and V. Thomée, Nonsmooth data error estimates for approximations of an evolution equation with a positive-type memory term	1
Alfred H. Schatz and Junping Wang, Some new error estimates for Ritz-Galerkin methods with minimal regularity assumptions	19
R. A. Nicolaides and X. Wu, Analysis and convergence of the MAC scheme. II. Navier-Stokes equations	29
Huanan Yang, On wavewise entropy inequalities for high-resolution schemes. I: The semidiscrete case	45
Carsten Carstensen, Efficiency of a posteriori BEM-error estimates for first-kind integral equations on quasi-uniform meshes	69
Charles K. Chui and Dong Hong, Construction of local C^1 quartic spline elements for optimal-order approximation	85
Charles K. Chui and Johan M. De Villiers, Applications of optimally local interpolation to interpolatory approximants and compactly supported wavelets	99
Urs von Matt and G. W. Stewart, Rounding errors in solving block Hessenberg systems	115
V. V. Strela and E. E. Tyrtyshnikov, Which circulant preconditioner is better?	137
Arno B. J. Kuijlaars, The zeros of Faber polynomials generated by an m -star	151
David M. Smith, A multiple-precision division algorithm	157
J. N. Lyness and S. Joe, Triangular canonical forms for lattice rules of prime-power order	165
Christian Lécot, Error bounds for quasi-Monte Carlo integration with nets	179
Raymond Couture and Pierre L'Ecuyer, Orbits and lattices for linear random number generators with composite moduli	189
Pierre L'Ecuyer, Maximally equidistributed combined Tausworthe generators	203
Jürgen Eichenauer-Herrmann and Frank Emmerich, Compound inversive congruential pseudorandom numbers: an average-case analysis	215
Takashi Kato, Li-Ming Wu, and Niro Yanagihara, On a nonlinear congruential pseudorandom number generator	227
M. Deleglise and J. Rivat, Computing $\pi(x)$: the Meissel, Lehmer, Lagarias, Miller, Odlyzko method	235
Tohsuke Urabe, Calculation of Manin's invariant for Del Pezzo surfaces ..	247
Gregory S. Call and Joseph H. Silverman, Computing the canonical height on K3 surfaces	259
Kimberly Pearson, Integral cohomology and detection of w -basic 2-groups ..	291
V. Flammang, Two new points in the spectrum of the absolute Mahler measure of totally positive algebraic integers	307

T. Fukuda and K. Komatsu , A capitulation problem and Greenberg's conjecture on real quadratic fields	313
M. Daberkow and M. Pohst , On integral bases in relative quadratic extensions	319
Wen Bao Han , The coefficients of primitive polynomials over finite fields	331
Maurice Mignotte, Attila Pethö, and Ralf Roth , Complete solutions of a family of quartic Thue and index form equations	341
W. S. Anglin , Simultaneous Pell equations	355
R. F. Lukes, C. D. Patterson, and H. C. Williams , Some results on pseudosquares	361
Ronald Joseph Burthe, Jr. , Further investigations with the strong probable prime test	373
Samuel S. Wagstaff, Jr. , Aurifeuillian factorizations and the period of the Bell numbers modulo a prime	383
Harvey Dubner , Large Sophie Germain primes	393
Olivier Ramaré and Robert Rumely , Primes in arithmetic progressions	397
Karl-Heinz Indlekofer and Antal Járai , Largest known twin primes ..	427
Reviews and Descriptions of Tables and Books	429
Ciarlet and Lions, Editors 1 , Lions and Baiocchi, Editors 2 , Banks, Editor 3 , Cox 4 , Dikshit and Micchelli, Editors 5 , Brown, Chu, Ellison, and Plemons, Editors 6 , Laurent, le Méhauté, and Schumaker, Editors 7 , Wickenhauser 8 , Foufoula-Georgiou and Kumar, Editors 9 , Milovanović, Mitrinović, and Rassias 10 , Rubio 11 , Bailey, Bjørstad, Gilbert, Mascagni, Schreiber, Simon, Torczon, and Watson, Editors 12 , Cohen 13	
Corrigendum	445
Beyer, Roof, and Williamson	
Supplement to "On wavewise entropy inequalities for high-resolution schemes. I: The semidiscrete case" by Huanan Yang	S1
Supplement to "Calculation of Manin's invariant for Del Pezzo surfaces" by Tohsuke Urabe	S15
Supplement to "Some results on pseudosquares" by R. F. Lukes, C. D. Patterson, and H. C. Williams	S25

Vol. 65, No. 214

April 1996

Torgeir Rusten, Panayot S. Vassilevski, and Ragnar Winther , Interior penalty preconditioners for mixed finite element approximations of elliptic problems	447
Zhangxin Chen, Richard E. Ewing, and Raytcho Lazarov , Domain decomposition algorithms for mixed methods for second-order elliptic problems	467
Donald A. French and Todd E. Peterson , A continuous space-time finite element method for the wave equation	491

Laurence Halpern , Spectral methods in polar coordinates for the Stokes problem. Application to computation in unbounded domains	507
Bernardo Cockburn and Pierre-Alain Gremaud , A priori error estimates for numerical methods for scalar conservation laws. Part I: The general approach	533
Haim Nessyahu , Convergence rate of approximate solutions to weakly coupled nonlinear systems	575
Yuesheng Xu and Yunhe Zhao , An extrapolation method for a class of boundary integral equations	587
Evangelos A. Coutsias, Thomas Hagstrom, and David Torres , An efficient spectral method for ordinary differential equations with rational function coefficients	611
Rajendra Bhatia and Ren-Cang Li , On perturbations of matrix pencils with real spectra. II	637
R. C. Gayle and J. M. Wolfe , Unicity in piecewise polynomial L^1 -approximation via an algorithm	647
Peter Borwein and Tamás Erdélyi , The integer Chebyshev problem ..	661
Ewald Quak , Trigonometric wavelets for Hermite interpolation	683
W. Lawton, S. L. Lee, and Zuowei Shen , An algorithm for matrix extension and wavelet construction	723
Dirk P. Laurie , Anti-Gaussian quadrature formulas	739
Frank Emmerich , Pseudorandom vector generation by the compound inversive method	749
Takashi Kato, Li-Ming Wu, and Niro Yanagihara , The serial test for a nonlinear pseudorandom number generator	761
Charles H. Jepsen , Dissections of $p : q$ rectangles	771
Hisao Taya , Computation of \mathbb{Z}_3 -invariants of real quadratic fields	779
Christian Wagner , Class number 5, 6 and 7	785
István Gaál , Computing all power integral bases in orders of totally real cyclic sextic number fields	801
Günter Löh and Wolfgang Niebuhr , A new algorithm for constructing large Carmichael numbers	823
P. Erdős and Mordechai Lewin , d -complete sequences of integers	837
David W. Boyd , On beta expansions for Pisot numbers	841
David W. Boyd , On the beta expansion for Salem numbers of degree 6 ..	861
Reviews and Descriptions of Tables and Books	877
Brenner and Scott 14 , Friedman and Littman 15 , Dongarra and Tourancheau, Editors 16 , Gander and Hřebíček 17 , Abell and Braselton 18 , Mangasarian 19 , Nesterov and Nemirovskii 20 , Axelsson 21 , Bini and Pan 22 , Micchelli 23 , Chui, Montefusco and Puccio, Editors 24 , Farin 25 , Sapidis, Editor 26 , Krishna, Krishna, Lin and Sun 27 , Sloane and Plouffe 28	
Supplement to “On the beta expansion for Salem numbers of degree 6” by David W. Boyd	S29

Susanne C. Brenner , Two-level additive Schwarz preconditioners for nonconforming finite element methods	897
Peter Oswald , Preconditioners for nonconforming discretizations	923
Yuanhua Deng, Goong Chen, Wei-Ming Ni, and Jianxin Zhou , Boundary element monotone iteration scheme for semilinear elliptic partial differential equations	943
Rob Stevenson , The frequency decomposition multilevel method: A robust additive hierarchical basis preconditioner	983
M. Vanmaele and R. Van Keer , On a variational approximation method for a class of elliptic eigenvalue problems in composite structures	999
Małgorzata Peszyńska , Finite element approximation of diffusion equations with convolution terms	1019
Jie Shen , On error estimates of the projection methods for the Navier-Stokes equations: Second-order schemes	1039
Johan F. Malmsten and N. Anders Petersson , A fast iterative method to compute the flow around a submerged body	1067
Guangfu Sun and Martin Stynes , A uniformly convergent method for a singularly perturbed semilinear reaction-diffusion problem with multiple solutions	1085
Petr Klouček, Bo Li and Mitchell Luskin , Analysis of a class of nonconforming finite elements for crystalline microstructures	1111
Hailiang Liu and Jinghua Wang , Nonlinear stability of stationary discrete shocks for nonconvex scalar conservation laws	1137
Sebastian Noelle , A note on entropy inequalities and error estimates for higher-order accurate finite volume schemes on irregular families of grids	1155
S. N. Papakostas and G. Papageorgiou , A family of fifth-order Runge-Kutta pairs	1165
Anwei Liu and Barry Joe , Quality local refinement of tetrahedral meshes based on 8-subtetrahedron subdivision	1183
Annamaria Palamara Orsi , Product integration for Volterra integral equations of the second kind with weakly singular kernels	1201
Ronald B. Morgan , On restarting the Arnoldi method for large non-symmetric eigenvalue problems	1213
Carl de Boor , On the Sauer-Xu formula for the error in multivariate polynomial interpolation	1231
V. Demichelis , Quasi-interpolatory splines based on Schoenberg points ..	1235
Walter Gautschi and Shikang Li , On quadrature convergence of extended Lagrange interpolation	1249

Walter Gautschi and Sotirios E. Notaris , Stieltjes polynomials and related quadrature formulae for a class of weight functions	1257
Dimitar K. Dimitrov , Integration of polyharmonic functions	1269
B.G.S. Doman , An asymptotic expansion for the incomplete beta function	1283
A. J. W. Duijvestijn , The number of polyhedral (3-connected planar) graphs	1289
Harvey Cohn and John McKay , Spontaneous generation of modular invariants	1295
Johannes Buchmann and Victor Shoup , Constructing nonresidues in finite fields and the extended Riemann hypothesis	1311
Wieb Bosma and Peter Stevenhagen , Density computations for real quadratic units	1327
Takashi Fukuda , Cyclotomic units and Greenberg's conjecture for real quadratic fields	1339
A. Y. Cheer and D. A. Goldston , Turán's pure power sum problem ...	1349
A.J.W. Duijvestijn , Simple perfect squared squares and 2×1 squared rectangles of order 26	1359
Reviews and Descriptions of Tables and Books	1365
Křížek, Neittaanmäki, and Stenberg, Editors 29 , Vasil'eva, Butuzov, and Kalachev 30 , Cohen, Editor 31 , Coombes, Hunt, Lipsman, Osborn, and Stuck 32 , Briggs and Henson 33 , Lau 34 , Zahar, Editor 35 , Lidl and Niederreiter 36 , Riesel 37	
Table Errata	1379
Weber 618 , Prudnikov, Brychkov, and Marichev 619 , Prudnikov, Brychkov, and Marichev 620 , Prudnikov, Brychkov, and Marichev 621 , Erdélyi, Editor, Magnus, Oberhettinger, and Tricomi, research associates 622 , Erdélyi, Editor, Magnus, Oberhettinger, and Tricomi, research associates 623 , Erdélyi, Editor, Magnus, Oberhettinger, and Tricomi, research associates 624 , Oberhettinger 625 , Apelblat 626	

Vol. 65, No. 216

October 1996

Jan Mandel and Marian Brezina , Balancing domain decomposition for problems with large jumps in coefficients	1387
Christoph Schwab and Manil Suri , The p and hp versions of the finite element method for problems with boundary layers	1403
Zhimin Zhang , Ultraconvergence of the patch recovery technique	1431
F. Bouchut, Ch. Bourdarias, and B. Perthame , A MUSCL method satisfying all the numerical entropy inequalities	1439
Rodolfo Rodríguez and Jorge E. Solomin , The order of convergence of eigenfrequencies in finite element approximations of fluid-structure interaction problems	1463
T. Y. Li and Xiaoshen Wang , The BKK root count in \mathbf{C}^n	1477
María-Cecilia Rivara and Gabriel Iribarren , The 4-triangles longest-side partition of triangles and linear refinement algorithms	1485

S. M. Rump , Expansion and estimation of the range of nonlinear functions	1503
Amos Ron and Xingping Sun , Strictly positive definite functions on spheres in Euclidean spaces	1513
Iaci Malta, Nicolau C. Saldanha, and Carlos Tomei , The numerical inversion of functions from the plane to the plane	1531
R. T. Farouki and T. N. T. Goodman , On the optimal stability of the Bernstein basis	1553
Laura Gori and Charles A. Micchelli , On weight functions which admit explicit Gauss-Turán quadrature formulas	1567
Ronald Cools and Ian H. Sloan , Minimal cubature formulae of trigonometric degree	1583
Yu-lin Xu , Fast evaluation of the Gaunt coefficients	1601
J. B. Keiper , On the zeros of the Ramanujan τ -Dirichlet series in the critical strip	1613
S. Heinrich , Efficient algorithms for computing the L_2 -discrepancy	1621
T. N. Langtry , An application of Diophantine approximation to the construction of rank-1 lattice quadrature rules	1635
Vincenzo Acciaro , Solvability of norm equations over cyclic number fields of prime degree	1663
David A. Clark , Non-Galois cubic fields which are Euclidean but not norm-Euclidean	1675
Henri Cohen , Hermite and Smith normal form algorithms over Dedekind domains	1681
Eric Bach and René Peralta , Asymptotic semismoothness probabilities	1701
Eric Bach and Jonathan Sorenson , Explicit bounds for primes in residue classes	1717
Eric Bach, Richard Lukes, Jeffrey Shallit, and H. C. Williams , Results and estimates on pseudopowers	1737
Brienne E. Brown and Daniel M. Gordon , On sequences without geometric progressions	1749
Randy L. Ekl , Equal sums of four seventh powers	1755
Reviews and Descriptions of Tables and Books	1757
Deuflhard and Hohmann 38 , Molenaar 39 , Ciarlet, Trabucho, and Viaño, Editors 40 , Shikin and Plis 41 , Sobol' 42 , Fiume 43 , Sabot, Editor 44 , Anderson, Bai, Bischof, Demmel, Dongarra, du Croz, Greenbaum, Jammarling, McKenney, Ostrouhov, and Sorensen 45 , Abell and Braselton 46 , Stepanov 47	
Table Errata	1769
Gradshteyn and Ryzhik 627	
Microfiche Supplement	
T. N. Langtry , An application of Diophantine approximation to the construction of rank-1 lattice quadrature rules	