A Bibliography of Publications in *Journal of the Institute of Mathematics and Its Applications*

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References

Abd-Elal:1979:AER

[1] L. F. Abd-Elal. An asymptotic expansion for a regularization technique for numerical singular integrals and its application to Volterra integral equations. *Journal of the Institute of Mathematics and its Applications*, 23(3):291–309, 1979. CODEN JMTAA8. ISSN 0020-2932.

Abd-Elal:1976:RTC

[2] L. F. Abd-Elal and L. M. Delves. A regularization technique for a class of singular integral problems. *Journal of the Institute of Mathematics and its Applications*, 18(1):37–47, 1976. CODEN JMTAA8. ISSN 0020-2932.

Abdelmalek:1976:DLO

[3] N. N. Abdelmalek. The discrete linear one-sided Chebyshev approximation. *Journal of the Institute of Mathematics and its Applications*, 18(3):361–370, 1976. CODEN JMTAA8. ISSN 0020-2932.

Aboul-Atta:1978:ASI

[4] O. A. Aboul-Atta and E. Tomchuk. Approximations to surd integrals of the inverse Laplace transform type. *Journal of the Institute of Mathematics and its Applications*, 21(??):157–163, 1978. CODEN JMTAA8. ISSN 0020-2932.

Adam:1977:PCM

[5] Y. Adam. A predictor-corrector method for the numerical simulation of sea pollution. *Journal of the Institute of Mathematics and its Applications*, 19(3):295–305, 1977. CODEN JMTAA8. ISSN 0020-2932.

Advani:1969:WPI

[6] S. H. Advani. Wave propagation in an infinite plate. *Journal of the Institute of Mathematics and its Applications*, 5(??):271–282, 1969. CODEN JMTAA8. ISSN 0020-2932.

Aggarwal:1967:ABP

[7] J. K. Aggarwal. Amplitude bounds on periodic and aperiodic oscillations: Second-order systems. *Journal of the Institute of Mathematics and its Applications*, 3(??):202–215, 1967. CODEN JMTAA8. ISSN 0020-2932.

Ahluwalia:1969:DPW

[8] Daljit S. Ahluwalia and Robert M. Lewis. Diffraction of progressing waves by a screen. *Journal of the Institute of Mathematics and its Applications*, 5(??):113–139, 1969. CODEN JMTAA8. ISSN 0020-2932.

Ahner:1977:SIM

[9] J. F. Ahner. Scattering by an inhomogeneous medium. *Journal of the Institute of Mathematics and its Applications*, 19(4):425–439, 1977. CODEN JMTAA8. ISSN 0020-2932.

Aitchison:1977:NSM

[10] J. M. Aitchison. The numerical solution of a minimization problem associated with a free surface flow. *Journal of*

the Institute of Mathematics and its Applications, 20(1):33–44, 1977. CODEN JMTAA8. ISSN 0020-2932.

Albasiny:1966:SBP

[11] E. L. Albasiny and W. A. Day. Some best-possible error bounds in deformation theory. *Journal of the Institute of Mathematics and its Applications*, 2(??): 266–272, 1966. CODEN JMTAA8. ISSN 0020-2932.

Albasiny:1968:NSL

[12] E. L. Albasiny and W. A. Day. The numerical solution of linear one-dimensional parabolic problems by the method of moments. *Journal of the Institute of Mathematics and its Applications*, 4(??):140–162, 1968. CODEN JMTAA8. ISSN 0020-2932.

Albasiny:1969:FME

[13] E. L. Albasiny and W. A. Day. The forced motion of an extensible mooring cable. *Journal of the Institute of Mathematics and its Applications*, 5(??):55–71, 1969. CODEN JMTAA8. ISSN 0020-2932.

Albasiny:1971:NCO

[14] E. L. Albasiny and W. D. Hoskins. The numerical calculation of odd-degree polynomial splines with equi-spaced knots. *Journal of the Institute of Mathematics and its Applications*, 7(??):384–397, 1971. CODEN JMTAA8. ISSN 0020-2932.

Albasiny:1972:IAC

[15] E. L. Albasiny and W. D. Hoskins. Increased accuracy cubic spline solutions to two-point boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 9(??):47–55, 1972. CODEN JMTAA8. ISSN 0020-2932.

Albasiny:1973:EEB

[16] E. L. Albasiny and W. D. Hoskins. Explicit error bounds for periodic splines of odd order on a uniform mesh. *Journal of the Institute of Mathematics and its Applications*, 12(??):303–318, 1973. CODEN JMTAA8. ISSN 0020-2932.

Allami:1975:NIA

[17] K. Allami. A numerical investigation of acoustic diffraction by a circular aperture in a rigid screen. *Journal of the Institute of Mathematics and its Applications*, 16(3):371–380, 1975. CODEN JMTAA8. ISSN 0020-2932.

Allsop:1971:DMS

[18] Richard E. Allsop. Delay-minimizing settings for fixed-time traffic signals at a single road junction. *Journal of the Institute of Mathematics and its Applications*, 8(??):164–185, 1971. CODEN JMTAA8. ISSN 0020-2932.

Anderson:1973:VPR

[19] D. Anderson. Variational principles for the radiative transfer equation of single scattering. *Journal of the Institute of Mathematics and its Applications*, 12 (??):55–62, 1973. CODEN JMTAA8. ISSN 0020-2932.

Anderson:1974:CVP

[20] N. Anderson and A. M. Arthurs. Complementary variational principles for a class of non-linear diffusion equations. *Journal of the Institute of Mathematics and its Applications*, 13(??):153–159, 1974. CODEN JMTAA8. ISSN 0020-2932.

Anderson:1974:ULV

[21] N. Anderson and A. M. Arthurs. Upper and lower variational bounds for the fric-

tion factor Reynolds number product in laminar flow of a viscous fluid. *Journal of the Institute of Mathematics and its Applications*, 14(??):69–74, 1974. CODEN JMTAA8. ISSN 0020-2932.

Anderson:1969:PCV

[22] N. Anderson, A. M. Arthurs, and P. D. Robinson. Pairs of complementary variational principles. *Journal of the Institute of Mathematics and its Applications*, 5(4):422–431, 1969. CODEN JMTAA8. ISSN 0020-2932.

Anderson:1976:SET

[23] Oliver D. Anderson. Some eigen theory results for moving average time processes. *Journal of the Institute of Mathematics and its Applications*, 18(3):325–330, 1976. CODEN JMTAA8. ISSN 0020-2932.

Anderson:1973:QCA

[24] P. Anderson and G. Loizou. On the quadratic convergence of an algorithm which diagonalizes a complex symmetric matrix. *Journal of the Institute of Mathematics and its Applications*, 12 (??):261–271, 1973. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Anderssen:1976:SPI

[25] R. S. Anderssen. Stable procedures for the inversion of Abel's equation. *Journal of the Institute of Mathematics and its Applications*, 17(3):329–342, 1976. CODEN JMTAA8. ISSN 0020-2932.

Andrew:1979:ICD

[26] A. L. Andrew. Iterative computation of derivatives of eigenvalues and eigenvectors. *Journal of the Institute of Mathematics and its Applications*, 24(2):209–218, 1979. CODEN JMTAA8. ISSN 0020-2932.

Anis:1970:CRS

[27] A. A. Anis and S. S. Daoud. A continuous reservoir storage problem involving two streams. *Journal of the Institute of Mathematics and its Applications*, 6(??): 241–249, 1970. CODEN JMTAA8. ISSN 0020-2932.

Anis:1968:SSD

[28] A. A. Anis and A. S. T. El-Naggar. The storage-stationary distribution in the case of two streams. *Journal of the Institute of Mathematics and its Applications*, 4(??):223–231, 1968. CODEN JMTAA8. ISSN 0020-2932.

Arthur:1972:EBM

[29] D. W. Arthur. Extension of Bairstow's method for multiple quadratic factors. *Journal of the Institute of Mathematics and its Applications*, 9(??):194–197, 1972. CODEN JMTAA8. ISSN 0020-2932.

Arthur:1972:UIA

[30] D. W. Arthur. The use of interval arithmetic to bound the zeros of real polynomials. *Journal of the Institute of Mathematics and its Applications*, 10(??):231–237, 1972. CODEN JMTAA8. ISSN 0020-2932.

Arthur:1973:SFI

[31] D. W. Arthur. The solution of Fredholm integral equations using spline functions. *Journal of the Institute of Mathematics and its Applications*, 11(??):121–129, 1973. CODEN JMTAA8. ISSN 0020-2932.

Arthurs:1974:EBC

[32] A. M. Arthurs. Error bound for a class of non-linear problems in diffusion and reaction. *Journal of the Institute of Mathematics and its Applications*, 13(??):63–66, 1974. CODEN JMTAA8. ISSN 0020-2932.

Arthurs:1971:EBV

[33] A. M. Arthurs and C. W. Coles. Error bounds and variational methods for non-linear differential and integral equations. *Journal of the Institute of Mathematics and its Applications*, 7(??):324–330, 1971. CODEN JMTAA8. ISSN 0020-2932.

Arthurs:1974:MMP

[34] A. M. Arthurs and R. I. Reeves. Maximum and minimum principles for a class of partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 14(??):1–7, 1974. CODEN JMTAA8. ISSN 0020-2932.

Ashton:1971:DGR

[35] W. D. Ashton. Distributions for gaps in road traffic. *Journal of the Institute of Mathematics and its Applications*, 7(??):37–46, 1971. CODEN JMTAA8. ISSN 0020-2932.

Askey:1979:PCN

[36] R. Askey. Positivity of the Cotes numbers for some Jacobi abscissas. II. *Journal of the Institute of Mathematics and its Applications*, 24(1):95–98, 1979. CODEN JMTAA8. ISSN 0020-2932.

Asvestas:1970:LFSa

[37] J. S. Asvestas and R. E. Kleinman. Low frequency scattering by spheroids and disks. I: Dirichlet problem for a prolate spheroid. *Journal of the Institute of Mathematics and its Applications*, 6(??):42–56, 1970. CODEN JMTAA8. ISSN 0020-2932.

Asvestas:1970:LFSb

[38] J. S. Asvestas and R. E. Kleinman. Low frequency scattering by spheroids and disks. II: Neumann problem for a prolate spheroid. *Journal of the Institute of Mathematics and its Applications*, 6(??):57–75, 1970. CODEN JMTAA8. ISSN 0020-2932.

Asvestas:1970:LFSc

[39] J. S. Asvestas and R. E. Kleinman. Low frequency scattering by spheroids and disks. III: Oblate spheroids and disks. *Journal of the Institute of Mathematics and its Applications*, 6(??):157–163, 1970. CODEN JMTAA8. ISSN 0020-2932.

Atanackovic:1978:OCD

[40] T. M. Atanackovic. Optimal control of dynamically controllable motions: an example. *Journal of the Institute of Mathematics and its Applications*, 21 (??):293–299, 1978. CODEN JMTAA8. ISSN 0020-2932.

Atkin:1976:CTM

[41] R. J. Atkin and R. E. Craine. Continuum theories of mixtures: Applications. *Journal of the Institute of Mathematics and its Applications*, 17(2):153–207, 1976. CODEN JMTAA8. ISSN 0020-2932.

Atkinson:1977:SSS

[42] C. Atkinson and C. J. Coleman. On some steady-state moving boundary problems in the linear theory of viscoelasticity. *Journal of the Institute of Mathematics and its Applications*, 20

(??):85–106, 1977. CODEN JMTAA8. ISSN 0020-2932.

Atkinson:1980:ESI

[43] C. Atkinson and H. Javaherian. Evaluation of stress intensity factors associated with bimaterial cracks. *Journal of the Institute of Mathematics and its Applications*, 26(3):235–258, 1980. CODEN JMTAA8. ISSN 0020-2932.

Atthey:1974:FDS

[44] D. R. Atthey. A finite difference scheme for melting problems. *Journal of the Institute of Mathematics and its Applications*, 13(??):353–366, 1974. CODEN JMTAA8. ISSN 0020-2932.

Axelsson:1973:NNS

[45] O. Axelsson. Notes on the numerical solution of the biharmonic equation. *Journal of the Institute of Mathematics and its Applications*, 11(??):213–226, 1973. CODEN JMTAA8. ISSN 0020-2932.

Axelsson:1979:MUS

[46] O. Axelsson and I. Gustafsson. A modified upwind scheme for convective transport equations and the use of a conjugate gradient method for the solution of non-symmetric systems of equations. *Journal of the Institute of Mathematics and its Applications*, 23(??):321–337, 1979. CODEN JMTAA8. ISSN 0020-2932.

Babolian:1979:AGM

[47] E. Babolian and L. M. Delves. An augmented Galerkin method for first kind Fredholm equations. *Journal of the Institute of Mathematics and its Applications*, 24(2):157–174, 1979. CODEN JMTAA8. ISSN 0020-2932.

Backhouse:1975:RAA

[48] R. C. Backhouse and B. A. Carré. Regular Algebra applied to path-finding problems. *Journal of the Institute of Mathematics and its Applications*, 15(??):161–186, 1975. CODEN JMTAA8. ISSN 0020-2932.

Bain:1978:UCG

[49] M. Bain. On the uniform convergence of generalized Fourier series. *Journal of the Institute of Mathematics and its Applications*, 21(??):379–386, 1978. CODEN JMTAA8. ISSN 0020-2932.

Bain:1978:RCM

[50] M. Bain, L. M. Delves, and K. O. Mead. On the rate of convergence of multi-dimensional orthogonal expansions. *Journal of the Institute of Mathematics and its Applications*, 22(2):225–234, 1978. CODEN JMTAA8. ISSN 0020-2932.

Ball:1972:TOC

[51] D. J. Ball and J. R. Hewit. The time optimal control of a class of distributed systems. *Journal of the Institute of Mathematics and its Applications*, 10(??):193–201, 1972. CODEN JMTAA8. ISSN 0020-2932.

Banks:1977:SFI

[52] S. P. Banks. On the solutions of Fredholm integral equations of the first kind in L^2. *Journal of the Institute of Mathematics and its Applications*, 20(2):143–150, 1977. CODEN JMTAA8. ISSN 0020-2932.

Bareiss:1972:CSM

[53] Erwin H. Bareiss. Computational solutions of matrix problems over an integral domain. *Journal of the Institute*

of Mathematics and its Applications, 10 (??):68–104, August 1972. CODEN JMTAA8. ISSN 0020-2932.

Barnett:1971:NFT

[54] S. Barnett. A new formulation of the theorems of Hurwitz, Routh and Sturm. *Journal of the Institute of Mathematics and its Applications*, 8(??):240–250, 1971. CODEN JMTAA8. ISSN 0020-2932.

Barnett:1968:SAL

[55] S. Barnett and C. Storey. Some applications of the Lyapunov matrix equation. *Journal of the Institute of Mathematics and its Applications*, 4(??):33–42, 1968. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Barnhill:1975:EAG

[56] R. E. Barnhill and J. R. Whiteman. Error analysis of Galerkin methods for Dirichlet problems containing boundary singularities. *Journal of the Institute of Mathematics and its Applications*, 15 (??):121–125, 1975. CODEN JMTAA8. ISSN 0020-2932.

Barnsley:1974:DVP

[57] M. F. Barnsley and P. D. Robinson. Dual variational principles and Padé-type approximants. *Journal of the Institute of Mathematics and its Applications*, 14(??):229–249, 1974. CODEN JMTAA8. ISSN 0020-2932.

Barnsley:1974:PAB

[58] M. F. Barnsley and P. D. Robinson. Padé-approximant bounds and approximate solutions for Kirkwood–Riseman integral equations. *Journal of the Institute of Mathematics and its Applications*, 14(??):251–265, 1974. CODEN JMTAA8. ISSN 0020-2932.

Barnsley:1977:BBN

[59] M. F. Barnsley and P. D. Robinson. Bivariational bounds for non-linear problems. *Journal of the Institute of Mathematics and its Applications*, 20(4):485–504, 1977. CODEN JMTAA8. ISSN 0020-2932.

Barratt:1968:SPH

[60] P. J. Barratt. Scattering of plane harmonic waves in an infinite elastic solid by an arbitrary configuration of two-dimensional obstacles. *Journal of the Institute of Mathematics and its Applications*, 4(??):233–249, 1968. CODEN JMTAA8. ISSN 0020-2932.

Barrett:1971:CSR

[61] W. Barrett. On the convergence of sequences of rational approximations to analytic functions of a certain class. *Journal of the Institute of Mathematics and its Applications*, 7(??):308–323, 1971. CODEN JMTAA8. ISSN 0020-2932.

Barrett:1974:BRA

[62] W. Barrett. On best rational approximations to certain functions defined as integrals. *Journal of the Institute of Mathematics and its Applications*, 13(??):107–116, 1974. CODEN JMTAA8. ISSN 0020-2932.

Barrodale:1977:NVG

[63] I. Barrodale and G. F. Stuart. A new variant of Gaussian elimination. *Journal of the Institute of Mathematics and its Applications*, 19(1):39–47, 1977. CODEN JMTAA8. ISSN 0020-2932.

Bartholomew-Biggs:1979:MMM

[64] M. C. Bartholomew-Biggs. A matrix modification method for calculating approximate solutions to systems of linear equations. *Journal of the Institute of Mathematics and its Applications*, 23 (2):131–137, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Barton:1974:IPE

[65] N. G. Barton. An inequality for the pointwise estimation of solutions of second order elliptic partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 14 (??):325–333, 1974. CODEN JMTAA8. ISSN 0020-2932.

Baumeister:1980:NSP

[66] J. Baumeister, K.-H. Hoffmann, and P. Jochum. Numerical solution of a parabolic free boundary problem via Newton's method. *Journal of the Institute of Mathematics and its Applications*, 25(2):99–109, 1980. CODEN JMTAA8. ISSN 0020-2932.

Behforooz:1979:ECC

[67] G. H. Behforooz and N. Papamichael. End conditions for cubic spline interpolation. *Journal of the Institute of Mathematics and its Applications*, 23(3):355–366, 1979. CODEN JMTAA8. ISSN 0020-2932.

Behforooz:1980:CPC

[68] G. H. Behforooz, N. Papamichael, and A. J. Worsey. A class of piecewise-cubic interpolatory polynomials. *Journal of the Institute of Mathematics and its Applications*, 25(1):53–65, 1980. CODEN JMTAA8. ISSN 0020-2932.

Bell:1973:MTB

[69] G. E. Bell and J. Crank. A method of treating boundary singularities in time-dependent problems. *Journal of the Institute of Mathematics and its Applications*, 12(??):37–48, 1973. CODEN JMTAA8. ISSN 0020-2932.

Belleni-Morante:1974:DTV

[70] A. Belleni-Morante and C. Vitocolonna. Discretization of the time variable in evolution equations. *Journal of the Institute of Mathematics and its Applications*, 14(??):105–112, 1974. CODEN JMTAA8. ISSN 0020-2932.

BenLashiher:1972:FSS

[71] Ali M. Ben Lashiher and C. Storey. Final-stability with some applications. *Journal of the Institute of Mathematics and its Applications*, 9(??):397–410, 1972. CODEN JMTAA8. ISSN 0020-2932.

Benson:1972:SPB

[72] A. Benson and D. J. Evans. The successive peripheral block over-relaxation method. *Journal of the Institute of Mathematics and its Applications*, 9(??):68–79, 1972. CODEN JMTAA8. ISSN 0020-2932.

Biggs:1971:MAM

[73] M. C. Biggs. Minimization algorithms making use of non-quadratic properties of the objective function. *Journal of the Institute of Mathematics and its Applications*, 8(??):315–327, 1971. CODEN JMTAA8. ISSN 0020-2932.

Biggs:1973:NMA

[74] M. C. Biggs. A note on minimization algorithms which make use of non-quadratic properties of the objective

function. *Journal of the Institute of Mathematics and its Applications*, 12 (??):337–338, 1973. CODEN JMTAA8. ISSN 0020-2932. See note [75].

Biggs:1978:CSC

[75] M. C. Biggs. On the convergence of some constrained minimization algorithms based on recursive quadratic programming. *Journal of the Institute of Mathematics and its Applications*, 21(1): 67–81, 1978. CODEN JMTAA8. ISSN 0020-2932. See [74].

Bignami:1971:NSC

[76] Anna Bignami and A. De Matteis. A note on sampling from combinations of distributions. *Journal of the Institute of Mathematics and its Applications*, 8(??): 80–81, 1971. CODEN JMTAA8. ISSN 0020-2932.

Bland:1965:SSS

[77] D. R. Bland. On shock structure in a solid. *Journal of the Institute of Mathematics and its Applications*, 1(??):56–75, 1965. CODEN JMTAA8. ISSN 0020-2932.

Bland:1966:FE

[78] D. R. Bland. Finite elastodynamics. *Journal of the Institute of Mathematics and its Applications*, 2(??):327–342, 1966. CODEN JMTAA8. ISSN 0020-2932.

Bleistein:1972:GMS

[79] N. Bleistein and R. A. Handelsman. A generalization of the method of steepest descent. *Journal of the Institute of Mathematics and its Applications*, 10 (??):211–230, 1972. CODEN JMTAA8. ISSN 0020-2932.

Blowers:1969:RES

[80] R. M. Blowers. On the response of an elastic solid to droplet impact. *Journal of the Institute of Mathematics and its Applications*, 5(??):167–193, 1969. CODEN JMTAA8. ISSN 0020-2932.

Blum:1978:NMS

[81] E. K. Blum and A. F. Chang. A numerical method for the solution of the double eigenvalue problem. *Journal of the Institute of Mathematics and its Applications*, 22(1):29–42, 1978. CODEN JMTAA8. ISSN 0020-2932. See corrigendum [82].

Blum:1979:CNM

[82] E. K. Blum and A. F. Chang. Corrigendum to: “A numerical method for the solution of the double eigenvalue problem”. *Journal of the Institute of Mathematics and its Applications*, 23(3):??, 1979. CODEN JMTAA8. ISSN 0020-2932. Loose corrigendum. See [81].

Blum:1971:AWPa

[83] Joseph W. Blum and Donald S. Cohen. Acoustic wave propagation in an underwater sound channel. I. Qualitative theory. *Journal of the Institute of Mathematics and its Applications*, 8(??):186–198, 1971. CODEN JMTAA8. ISSN 0020-2932.

Blum:1971:AWPb

[84] Joseph W. Blum and Donald S. Cohen. Acoustic wave propagation in an underwater sound channel. II. Quantitative theory. *Journal of the Institute of Mathematics and its Applications*, 8(??):199–220, 1971. CODEN JMTAA8. ISSN 0020-2932.

Bohte:1975:BRE

[85] Z. Bohte. Bounds for rounding errors in the Gaussian elimination for band systems. *Journal of the Institute of Mathematics and its Applications*, 16(2):133–142, 1975. CODEN JMTAA8. ISSN 0020-2932. Cited in [?].

Bojadziev:1974:ASN

[86] G. N. Bojadžiev and R. W. Lardner. Asymptotic solution of a non-linear second order hyperbolic differential equation with large time delay. *Journal of the Institute of Mathematics and its Applications*, 14(??):203–210, 1974. CODEN JMTAA8. ISSN 0020-2932.

Brindley:1967:TCH

[87] J. Brindley. Thermal convection in horizontal fluid layers. *Journal of the Institute of Mathematics and its Applications*, 3(??):313–343, 1967. CODEN JMTAA8. ISSN 0020-2932.

Broadbent:1977:ART

[88] E. G. Broadbent. Acoustic ray theory applied to vortex refraction. *Journal of the Institute of Mathematics and its Applications*, 19(1):1–27, 1977. CODEN JMTAA8. ISSN 0020-2932.

Brodlie:1974:CME

[89] K. W. Brodlie. Corrections to matrices expressed in non-symmetric product form. *Journal of the Institute of Mathematics and its Applications*, 14(??):141–144, 1974. CODEN JMTAA8. ISSN 0020-2932.

Brodlie:1975:NDS

[90] K. W. Brodlie. A new direction set method for unconstrained minimization without evaluating derivatives. *Journal of the Institute of Mathematics and its Applications*, 15(??):385–396, 1975. CODEN JMTAA8. ISSN 0020-2932.

Brodlie:1973:ROR

[91] K. W. Brodlie, A. R. Gourlay, and J. Greenstadt. Rank-one and rank-two corrections to positive definite matrices expressed in product form. *Journal of the Institute of Mathematics and its Applications*, 11(??):73–82, 1973. CODEN JMTAA8. ISSN 0020-2932.

Brodlie:1975:CCJ

[92] K. W. Brodlie and M. J. D. Powell. On the convergence of cyclic Jacobi methods. *Journal of the Institute of Mathematics and its Applications*, 15(3):279–287, June 1975. CODEN JMTAA8. ISSN 0020-2932. Cited in [?].

Brown:1969:FNA

[93] S. N. Brown and K. Stewartson. Flow near the apex of a plane delta wing. *Journal of the Institute of Mathematics and its Applications*, 5(??):206–216, 1969. CODEN JMTAA8. ISSN 0020-2932.

Brown:1975:SIS

[94] S. N. Brown and P. G. Williams. Self-induced separation. III. *Journal of the Institute of Mathematics and its Applications*, 16(??):175–191, 1975. CODEN JMTAA8. ISSN 0020-2932.

Browne:1976:NSE

[95] B. T. Browne and P. J. Lawrenson. Numerical solution of an elliptic boundary-value problem in the complex variable. *Journal of the Institute of Mathematics and its Applications*, 17(3):311–327, 1976. CODEN JMTAA8. ISSN 0020-2932.

Broyden:1966:ADS

[96] C. G. Broyden. An alternative derivation of simplex method. *Journal of the Institute of Mathematics and its Applications*, 2(??):40–54, 1966. CODEN JMTAA8. ISSN 0020-2932.

Broyden:1970:CCDa

[97] C. G. Broyden. The convergence of a class of double-rank minimization algorithms. I: General considerations. *Journal of the Institute of Mathematics and its Applications*, 6(??):76–90, 1970. CODEN JMTAA8. ISSN 0020-2932.

Broyden:1970:CCDb

[98] C. G. Broyden. The convergence of a class of double-rank minimization algorithms, II: The new algorithm. *Journal of the Institute of Mathematics and its Applications*, 6(??):222–231, 1970. CODEN JMTAA8. ISSN 0020-2932.

Broyden:1973:SCN

[99] C. G. Broyden. Some condition number bounds for the Gaussian elimination process. *Journal of the Institute of Mathematics and its Applications*, 12 (??):273–286, 1973. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Broyden:1974:EPN

[100] C. G. Broyden. Error propagation in numerical processes. *Journal of the Institute of Mathematics and its Applications*, 14(??):131–140, 1974. CODEN JMTAA8. ISSN 0020-2932.

Broyden:1973:LSC

[101] C. G. Broyden, J. E. Dennis, Jr., and Jorge J. More. On the local and superlinear convergence of quasi-Newton methods. *Journal of the Institute of Mathematics and its Applications*, 12(??):223–245, 1973. CODEN JMTAA8. ISSN 0020-2932.

Broyden:1975:NMP

[102] C. G. Broyden and J. A. Ford. A new method of polynomial deflation. *Journal of the Institute of Mathematics and its Applications*, 16(3):271–281, 1975. CODEN JMTAA8. ISSN 0020-2932.

Brunner:1973:SVI

[103] H. Brunner. The solution of Volterra integral equations of the first kind by piecewise polynomials. *Journal of the Institute of Mathematics and its Applications*, 12(??):295–302, 1973. CODEN JMTAA8. ISSN 0020-2932.

Brunner:1977:PPC

[104] H. Brunner and M. D. Evans. Piecewise polynomial collocation for Volterra-type integral equations of the second kind. *Journal of the Institute of Mathematics and its Applications*, 20(4):415–423, 1977. CODEN JMTAA8. ISSN 0020-2932.

Budden:1979:NLE

[105] P. J. Budden and J. Norbury. A nonlinear elliptic eigenvalue problem. *Journal of the Institute of Mathematics and its Applications*, 24(??):9–33, 1979. CODEN JMTAA8. ISSN 0020-2932.

Budden:1979:NEE

[106] P. J. Budden and J. Norbury. A nonlinear elliptic eigenvalue problem. *Journal of the Institute of Mathematics and its Applications*, 24(1):9–33, 1979. CODEN JMTAA8. ISSN 0020-2932.

Bui:1974:SOS

[107] Thuy T. T. Bui and G. Hunter. The significant order of symmetric tridiago-

nal matrices. *Journal of the Institute of Mathematics and its Applications*, 14 (??):293–301, 1974. CODEN JMTAA8. ISSN 0020-2932.

Burnett:1972:ENT

[108] D. S. Burnett and W. W. Soroka. An efficient numerical technique for evaluating large quantities of highly oscillatory integrals. *Journal of the Institute of Mathematics and its Applications*, 10 (??):325–332, 1972. CODEN JMTAA8. ISSN 0020-2932.

Burrows:1980:NAN

[109] B. L. Burrows. A new approach to numerical integration. *Journal of the Institute of Mathematics and its Applications*, 26(2):151–173, 1980. CODEN JMTAA8. ISSN 0020-2932.

Burville:1974:HCO

[110] P. J. Burville. HEAPS: A concept in optimization. *Journal of the Institute of Mathematics and its Applications*, 13 (??):263–278, 1974. CODEN JMTAA8. ISSN 0020-2932.

Butterfield:1976:CAD

[111] K. R. Butterfield. The computation of all the derivatives of a B-spline basis. *Journal of the Institute of Mathematics and its Applications*, 17(1):15–25, 1976. CODEN JMTAA8. ISSN 0020-2932.

Byatt-Smith:1979:EBE

[112] J. G. B. Byatt-Smith. The equivalence of Bernoulli's equation and a set of integral relations for periodic waves. *Journal of the Institute of Mathematics and its Applications*, 23(2):121–130, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Cade:1978:PMS

[113] R. Cade. A perturbation method for solving torus problems in electrostatics. *Journal of the Institute of Mathematics and its Applications*, 21(??):265–284, 1978. CODEN JMTAA8. ISSN 0020-2932.

Cade:1980:IES

[114] R. Cade. The integral equation solution of two-dimensional electrostatic problems involving circular cylinders. *Journal of the Institute of Mathematics and its Applications*, 25(3):211–230, 1980. CODEN JMTAA8. ISSN 0020-2932.

Cahit:1978:TST

[115] I. Cahit and R. Cahit. Transformations on spanning trees. *Journal of the Institute of Mathematics and its Applications*, 21(3):353–358, 1978. CODEN JMTAA8. ISSN 0020-2932.

Cahlon:1978:NSV

[116] B. Cahlon. The numerical solution of a variational problem in automatic control. *Journal of the Institute of Mathematics and its Applications*, 22(4):479–495, 1978. CODEN JMTAA8. ISSN 0020-2932.

Cameron:1968:DIU

[117] I. G. Cameron and G. C. Scorgie. Dynamics of intense underground explosions. *Journal of the Institute of Mathematics and its Applications*, 4(??):194–222, 1968. CODEN JMTAA8. ISSN 0020-2932.

Carre:1971:ANR

[118] B. A. Carré. An algebra for network routing problems. *Journal of the Institute of Mathematics and its Applica-*

tions, 7(??):273–294, 1971. CODEN JMTAA8. ISSN 0020-2932.

Cash:1977:CIA

[119] J. R. Cash. A class of iterative algorithms for the integration of stiff systems of ordinary differential equations. *Journal of the Institute of Mathematics and its Applications*, 19(3):325–335, 1977. CODEN JMTAA8. ISSN 0020-2932.

Cash:1977:NCA

[120] J. R. Cash. A note on the computational aspects of a class of implicit Runge–Kutta procedures. *Journal of the Institute of Mathematics and its Applications*, 20(4):425–441, 1977. CODEN JMTAA8. ISSN 0020-2932.

Cash:1977:CIR

[121] J. R. Cash. On a class of implicit Runge–Kutta procedures. *Journal of the Institute of Mathematics and its Applications*, 19(4):455–470, 1977. CODEN JMTAA8. ISSN 0020-2932.

Cash:1978:NCM

[122] J. R. Cash. A note on a class of modified backward differentiation schemes. *Journal of the Institute of Mathematics and its Applications*, 21(3):301–313, 1978. CODEN JMTAA8. ISSN 0020-2932.

Cash:1979:DIR

[123] J. R. Cash. Diagonally implicit Runge–Kutta formulae with error estimates. *Journal of the Institute of Mathematics and its Applications*, 24(??):293–301, 1979. CODEN JMTAA8. ISSN 0020-2932.

Cash:1980:DVO

[124] J. R. Cash and C. B. Liem. On the design of a variable order, variable step diagonally implicit Runge–Kutta algorithm. *Journal of the Institute of Mathematics and its Applications*, 26(1):87–91, 1980. CODEN JMTAA8. ISSN 0020-2932.

Caudrey:1974:EMS

[125] P. J. Caudrey, J. C. Eilbeck, and J. D. Gibbon. Exact multisoliton solution of the reduced Maxwell–Bloch equations of non-linear optics. *Journal of the Institute of Mathematics and its Applications*, 14(??):375–386, 1974. CODEN JMTAA8. ISSN 0020-2932.

Cavers:1978:FFT

[126] J. K. Cavers. On the fast Fourier transform inversion of probability generating functions. *Journal of the Institute of Mathematics and its Applications*, 22(3): 275–282, 1978. CODEN JMTAA8. ISSN 0020-2932.

Cecchi:1977:BSF

[127] M. M. Cecchi and A. Pica. A basis set of functions for curved elements in the finite element methods. *Journal of the Institute of Mathematics and its Applications*, 20(2):151–162, 1977. CODEN JMTAA8. ISSN 0020-2932.

Chadwick:1966:ISC

[128] P. Chadwick. The initial stages of cooling of a non-homogeneous sphere. *Journal of the Institute of Mathematics and its Applications*, 2(??):29–39, 1966. CODEN JMTAA8. ISSN 0020-2932.

Chadwick:1972:IEE

[129] P. Chadwick and E. W. Haddon. Inflation-extension and eversion of a

tube of incompressible isotropic elastic material. *Journal of the Institute of Mathematics and its Applications*, 10 (??):258–278, 1972. CODEN JMTAA8. ISSN 0020-2932.

Chadwick:1969:TOR

[130] P. Chadwick and A. F. Johnson. Torsional oscillations of a rigid convex inclusion embedded in an elastic solid. *Journal of the Institute of Mathematics and its Applications*, 5(??):283–307, 1969. CODEN JMTAA8. ISSN 0020-2932.

Chako:1965:AED

[131] Nicholas Chako. Asymptotic expansions of double and multiple integrals occurring in diffraction theory. *Journal of the Institute of Mathematics and its Applications*, 1(??):372–422, 1965. CODEN JMTAA8. ISSN 0020-2932.

Chakrabarti:1980:NSI

[132] A. Chakrabarti and W. E. Williams. A note on a singular integral equation. *Journal of the Institute of Mathematics and its Applications*, 26(3):321–323, 1980. CODEN JMTAA8. ISSN 0020-2932.

Chambers:1967:CTV

[133] L. G. Chambers. A comparison of two variational methods. *Journal of the Institute of Mathematics and its Applications*, 3(??):166–168, 1967. CODEN JMTAA8. ISSN 0020-2932.

Chan:1976:VDL

[134] W. L. Chan. Variational dualities in the linear regulator and estimation problems with and without time delay. *Journal of the Institute of Mathematics and its Applications*, 18(2):237–247, 1976. CODEN JMTAA8. ISSN 0020-2932.

Chandra:1980:RBM

[135] J. Chandra and P. W. Davis. On the relation between monotone methods and temporal evolution in fully nonlinear boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 25(3):231–240, 1980. CODEN JMTAA8. ISSN 0020-2932.

Chang:1980:RLR

[136] Y. F. Chang and G. Corliss. Ratio-like and recurrence relation tests for convergence of series. *Journal of the Institute of Mathematics and its Applications*, 25 (4):349–359, 1980. CODEN JMTAA8. ISSN 0020-2932.

Chapman:1965:WCI

[137] P. B. Chapman. Weak cylindrical implosions. *Journal of the Institute of Mathematics and its Applications*, 1(??):184–197, 1965. CODEN JMTAA8. ISSN 0020-2932.

Chawla:1978:FOTa

[138] M. M. Chawla. A fourth-order tridiagonal finite difference method for general non- linear two-point boundary value problems with mixed boundary conditions. *Journal of the Institute of Mathematics and its Applications*, 21(??):83–93, 1978. CODEN JMTAA8. ISSN 0020-2932.

Chawla:1978:FOTb

[139] M. M. Chawla. A fourth-order tridiagonal finite difference method for general two-point boundary value problems with non-linear boundary conditions. *Journal of the Institute of Mathematics and its Applications*, 22(??):89–97, 1978. CODEN JMTAA8. ISSN 0020-2932.

Chawla:1978:HAT

[140] M. M. Chawla. High-accuracy tridiagonal finite difference approximations for nonlinear two-point boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 22(2): 203–209, 1978. CODEN JMTAA8. ISSN 0020-2932.

Chawla:1979:SOT

[141] M. M. Chawla. A sixth-order tridiagonal finite difference method for general nonlinear two-point boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 24(1):35–42, 1979. CODEN JMTAA8. ISSN 0020-2932.

Chen:1972:PIS

[142] Y. T. Chen. Permutation of irreducible sparse matrices to upper triangular forms. *Journal of the Institute of Mathematics and its Applications*, 10 (??):15–18, 1972. CODEN JMTAA8. ISSN 0020-2932.

Chester:1975:FOS

[143] W. Chester. The forced oscillations of a simple pendulum. *Journal of the Institute of Mathematics and its Applications*, 15(??):289–306, 1975. CODEN JMTAA8. ISSN 0020-2932.

Chester:1977:CTD

[144] W. Chester. Continuous transformations and differential equations. *Journal of the Institute of Mathematics and its Applications*, 19(3):343–376, 1977. CODEN JMTAA8. ISSN 0020-2932.

Chester:1978:GTR

[145] W. Chester. A general theory of resonance between weakly coupled oscillatory systems. *Journal of the Institute of Mathematics and its Applications*, 22 (4):383–399, 1978. CODEN JMTAA8. ISSN 0020-2932.

Chester:1980:GTR

[146] W. Chester. A general theory of resonance between weakly coupled oscillatory systems. II. Nonconservative systems. *Journal of the Institute of Mathematics and its Applications*, 26(2):199–207, 1980. CODEN JMTAA8. ISSN 0020-2932.

Chew:1980:EBT

[147] K. H. Chew, P. N. Shivakumar, and J. J. Williams. Error bounds for the truncation of infinite linear differential systems. *Journal of the Institute of Mathematics and its Applications*, 25(1):37–51, 1980. CODEN JMTAA8. ISSN 0020-2932.

Chien:1972:MAS

[148] Henry H. Y. Chien. A multiphase algorithm for single variable equation solving. *Journal of the Institute of Mathematics and its Applications*, 9(??):290–298, 1972. CODEN JMTAA8. ISSN 0020-2932.

Christiansen:1978:IPI

[149] S. Christiansen and P. Hougaard. An investigation of a pair of integral equations for the biharmonic problem. *Journal of the Institute of Mathematics and its Applications*, 22(1):15–27, 1978. CODEN JMTAA8. ISSN 0020-2932.

Christiansen:1975:IEU

[150] Søren Christiansen. Integral equations without a unique solution can be made useful for solving some plane harmonic problems. *Journal of the Institute of Mathematics and its Applications*, 16(2):

143–159, 1975. CODEN JMTAA8. ISSN 0020-2932.

Churchhouse:1969:CFA

[151] R. F. Churchhouse and S. T. E. Muir. Continued fractions, algebraic numbers and modular invariants. *Journal of the Institute of Mathematics and its Applications*, 5(??):318–328, 1969. CODEN JMTAA8. ISSN 0020-2932.

Cicenia:1976:NIF

[152] R. A. Cicenia. Numerical integration formulae involving derivatives. *Journal of the Institute of Mathematics and its Applications*, 18(1):79–85, 1976. CODEN JMTAA8. ISSN 0020-2932.

Cicenia:1979:RNI

[153] R. A. Cicenia. Remainders in numerical integration formulae involving derivatives. *Journal of the Institute of Mathematics and its Applications*, 24(3):347–352, 1979. CODEN JMTAA8. ISSN 0020-2932.

Cioranescu:1979:EPT

[154] Doina Cioranescu, Jeannine Saint Jean Paulin, and Hélène Lanchon. Elastic-plastic torsion of heterogeneous cylindrical bars. *Journal of the Institute of Mathematics and its Applications*, 24(4):353–378, 1979. CODEN JMTAA8. ISSN 0020-2932.

Clarke:1977:BCL

[155] B. M. N. Clarke. Boundary controllability of linear symmetric hyperbolic systems. *Journal of the Institute of Mathematics and its Applications*, 20(3):283–298, 1977. CODEN JMTAA8. ISSN 0020-2932.

Clements:1971:MHC

[156] D. L. Clements. The motion of a heavy cylinder over the surface of anisotropic elastic solid. *Journal of the Institute of Mathematics and its Applications*, 7(??):198–206, 1971. CODEN JMTAA8. ISSN 0020-2932.

Clements:1979:MNS

[157] D. L. Clements and G. W. King. A method for the numerical solution of problems governed by elliptic systems in the cut plane. *Journal of the Institute of Mathematics and its Applications*, 24(1):81–93, 1979. CODEN JMTAA8. ISSN 0020-2932.

Clements:1978:MNS

[158] D. L. Clements and F. J. Rizzo. A method for the numerical solution of boundary value problems governed by second-order elliptic systems. *Journal of the Institute of Mathematics and its Applications*, 22(2):197–202, 1978. CODEN JMTAA8. ISSN 0020-2932.

Clements:1974:ABT

[159] D. L. Clements and C. Rogers. On the application of a Bäcklund transformation to linear isotropic elasticity. *Journal of the Institute of Mathematics and its Applications*, 14(??):23–30, 1974. CODEN JMTAA8. ISSN 0020-2932.

Clenshaw:1965:CSF

[160] C. W. Clenshaw and J. G. Hayes. Curve and surface fitting. *Journal of the Institute of Mathematics and its Applications*, 1(??):164–183, 1965. CODEN JMTAA8. ISSN 0020-2932.

Clenshaw:1978:CSA

[161] C. W. Clenshaw and B. Negus. The cubic X-spline and its application to in-

terpolation. *Journal of the Institute of Mathematics and its Applications*, 22(1): 109–119, August 1978. CODEN JMTAA8. ISSN 0020-2932.

Clint:1971:SIM

[162] Maurice Clint and Alan Jennings. A simultaneous iteration method for the unsymmetric eigenvalue problem. *Journal of the Institute of Mathematics and its Applications*, 8(??):111–121, 1971. CODEN JMTAA8. ISSN 0020-2932.

Cohen:1977:DTA

[163] A. M. Cohen. A divergent technique for the approximate solution of some simultaneous linear equations by iterative methods. *Journal of the Institute of Mathematics and its Applications*, 19(2): 187–193, 1977. CODEN JMTAA8. ISSN 0020-2932.

Cohen:1974:NNS

[164] A. M. Cohen and D. E. Jones. A note on the numerical solution of some singular second order differential equations. *Journal of the Institute of Mathematics and its Applications*, 13(??):379–384, 1974. CODEN JMTAA8. ISSN 0020-2932.

Cohen:1977:TSE

[165] A. M. Cohen and D. E. Jones. A technique for the solution of eigenvalue problems. *Journal of the Institute of Mathematics and its Applications*, 20(1):1–7, 1977. CODEN JMTAA8. ISSN 0020-2932.

Cohen:1979:GCO

[166] E. Cohen. A general class of optimal polynomials related to electric filters. *Journal of the Institute of Mathematics and its Applications*, 24(2):197–208, 1979. CODEN JMTAA8. ISSN 0020-2932.

Cohen:1969:EDD

[167] J. K. Cohen and D. L. Hector. Edge 'diffraction' for the diffusion equation. *Journal of the Institute of Mathematics and its Applications*, 5(??):1–18, 1969. CODEN JMTAA8. ISSN 0020-2932.

Cohen:1967:RMA

[168] Jack K. Cohen and Robert M. Lewis. A ray method for the asymptotic solution of the diffusion equation. *Journal of the Institute of Mathematics and its Applications*, 3(??):266–290, 1967. CODEN JMTAA8. ISSN 0020-2932.

Cole:1977:CVP

[169] R. J. Cole. Complementary variational principles for Knudsen flow rates. *Journal of the Institute of Mathematics and its Applications*, 20(??):107–115, 1977. CODEN JMTAA8. ISSN 0020-2932.

Coleman:1976:LTM

[170] J. P. Coleman. The Lanczos tau-method. *Journal of the Institute of Mathematics and its Applications*, 17(1): 85–97, 1976. CODEN JMTAA8. ISSN 0020-2932.

Collins:1969:SSD

[171] R. Collins and A. Wragg. The solution of a statistical decision problem with moving boundaries by the image method. *Journal of the Institute of Mathematics and its Applications*, 5(??):308–317, 1969. CODEN JMTAA8. ISSN 0020-2932.

Common:1974:SPC

[172] A. K. Common and P. R. Graves-Morris. Some properties of Chisholm approxi-

mants. *Journal of the Institute of Mathematics and its Applications*, 13(??): 229–232, 1974. CODEN JMTAA8. ISSN 0020-2932.

Constantine:1978:SPA

[173] A. G. Constantine and J. C. Gower. Some properties and applications of simple orthogonal matrices. *Journal of the Institute of Mathematics and its Applications*, 21(4):445–454, 1978. CODEN JMTAA8. ISSN 0020-2932.

Cooke:1978:NPS

[174] J. C. Cooke. Note on the principle of stationary phase. *Journal of the Institute of Mathematics and its Applications*, 22(3): 297–303, 1978. CODEN JMTAA8. ISSN 0020-2932.

Cooley:1968:SRS

[175] M. D. A. Cooley and M. E. O'Neil. On the slow rotation of a sphere about a diameter parallel to a nearby plane wall. *Journal of the Institute of Mathematics and its Applications*, 4(??):163–173, 1968. CODEN JMTAA8. ISSN 0020-2932.

Copson:1966:BVP

[176] E. T. Copson and P. Keast. On a boundary-value problem for the equation of heat. *Journal of the Institute of Mathematics and its Applications*, 2(??): 358–363, 1966. CODEN JMTAA8. ISSN 0020-2932.

Cotsaftis:1969:SM

[177] M. Cotsaftis. On stability of motion. *Journal of the Institute of Mathematics and its Applications*, 5(??):19–54, 1969. CODEN JMTAA8. ISSN 0020-2932.

Cox:1971:CFP

[178] M. G. Cox. Curve fitting with piecewise polynomials. *Journal of the Institute of Mathematics and its Applications*, 8(??): 36–52, 1971. CODEN JMTAA8. ISSN 0020-2932.

Cox:1972:NEB

[179] M. G. Cox. The numerical evaluation of B-splines. *Journal of the Institute of Mathematics and its Applications*, 10 (??):134–149, 1972. CODEN JMTAA8. ISSN 0020-2932.

Cox:1975:ASI

[180] M. G. Cox. An algorithm for spline interpolation. *Journal of the Institute of Mathematics and its Applications*, 15 (??):95–108, 1975. CODEN JMTAA8. ISSN 0020-2932.

Cox:1978:NES

[181] M. G. Cox. The numerical evaluation of a spline from its B-spline representation. *Journal of the Institute of Mathematics and its Applications*, 21(??):135–143, 1978. CODEN JMTAA8. ISSN 0020-2932.

Craggs:1978:PSM

[182] J. W. Craggs and P. W. Duck. A power series method for treating mixed boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 21(??):1–12, 1978. CODEN JMTAA8. ISSN 0020-2932.

Crank:1977:TBS

[183] J. Crank and R. M. Furzeland. The treatment of boundary singularities in axially symmetric problems containing discs. *Journal of the Institute of Mathematics and its Applications*, 20(3):355–

370, 1977. CODEN JMTAA8. ISSN 0020-2932.

Crank:1980:NSF

[184] J. Crank and T. Ozis. Numerical solution of a free boundary problem by interchanging dependent and independent variables. *Journal of the Institute of Mathematics and its Applications*, 26(1): 77–85, 1980. CODEN JMTAA8. ISSN 0020-2932.

Crank:1972:MSM

[185] John Crank and R. S. Gupta. A method for solving moving boundary problems in heat flow using cubic splines or polynomials. *Journal of the Institute of Mathematics and its Applications*, 10 (??):296–304, 1972. CODEN JMTAA8. ISSN 0020-2932.

Crank:1972:MBP

[186] John Crank and Radhey S. Gupta. A moving boundary problem arising from the diffusion of oxygen in absorbing tissue. *Journal of the Institute of Mathematics and its Applications*, 10(??):19–33, 1972. CODEN JMTAA8. ISSN 0020-2932.

Crapper:1965:SMF

[187] G. D. Crapper. Steady magnetogasdynamic flow past a source. *Journal of the Institute of Mathematics and its Applications*, 1(??):241–257, 1965. CODEN JMTAA8. ISSN 0020-2932.

Crowley:1979:WSM

[188] A. B. Crowley. On the weak solution of moving boundary problems. *Journal of the Institute of Mathematics and its Applications*, 24(1):43–57, 1979. CODEN JMTAA8. ISSN 0020-2932.

Crowley:1977:SPN

[189] A. B. Crowley and J. R. Ockendon. A Stefan problem with a non-monotone boundary. *Journal of the Institute of Mathematics and its Applications*, 20(3): 269–281, 1977. CODEN JMTAA8. ISSN 0020-2932.

Cryer:1980:PCF

[190] C. W. Cryer. A proof of the convexity of the free boundary for porous flow through a rectangular dam using the maximum principle. *Journal of the Institute of Mathematics and its Applications*, 25(2):111–120, 1980. CODEN JMTAA8. ISSN 0020-2932.

Cullen:1973:SFE

[191] M. J. P. Cullen. A simple finite element method for meteorological problems. *Journal of the Institute of Mathematics and its Applications*, 11(??):15–31, 1973. CODEN JMTAA8. ISSN 0020-2932.

Cullen:1974:FEM

[192] M. J. P. Cullen. A finite element method for a non-linear initial value problem. *Journal of the Institute of Mathematics and its Applications*, 13(??):233–247, 1974. CODEN JMTAA8. ISSN 0020-2932.

Cumberbatch:1966:GSS

[193] E. Cumberbatch and E. Varley. Generalized self-similar flows. *Journal of the Institute of Mathematics and its Applications*, 2(??):1–11, 1966. CODEN JMTAA8. ISSN 0020-2932.

Cupini:1977:MSD

[194] E. Cupini. A mixed stochastic-deterministic method for systems of linear equations. *Journal of the Institute*

of Mathematics and its Applications, 19 (4):447–454, 1977. CODEN JMTAA8. ISSN 0020-2932.

Curle:1979:ACS

[195] N. Curle. Analysis of certain slowly converging series. *Journal of the Institute of Mathematics and its Applications*, 23 (3):265–275, 1979. CODEN JMTAA8. ISSN 0020-2932.

Curle:1980:UBL

[196] S. N. Curle. An unsteady boundary layer problem—a critical test of extended series expansions. *Journal of the Institute of Mathematics and its Applications*, 25 (3):199–209, 1980. CODEN JMTAA8. ISSN 0020-2932.

Currie:1969:LTW

[197] P. Currie and M. Hayes. Longitudinal and transverse waves in finite elastic strain. Hadamard and Green materials. *Journal of the Institute of Mathematics and its Applications*, 5(??):140–161, 1969. CODEN JMTAA8. ISSN 0020-2932.

Curtis:1975:HOE

[198] A. R. Curtis. High-order explicit Runge–Kutta formulae, their uses, and limitations. *Journal of the Institute of Mathematics and its Applications*, 16(1):35–55, 1975. CODEN JMTAA8. ISSN 0020-2932.

Curtis:1979:IIR

[199] A. R. Curtis. The implementation of implicit Runge–Kutta formulae for the solution of initial-value problems. *Journal of the Institute of Mathematics and its Applications*, 23(3):339–353, 1979. CODEN JMTAA8. ISSN 0020-2932.

Curtis:1974:ESJ

[200] A. R. Curtis, M. J. D. Powel, and J. K. Reid. On the estimation of sparse Jacobian matrices. *Journal of the Institute of Mathematics and its Applications*, 13 (??):117–119, 1974. CODEN JMTAA8. ISSN 0020-2932.

Curtis:1971:SLS

[201] A. R. Curtis and J. K. Reid. The solution of large sparse unsymmetric systems of linear equations. *Journal of the Institute of Mathematics and its Applications*, 8(??):344–353, 1971. CODEN JMTAA8. ISSN 0020-2932.

Curtis:1972:ASM

[202] A. R. Curtis and J. K. Reid. On the automatic scaling of matrices for Gaussian elimination. *Journal of the Institute of Mathematics and its Applications*, 10 (??):118–124, 1972. CODEN JMTAA8. ISSN 0020-2932.

Curtis:1974:CSL

[203] A. R. Curtis and J. K. Reid. The choice of step lengths when using differences to approximate Jacobian matrices. *Journal of the Institute of Mathematics and its Applications*, 13(??):121–126, 1974. CODEN JMTAA8. ISSN 0020-2932.

Daley:1965:SR

[204] D. J. Daley and D. G. Kendall. Stochastic rumours. *Journal of the Institute of Mathematics and its Applications*, 1(??):42–55, 1965. CODEN JMTAA8. ISSN 0020-2932.

Daniel:1975:ECT

[205] J. W. Daniel and B. K. Swartz. Extrapolated collocation for two-point boundary-value problems using cubic

splines. *Journal of the Institute of Mathematics and its Applications*, 16(2):161–174, 1975. CODEN JMTAA8. ISSN 0020-2932.

Daniels:1976:NAI

[206] P. G. Daniels. A numerical and asymptotic investigation of boundary-layer wake evolution. *Journal of the Institute of Mathematics and its Applications*, 17 (3):367–386, 1976. CODEN JMTAA8. ISSN 0020-2932.

Daniels:1980:ESO

[207] P. G. Daniels. The effect of sidewalls on overstable convection in a rotating fluid. *Journal of the Institute of Mathematics and its Applications*, 26(2):103–118, 1980. CODEN JMTAA8. ISSN 0020-2932.

Datko:1968:ASC

[208] R. Datko. The asymptotic stability of a class of second order differential equations. *Journal of the Institute of Mathematics and its Applications*, 4(??):276–281, 1968. CODEN JMTAA8. ISSN 0020-2932.

Datta:1977:HEH

[209] N. Datta and R. N. Jana. Hall effects on hydromagnetic flow and heat transfer in a rotating channel. *Journal of the Institute of Mathematics and its Applications*, 19(??):217–229, 1977. CODEN JMTAA8. ISSN 0020-2932.

Davies:1976:IPS

[210] M. Davies and B. Dawson. The incrementation parameter in square root iteration. *Journal of the Institute of Mathematics and its Applications*, 17(2):219–223, 1976. CODEN JMTAA8. ISSN 0020-2932.

Davies:1972:TOC

[211] M. J. Davies. Time optimal control and the Duffing oscillator. *Journal of the Institute of Mathematics and its Applications*, 9(??):357–369, 1972. CODEN JMTAA8. ISSN 0020-2932.

Davis:1970:WPI

[212] A. M. J. Davis. Waves in the presence of an infinite dock with gap. *Journal of the Institute of Mathematics and its Applications*, 6(??):141–156, 1970. CODEN JMTAA8. ISSN 0020-2932.

Davis:1975:SSW

[213] A. M. J. Davis. Short surface waves due to a heaving sphere in a hemispherical lake. *Journal of the Institute of Mathematics and its Applications*, 16(2):221–237, 1975. CODEN JMTAA8. ISSN 0020-2932.

Day:1973:GQM

[214] J. T. Day. A Gaussian quadrature method for the numerical solution of the Goursat problem. *Journal of the Institute of Mathematics and its Applications*, 12(??):155–158, 1973. CODEN JMTAA8. ISSN 0020-2932.

DellaTorre:1973:CPS

[215] E. Della Torre and W. Kinsner. Convergence properties of the successive extrapolated relaxation (S.E.R.) method. *Journal of the Institute of Mathematics and its Applications*, 12(??):175–185, 1973. CODEN JMTAA8. ISSN 0020-2932.

Delves:1977:FMS

[216] L. M. Delves. A fast method for the solution of Fredholm integral equations. *Journal of the Institute of Mathematics and its Applications*, 20(2):173–182,

1977. CODEN JMTAA8. ISSN 0020-2932.

Delves:1977:NSS

[217] L. M. Delves. The numerical solution of sets of linear equations arising from Ritz–Galerkin methods. *Journal of the Institute of Mathematics and its Applications*, 20(2):163–171, 1977. CODEN JMTAA8. ISSN 0020-2932.

Delves:1979:FGA

[218] L. M. Delves, L. F. Abd-Elal, and J. A. Hendry. A fast Galerkin algorithm for singular integral equations. *Journal of the Institute of Mathematics and its Applications*, 23(2):139–166, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Delves:1979:FDM

[219] L. M. Delves and I. Barrodale. A fast direct method for the least squares solution of slightly overdetermined sets of linear equations. *Journal of the Institute of Mathematics and its Applications*, 24 (2):149–156, 1979. CODEN JMTAA8. ISSN 0020-2932.

Delves:1979:IMP

[220] L. M. Delves and C. A. Hall. An implicit matching principle for global element calculations. *Journal of the Institute of Mathematics and its Applications*, 23(2):223–234, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Delves:1980:FIG

[221] L. M. Delves and C. Phillips. A fast implementation of the global element method. *Journal of the Institute of Mathematics and its Applications*, 25(2): 177–197, 1980. CODEN JMTAA8. ISSN 0020-2932.

Dennis:1972:MVF

[222] S. C. R. Dennis. The motion of a viscous fluid past an impulsively started semi-infinite flat plate. *Journal of the Institute of Mathematics and its Applications*, 10(??):105–117, 1972. CODEN JMTAA8. ISSN 0020-2932.

Dennis:1979:ARP

[223] S. C. R. Dennis and J. D. Hudson. Accurate representations of partial differential equations by finite-difference schemes. *Journal of the Institute of Mathematics and its Applications*, 23(1): 43–51, 1979. CODEN JMTAA8. ISSN 0020-2932.

Dennis:1980:FAR

[224] S. C. R. Dennis and J. D. Hudson. Further accurate representations of partial differential equations by finite-difference methods. *Journal of the Institute of Mathematics and its Applications*, 26(4): 369–379, 1980. CODEN JMTAA8. ISSN 0020-2932.

Dew:1978:NNS

[225] P. M. Dew. A note on the numerical solution of quasi-linear parabolic partial differential equations with error estimates. *Journal of the Institute of Mathematics and its Applications*, 21(??):401–417, 1978. CODEN JMTAA8. ISSN 0020-2932.

Dew:1972:IMS

[226] P. M. Dew and R. E. Scraton. An improved method for the solution of the heat equation in Chebyshev series. *Journal of the Institute of Mathematics and its Applications*, 9(3):299–309, 1972. CODEN JMTAA8. ISSN 0020-2932.

Dew:1973:SHE

[227] P. M. Dew and R. E. Scraton. The solution of the heat equation in two space variables using Chebyshev series. *Journal of the Institute of Mathematics and its Applications*, 11(2):231–240, 1973. CODEN JMTAA8. ISSN 0020-2932.

Dew:1975:CMN

[228] P. M. Dew and R. E. Scraton. Chebyshev methods for the numerical solution of parabolic partial differential equations in two and three space variables. *Journal of the Institute of Mathematics and its Applications*, 16(1):121–131, 1975. CODEN JMTAA8. ISSN 0020-2932.

Dhaliwal:1971:SST

[229] Ranjit S. Dhaliwal. The steady-state thermoelastic mixed boundary-value problem for the elastic layer. *Journal of the Institute of Mathematics and its Applications*, 7(??):295–302, 1971. CODEN JMTAA8. ISSN 0020-2932.

Dixon:1973:CDL

[230] L. C. W. Dixon. Conjugate directions without linear searches. *Journal of the Institute of Mathematics and its Applications*, 11(??):317–328, 1973. CODEN JMTAA8. ISSN 0020-2932.

Dixon:1975:CGA

[231] L. C. W. Dixon. Conjugate gradient algorithms: quadratic termination without linear searches. *Journal of the Institute of Mathematics and its Applications*, 15(??):9–18, 1975. CODEN JMTAA8. ISSN 0020-2932.

Djukic:1978:MDS

[232] Dj.S. Djukic. On the motion of a dynamic system with minimal dissipation. *Journal of the Institute of Mathematics and its Applications*, 21(??):41–46, 1978. CODEN JMTAA8. ISSN 0020-2932.

Dollimore:1973:SAU

[233] Jean Dollimore. Some algorithms for use with the fast Fourier transform. *Journal of the Institute of Mathematics and its Applications*, 12(??):115–117, 1973. CODEN JMTAA8. ISSN 0020-2932.

Dolph:1965:NVP

[234] Charles L. Dolph and John M. Richardson. A note on variational principles for unsteady compressible flows in one dimension. *Journal of the Institute of Mathematics and its Applications*, 1(??): 113–117, 1965. CODEN JMTAA8. ISSN 0020-2932.

Donnelly:1974:BEN

[235] J. D. P. Donnelly. Bounds for the eigenvalues of non-selfadjoint differential operators. *Journal of the Institute of Mathematics and its Applications*, 13 (??):249–261, 1974. CODEN JMTAA8. ISSN 0020-2932.

Donnelly:1979:MNT

[236] J. D. P. Donnelly. A model for nonequilibrium thermodynamic processes involving phase changes. *Journal of the Institute of Mathematics and its Applications*, 24(4):425–438, 1979. CODEN JMTAA8. ISSN 0020-2932.

Doran:1969:WSC

[237] H. E. Doran. The wedge with a symmetric crack at the vertex in plane elastostatics. *Journal of the Institute of Mathematics and its Applications*, 5(4):363–372, 1969. CODEN JMTAA8. ISSN 0020-2932.

Doran:1969:HPE

[238] H. E. Doran and V. T. Buchwald. The half-plane with an edge crack in plane elastostatics. *Journal of the Institute of Mathematics and its Applications*, 5(??): 91–112, 1969. CODEN JMTAA8. ISSN 0020-2932.

Dore:1974:EES

[239] B. D. Dore and D. Porter. The edge effect of a surface film on gravity waves. *Journal of the Institute of Mathematics and its Applications*, 14(??):119–129, 1974. CODEN JMTAA8. ISSN 0020-2932.

Downs:1972:IRM

[240] T. Downs. Inversion of rational matrices by the reinforcement method. *Journal of the Institute of Mathematics and its Applications*, 10(??):34–41, 1972. CODEN JMTAA8. ISSN 0020-2932.

Drew:1977:BPF

[241] D. M. Drew and J. A. Murphy. Branch points, M fractions and rational approximants generated by linear equations. *Journal of the Institute of Mathematics and its Applications*, 19(2):169–185, 1977. CODEN JMTAA8. ISSN 0020-2932.

Duff:1977:PBT

[242] Iain S. Duff. On permutations to block triangular form. *Journal of the Institute of Mathematics and its Applications*, 19 (3):339–342, 1977. CODEN JMTAA8. ISSN 0020-2932.

Duff:1974:CSO

[243] Iain S. Duff and John K. Reid. A comparison of sparsity orderings for obtaining a pivotal sequence in Gaussian elimination. *Journal of the Institute of Mathematics and its Applications*, 14 (??):281–291, 1974. CODEN JMTAA8. ISSN 0020-2932.

Duff:1975:RSM

[244] Iain S. Duff and John K. Reid. On the reduction of sparse matrices to condensed forms by similarity transformations. *Journal of the Institute of Mathematics and its Applications*, 15(??):217–224, 1975. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Duff:1976:CSM

[245] Iain S. Duff and John K. Reid. A comparison of some methods for the solution of sparse overdetermined systems of linear equations. *Journal of the Institute of Mathematics and its Applications*, 17 (3):267–280, 1976. CODEN JMTAA8. ISSN 0020-2932.

Duff:1979:DSS

[246] Iain S. Duff, John K. Reid, Neils Munskgaard, and Hans B. Nielsen. Direct solution of sets of linear equations whose matrix is sparse, symmetric and indefinite. *Journal of the Institute of Mathematics and its Applications*, 23(2):235–250, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Duggan:1980:DEP

[247] R. C. Duggan. On dual extremum principles and the hypercircle for a class of partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 26(3):259–267, 1980. CODEN JMTAA8. ISSN 0020-2932.

Dunaway:1972:MGJ

[248] Donna K. Dunaway and B. L. Turlington. Modifications to the Garside, Jar-

ratt P. Mack method for solving ill-conditioned polynomial equations. *Journal of the Institute of Mathematics and its Applications*, 10(??):358–368, 1972. CODEN JMTAA8. ISSN 0020-2932.

Dunham:1971:CA

[249] Charles B. Dunham. Chebyshev approximation by $A + B \log(1 + CX)$. *Journal of the Institute of Mathematics and its Applications*, 8(??):371–373, 1971. CODEN JMTAA8. ISSN 0020-2932.

Dunham:1972:AEP

[250] Charles B. Dunham. Approximation by exponential-polynomial products on finite point sets. *Journal of the Institute of Mathematics and its Applications*, 10 (??):125–127, 1972. CODEN JMTAA8. ISSN 0020-2932.

Dunham:1972:CAI

[251] Charles B. Dunham. Chebyshev approximation by $A+B^* \log(1+CX)$. II. *Journal of the Institute of Mathematics and its Applications*, 10(??):369–372, 1972. CODEN JMTAA8. ISSN 0020-2932.

Dunham:1973:CAE

[252] Charles B. Dunham. Chebyshev approximation by exponential ratios. *Journal of the Institute of Mathematics and its Applications*, 11(??):247–249, 1973. CODEN JMTAA8. ISSN 0020-2932.

Durbin:1979:AEL

[253] P. Durbin. Asymptotic expansion of Laplace transforms about the origin using generalized functions. *Journal of the Institute of Mathematics and its Applications*, 23(2):181–192, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Dyakonov:1971:SSE

[254] E. G. D'yakonov. On the solution of some elliptic difference equations. *Journal of the Institute of Mathematics and its Applications*, 7(??):1–20, 1971. CODEN JMTAA8. ISSN 0020-2932.

Eason:1966:DPE

[255] G. Eason. The displacement produced in an elastic half-space by a suddenly applied surface force. *Journal of the Institute of Mathematics and its Applications*, 2(??):299–326, 1966. CODEN JMTAA8. ISSN 0020-2932.

Easton:1973:FPM

[256] M. C. Easton. A fixed point method for Tchebycheff solution of inconsistent linear equations. *Journal of the Institute of Mathematics and its Applications*, 12 (??):137–154, 1973. CODEN JMTAA8. ISSN 0020-2932.

Eberlein:1971:DCS

[257] P. J. Eberlein. On the diagonalization of complex symmetric matrices. *Journal of the Institute of Mathematics and its Applications*, 7(??):377–383, 1971. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Edwards:1979:ULM

[258] J. T. Edwards, D. C. Licciardello, and D. J. Thouless. Use of the Lanczos method for finding complete sets of eigenvalues of large sparse symmetric matrices. *Journal of the Institute of Mathematics and its Applications*, 23(3): 277–283, 1979. CODEN JMTAA8. ISSN 0020-2932.

Ehle:1975:GRK

[259] B. L. Ehle and J. D. Lawson. Generalized Runge–Kutta processes for stiff

initial-value problems. *Journal of the Institute of Mathematics and its Applications*, 16(1):11–21, 1975. CODEN JMTAA8. ISSN 0020-2932.

Eilon:1976:COS

[260] S. Eilon and I. G. Chowdhury. Conditions for optimal scheduling for the three-machine problem. *Journal of the Institute of Mathematics and its Applications*, 17(??):1–4, 1976. CODEN JMTAA8. ISSN 0020-2932.

El-Gendi:1975:CSP

[261] S. E. El-Gendi. On Chebyshev solution of parabolic partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 16(3):283–289, 1975. CODEN JMTAA8. ISSN 0020-2932.

ElTom:1971:ASF

[262] M. E. A. El Tom. Application of spline functions to Volterra integral equations. *Journal of the Institute of Mathematics and its Applications*, 8(??):354–357, 1971. CODEN JMTAA8. ISSN 0020-2932.

ElTom:1974:SFA

[263] M. E. A. El Tom. Spline function approximations to the solution of singular Volterra integral equations of the second kind. *Journal of the Institute of Mathematics and its Applications*, 14(??):303–309, 1974. CODEN JMTAA8. ISSN 0020-2932.

ElTom:1976:ASF

[264] M. E. A. El Tom. Application of spline functions to systems of Volterra integral equations of the first and second kinds. *Journal of the Institute of Mathematics and its Applications*, 17(3):295–310, 1976. CODEN JMTAA8. ISSN 0020-2932.

Elliott:1980:VIF

[265] C. M. Elliott. On a variational inequality formulation of an electrochemical machining moving boundary problem and its approximation by the finite element method. *Journal of the Institute of Mathematics and its Applications*, 25 (2):121–131, 1980. CODEN JMTAA8. ISSN 0020-2932.

Ellman:1974:DPA

[266] D. Ellman and W. Townsend. A dynamic programming approach to the three-machine scheduling problem. *Journal of the Institute of Mathematics and its Applications*, 13(??):161–167, 1974. CODEN JMTAA8. ISSN 0020-2932.

Emamzadeh:1977:NISa

[267] A. M. Emamzadeh. Numerical investigations into the Stokes phenomenon. I. *Journal of the Institute of Mathematics and its Applications*, 19(1):77–86, 1977. CODEN JMTAA8. ISSN 0020-2932.

Emamzadeh:1977:NISb

[268] A. M. Emamzadeh. Numerical investigations into the Stokes phenomenon. II. *Journal of the Institute of Mathematics and its Applications*, 19(2):149–157, 1977. CODEN JMTAA8. ISSN 0020-2932.

Emenalo:1972:IWS

[269] S. I. Emenalo. Interaction of weak shock waves with magnetohydrodynamic boundary layers. *Journal of the Institute of Mathematics and its Applications*, 9(??):234–249, 1972. CODEN JMTAA8. ISSN 0020-2932.

England:1972:SBV

[270] A. H. England. The stress boundary value problem for plane strain deformations of an ideal fibre-reinforced material. *Journal of the Institute of Mathematics and its Applications*, 9(??):310–322, 1972. CODEN JMTAA8. ISSN 0020-2932.

Erdelyi:1968:TVE

[271] A. Erdélyi. Two-variable expansions for singular perturbations. *Journal of the Institute of Mathematics and its Applications*, 4(??):113–119, 1968. CODEN JMTAA8. ISSN 0020-2932.

Estrada:1980:ADD

[272] R. Estrada and R. P. Kanwal. Applications of distributional derivatives to wave propagation. *Journal of the Institute of Mathematics and its Applications*, 26(1):39–63, 1980. CODEN JMTAA8. ISSN 0020-2932.

Evans:1966:SIM

[273] D. J. Evans. Simplified implicit methods for the finite difference solution of parabolic and hyperbolic partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 2 (??):76–96, 1966. CODEN JMTAA8. ISSN 0020-2932.

Evans:1968:UPC

[274] D. J. Evans. The use of pre-conditioning in iterative methods for solving linear equations with symmetric positive definite matrices. *Journal of the Institute of Mathematics and its Applications*, 4 (??):295–314, 1968. CODEN JMTAA8. ISSN 0020-2932.

Evans:1971:NSF

[275] D. J. Evans. The numerical solution of the fourth boundary value problem for parabolic partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 7(??):61–75, 1971. CODEN JMTAA8. ISSN 0020-2932.

Evans:1977:NSE

[276] D. J. Evans. Numerical solution of exterior problems by the peripheral block over- relaxation method. *Journal of the Institute of Mathematics and its Applications*, 19(4):399–405, 1977. CODEN JMTAA8. ISSN 0020-2932.

Evans:1975:AND

[277] D. J. Evans and S. O. Fatunla. Accurate numerical determination of the intersection point of the solution of a differential equation with a given algebraic relation. *Journal of the Institute of Mathematics and its Applications*, 16(3):355–359, 1975. CODEN JMTAA8. ISSN 0020-2932.

Evans:1976:NWP

[278] D. V. Evans. A note on the waves produced by the small oscillations of a partially vertical plate. *Journal of the Institute of Mathematics and its Applications*, 17(??):135–140, 1976. CODEN JMTAA8. ISSN 0020-2932.

Evans:1978:OWC

[279] D. V. Evans. The oscillating water column wave-energy device. *Journal of the Institute of Mathematics and its Applications*, 22(??):423–433, 1978. CODEN JMTAA8. ISSN 0020-2932.

Evans:1972:CAS

[280] D. V. Evans and C. A. N. Morris. Complementary approximations to the solu-

tion of a problem in water waves. *Journal of the Institute of Mathematics and its Applications*, 10(??):1–9, 1972. CODEN JMTAA8. ISSN 0020-2932.

Evans:1972:EFV

[281] D. V. Evans and C. A. N. Morris. The effect of a fixed vertical barrier on obliquely incident surface waves in deep water. *Journal of the Institute of Mathematics and its Applications*, 9(??):198–204, 1972. CODEN JMTAA8. ISSN 0020-2932.

Evans:1977:STD

[282] N. T. S. Evans and A. R. Gourlay. The solution of a two-dimensional time-dependent diffusion problem concerned with oxygen metabolism in tissues. *Journal of the Institute of Mathematics and its Applications*, 19(2):239–251, 1977. CODEN JMTAA8. ISSN 0020-2932.

Exton:1980:BAH

[283] Harold Exton. A basic analogue of Hermite's equation. *Journal of the Institute of Mathematics and its Applications*, 26 (3):315–320, 1980. CODEN JMTAA8. ISSN 0020-2932.

Fairweather:1979:ASD

[284] G. Fairweather. On the approximate solution of a diffusion problem by Galerkin methods. *Journal of the Institute of Mathematics and its Applications*, 24(2): 121–137, 1979. CODEN JMTAA8. ISSN 0020-2932.

Fairweather:1965:HAA

[285] G. Fairweather and A. R. Mitchell. A high accuracy alternating direction method for the wave equation. *Journal of the Institute of Mathematics and its Applications*, 1(??):309–316, 1965. CODEN JMTAA8. ISSN 0020-2932.

Fasano:1979:LFP

[286] A. Fasano and M. Primicerio. Liquid flow in partially saturated porous media. *Journal of the Institute of Mathematics and its Applications*, 23(4):503–517, 1979. CODEN JMTAA8. ISSN 0020-2932.

Fasano:1980:MPH

[287] Antonio Fasano, Mario Primicerio, and L. Rubinstein. A model problem for heat conduction with a free boundary in a concentrated capacity. *Journal of the Institute of Mathematics and its Applications*, 26(4):327–347, 1980. CODEN JMTAA8. ISSN 0020-2932.

Faulkner:1965:DEP

[288] T. R. Faulkner. Diffraction of an electromagnetic plane-wave by a metallic strip. *Journal of the Institute of Mathematics and its Applications*, 1(??):149–163, 1965. CODEN JMTAA8. ISSN 0020-2932.

Fenton:1973:SRS

[289] J. D. Fenton. Some results for surface gravity waves on shear flows. *Journal of the Institute of Mathematics and its Applications*, 12(??):1–20, 1973. CODEN JMTAA8. ISSN 0020-2932.

Fitz-Gerald:1969:MTEa

[290] J. M. Fitz-Gerald and J. A. McGeough. Mathematical theory of electrochemical machining. I: Anodic smoothing. *Journal of the Institute of Mathematics and its Applications*, 5(??):387–408, 1969. CODEN JMTAA8. ISSN 0020-2932.

Fitz-Gerald:1969:MTEb

[291] J. M. Fitz-Gerald, J. A. McGeough, and L. McL. Marsh. Mathematical theory of electrochemical machining. II: Anodic shaping. *Journal of the Institute of Mathematics and its Applications*, 5 (??):409–421, 1969. CODEN JMTAA8. ISSN 0020-2932.

Fletcher:1969:TO

[292] R. Fletcher. A technique for orthogonalization. *Journal of the Institute of Mathematics and its Applications*, 5(??): 162–166, 1969. CODEN JMTAA8. ISSN 0020-2932.

Fletcher:1971:GQP

[293] R. Fletcher. A general quadratic programming algorithm. *Journal of the Institute of Mathematics and its Applications*, 7(??):76–91, 1971. CODEN JMTAA8. ISSN 0020-2932.

Fletcher:1975:IPF

[294] R. Fletcher. An ideal penalty function for constrained optimization. *Journal of the Institute of Mathematics and its Applications*, 15(??):319–342, 1975. CODEN JMTAA8. ISSN 0020-2932.

Fletcher:1974:MQF

[295] R. Fletcher and M. P. Jackson. Minimization of a quadratic function of many variables subject only to lower and upper bounds. *Journal of the Institute of Mathematics and its Applications*, 14 (??):159–174, 1974. CODEN JMTAA8. ISSN 0020-2932.

Ford:1975:WLS

[296] J. A. Ford. Weighted least-squares polynomial deflation. *Journal of the Institute of Mathematics and its Applications*, 16 (3):263–269, 1975. CODEN JMTAA8. ISSN 0020-2932.

Forsyth:1979:STD

[297] P. Forsyth, Jr. and H. Rasmussen. Solution of time dependent electrochemical machining problems by a co- ordinate transformation. *Journal of the Institute of Mathematics and its Applications*, 24 (??):411–424, 1979. CODEN JMTAA8. ISSN 0020-2932.

Foschini:1975:DPD

[298] G. J. Foschini and A. C. Salazar. Data pulse design — intersymbol interference aspects. *Journal of the Institute of Mathematics and its Applications*, 15 (??):225–237, 1975. CODEN JMTAA8. ISSN 0020-2932.

Foster:1971:DCV

[299] K. Foster and R. Anderson. Dual and complementary variational principles for two dimensional electrostatic problems. *Journal of the Institute of Mathematics and its Applications*, 8(??):221–224, 1971. CODEN JMTAA8. ISSN 0020-2932.

Fowler:1978:LNL

[300] A. C. Fowler. Linear and non-linear stability of heat exchangers. *Journal of the Institute of Mathematics and its Applications*, 22(??):361–382, 1978. CODEN JMTAA8. ISSN 0020-2932.

Fowler:1978:LNS

[301] A. C. Fowler. Linear and nonlinear stability of heat exchangers. *Journal of the Institute of Mathematics and its Applications*, 22(3):361–382, 1978. CODEN JMTAA8. ISSN 0020-2932.

Fox:1971:FDE

[302] L. Fox, D. F. Mayers, J. R. Ockendon, and A. B. Tayler. On a functional differential equation. *Journal of the Institute of Mathematics and its Applications*, 8 (??):271–307, 1971. CODEN JMTAA8. ISSN 0020-2932.

Fox:1969:BSL

[303] L. Fox and R. Sankar. Boundary singularities in linear elliptic differential equations. *Journal of the Institute of Mathematics and its Applications*, 5(??):340–350, 1969. CODEN JMTAA8. ISSN 0020-2932.

Fox:1973:RFM

[304] L. Fox and R. Sankar. The Regula-Falsi method for free-boundary problems. *Journal of the Institute of Mathematics and its Applications*, 12(??):49–54, 1973. CODEN JMTAA8. ISSN 0020-2932.

Fox:1969:LTE

[305] N. Fox. Low temperature effects and generalized thermoelasticity. *Journal of the Institute of Mathematics and its Applications*, 5(4):373–386, 1969. CODEN JMTAA8. ISSN 0020-2932.

Fradkin:1977:CEP

[306] L. Ju. Fradkin and G. C. Wake. The critical explosion parameter in the theory of thermal ignition. *Journal of the Institute of Mathematics and its Applications*, 20(4):471–484, 1977. CODEN JMTAA8. ISSN 0020-2932.

Franke:1977:LDS

[307] R. Franke. Locally determined smooth interpolation at irregularly spaced points in several variables. *Journal of the Institute of Mathematics and its Applications*, 19(4):471–482, 1977. CODEN JMTAA8. ISSN 0020-2932.

Freeman:1974:CRVb

[308] T. L. Freeman and L. M. Delves. On the convergence rates of variational methods. III. Unsymmetric systems. *Journal of the Institute of Mathematics and its Applications*, 14(??):311–323, 1974. CODEN JMTAA8. ISSN 0020-2932.

Freeman:1975:RES

[309] T. L. Freeman and L. M. Delves. Round-off errors and stability in variational calculations. *Journal of the Institute of Mathematics and its Applications*, 16(3): 345–353, 1975. CODEN JMTAA8. ISSN 0020-2932.

Freeman:1974:CRVa

[310] T. L. Freeman, L. M. Delves, and J. K. Reid. On the convergence rates of variational methods. II. Systems of type B, C. *Journal of the Institute of Mathematics and its Applications*, 14(??):145–157, 1974. CODEN JMTAA8. ISSN 0020-2932.

Frey:1977:EBT

[311] A. Frey, C. A. Hall, and J. C. Heinrich. On an exact boundary technique. *Journal of the Institute of Mathematics and its Applications*, 20(2):191–198, 1977. CODEN JMTAA8. ISSN 0020-2932.

Frost:1975:PFD

[312] M. G. Frost and A. Sackfield. Polynomials of the form ${}_2F_0$ as determinants. *Journal of the Institute of Mathematics and its Applications*, 16(3):389–392, 1975. CODEN JMTAA8. ISSN 0020-2932.

Fryer:1976:SEA

[313] M. J. Fryer. Some errors associated with the non-parametric estimation of density functions. *Journal of the Institute of Mathematics and its Applications*, 18 (??):371–380, 1976. CODEN JMTAA8. ISSN 0020-2932.

Fryer:1977:RSN

[314] M. J. Fryer. A review of some non-parametric methods of density estimation. *Journal of the Institute of Mathematics and its Applications*, 20(3):335–354, 1977. CODEN JMTAA8. ISSN 0020-2932.

Furzeland:1980:CSN

[315] R. M. Furzeland. A comparative study of numerical methods for moving boundary problems. *Journal of the Institute of Mathematics and its Applications*, 26(4): 411–429, 1980. CODEN JMTAA8. ISSN 0020-2932.

Fyfe:1971:LDR

[316] D. J. Fyfe. Linear dependence relations connecting equal interval Nth degree splines and their derivatives. *Journal of the Institute of Mathematics and its Applications*, 7(??):398–406, 1971. CODEN JMTAA8. ISSN 0020-2932.

Fyfe:1979:URF

[317] D. J. Fyfe and K. H. Oke. Use of residuals in Forsythe's method for polynomial curve fitting. *Journal of the Institute of Mathematics and its Applications*, 24(1): 99–108, 1979. CODEN JMTAA8. ISSN 0020-2932.

Gaffney:1976:CII

[318] P. W. Gaffney. The calculation of indefinite integrals of B-splines. *Journal of the Institute of Mathematics and its Applications*, 17(1):37–41, 1976. CODEN JMTAA8. ISSN 0020-2932.

Gaffney:1978:RPV

[319] P. W. Gaffney. The range of possible values of $f(x)$. *Journal of the Institute of Mathematics and its Applications*, 21 (2):211–226, 1978. CODEN JMTAA8. ISSN 0020-2932.

Gane:1977:BHP

[320] C. R. Gane and A. R. Gourlay. Block hopscotch procedures for second order parabolic differential equations. *Journal of the Institute of Mathematics and its Applications*, 19(2):205–216, 1977. CODEN JMTAA8. ISSN 0020-2932.

Gaster:1975:SAR

[321] M. Gaster and J. B. Roberts. Spectral analysis of randomly sampled signals. *Journal of the Institute of Mathematics and its Applications*, 15(??):195–216, 1975. CODEN JMTAA8. ISSN 0020-2932.

Gavalas:1980:STA

[322] G. R. Gavalas and Y. C. Yortsos. Short-time asymptotic solutions of the heat conduction equation with spatially varying coefficients. *Journal of the Institute of Mathematics and its Applications*, 26 (3):209–219, 1980. CODEN JMTAA8. ISSN 0020-2932.

Gelder:1976:NCV

[323] D. Gelder. The numerical calculation of viscous stratified flows. *Journal of the Institute of Mathematics and its Applications*, 17(2):225–231, 1976. CODEN JMTAA8. ISSN 0020-2932.

Genin:1966:STC

[324] J. Genin and J. S. Maybee. A stability theorem for a class of damped dynamic systems and some applications. *Journal of the Institute of Mathematics and its Applications*, 2(??):343–357, 1966. CODEN JMTAA8. ISSN 0020-2932.

Genin:1971:NLS

[325] Joseph Genin and John S. Maybee. Nonconservative linear systems with constant coefficients. *Journal of the Institute of Mathematics and its Applications*, 8(??):358–370, 1971. CODEN JMTAA8. ISSN 0020-2932.

Gentleman:1973:LSC

[326] W. Morven Gentleman. Least squares computations by Givens transformations without square roots. *Journal of the Institute of Mathematics and its Applications*, 12(??):329–336, 1973. CODEN JMTAA8. ISSN 0020-2932.

Getz:1977:SCF

[327] W. M. Getz and D. H. Jacobson. Sufficiency conditions for finite escape times in systems of quadratic differential equations. *Journal of the Institute of Mathematics and its Applications*, 19(4):377–383, 1977. CODEN JMTAA8. ISSN 0020-2932.

Ghandour:1976:TTO

[328] E. Ghandour. Two-timing and one-dimensional random wave propagation. *Journal of the Institute of Mathematics and its Applications*, 17(3):355–366, 1976. CODEN JMTAA8. ISSN 0020-2932.

Ghandour:1977:PDR

[329] E. Ghandour. Propagation of disturbances in a random medium. *Journal of the Institute of Mathematics and its Applications*, 20(4):393–407, 1977. CODEN JMTAA8. ISSN 0020-2932.

Gilder:1966:CPM

[330] J. Gilder. A class of pencils of matrices. *Journal of the Institute of Mathematics and its Applications*, 2(??):126–132, 1966. CODEN JMTAA8. ISSN 0020-2932. See errata [331].

Gilder:1966:ECP

[331] J. Gilder. Errata: A class of pencils of matrices. *Journal of the Institute of Mathematics and its Applications*, 2(??): 283, 1966. CODEN JMTAA8. ISSN 0020-2932. See [330].

Gill:1972:QNM

[332] P. E. Gill and W. Murray. Quasi-Newton methods for unconstrained optimization. *Journal of the Institute of Mathematics and its Applications*, 9(??): 91–108, 1972. CODEN JMTAA8. ISSN 0020-2932.

Gittins:1967:GRL

[333] J. C. Gittins. A generalization of a result in linear programming. *Journal of the Institute of Mathematics and its Applications*, 3(??):193–201, 1967. CODEN JMTAA8. ISSN 0020-2932.

Gladwell:1975:EBC

[334] I. Gladwell and D. J. Mullings. On the effect of boundary conditions in collocation by polynomial splines for the solution of boundary value problems in ordinary differential equations. *Journal of the Institute of Mathematics and its Applications*, 16(1):93–107, 1975. CODEN JMTAA8. ISSN 0020-2932.

Gladwell:1972:PEB

[335] Ian Gladwell. A posteriori error bounds for approximate solutions of linear second-order ordinary differential equations. *Journal of the Institute of Mathematics and its Applications*, 9(??):323–349, 1972. CODEN JMTAA8. ISSN 0020-2932.

Gladwell:1973:RRM

[336] Ian Gladwell. Rayleigh–Ritz methods for nonlinear boundary value problems. with an appendix: Analytical and numerical examples, by I. Gladwell and J. L. Lloyd. *Journal of the Institute of Mathematics and its Applications*, 11 (??):191–211, 1973. CODEN JMTAA8. ISSN 0020-2932.

Glen:1973:COC

[337] J. A. Glen. A criterion for an optimal control system to have finite switchings. *Journal of the Institute of Mathematics and its Applications*, 11(??):45–55, 1973. CODEN JMTAA8. ISSN 0020-2932.

Glover:1973:SNI

[338] Keith Glover and Jan C. Willems. On the stability of numerical integration routines for ordinary differential equations. *Journal of the Institute of Mathematics and its Applications*, 11(??):171–180, 1973. CODEN JMTAA8. ISSN 0020-2932.

Godwin:1979:SCL

[339] A. N. Godwin. Spline curves with length constraints. *Journal of the Institute of Mathematics and its Applications*, 24(2): 219–229, 1979. CODEN JMTAA8. ISSN 0020-2932.

Goodinson:1968:EMF

[340] P. A. Goodinson and R. A. Newing. Einstein–Maxwell fields with non-zero charge-current distribution. *Journal of the Institute of Mathematics and its Applications*, 4(??):270–275, 1968. CODEN JMTAA8. ISSN 0020-2932.

Goodinson:1969:EMN

[341] P. A. Goodinson and R. A. Newing. Einstein–Maxwell null fields with non-zero current distribution. *Journal of the Institute of Mathematics and its Applications*, 5(??):72–90, 1969. CODEN JMTAA8. ISSN 0020-2932.

Goodinson:1970:EMF

[342] P. A. Goodinson and R. A. Newing. Einstein–Maxwell fields in the presence of matter and pressure. *Journal of the Institute of Mathematics and its Applications*, 6(??):212–221, 1970. CODEN JMTAA8. ISSN 0020-2932.

Gourlay:1970:CAP

[343] A. R. Gourlay. On Chebychev acceleration procedures for alternating direction iterative methods. *Journal of the Institute of Mathematics and its Applications*, 6(??):1–11, 1970. CODEN JMTAA8. ISSN 0020-2932.

Gourlay:1971:GHA

[344] A. R. Gourlay and G. R. McGuire. General hopscotch algorithm for the numerical solution of partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 7(??):216–227, 1971. CODEN JMTAA8. ISSN 0020-2932.

Gourlay:1972:SAD

[345] A. R. Gourlay and A. R. Mitchell. On the structure of alternating direction

implicit (A.D.I.) and locally one dimensional (L.O.D.) difference methods. *Journal of the Institute of Mathematics and its Applications*, 9(??):80–90, 1972. CODEN JMTAA8. ISSN 0020-2932.

Grad:1973:MEZ

[346] J. Grad and E. Zakrajšek. Method for evaluation of zeros of Bessel functions. *Journal of the Institute of Mathematics and its Applications*, 11(??):57–72, 1973. CODEN JMTAA8. ISSN 0020-2932.

Granoff:1966:ASH

[347] B. Granoff and R. M. Lewis. Asymptotic solution of hyperbolic systems with constant coefficients. *Journal of the Institute of Mathematics and its Applications*, 2(??):144–156, 1966. CODEN JMTAA8. ISSN 0020-2932.

Grant:1974:NTO

[348] I. P. Grant and D. Ellison. A numerical treatment of one-dimensional models of radiative heat transfer in co-current tube furnaces. *Journal of the Institute of Mathematics and its Applications*, 13 (??):169–185, 1974. CODEN JMTAA8. ISSN 0020-2932.

Grant:1971:ACM

[349] J. A. Grant and G. D. Hitchins. An always convergent minimization technique for the solution of polynomial equations. *Journal of the Institute of Mathematics and its Applications*, 8(??):122–129, 1971. CODEN JMTAA8. ISSN 0020-2932.

Grattan-Guinness:1969:JFR

[350] I. Grattan-Guinness. Joseph Fourier and the revolution in mathematical physics. *Journal of the Institute of Mathematics and its Applications*, 5(??):230–253, 1969. CODEN JMTAA8. ISSN 0020-2932.

Graves-Morris:1978:PAL

[351] P. R. Graves-Morris. Padé approximants for linear integral equations? *Journal of the Institute of Mathematics and its Applications*, 21(??):375–378, 1978. CODEN JMTAA8. ISSN 0020-2932.

Graves-Morris:1980:PRR

[352] P. R. Graves-Morris. Practical, reliable, rational interpolation. *Journal of the Institute of Mathematics and its Applications*, 25(3):267–286, 1980. CODEN JMTAA8. ISSN 0020-2932.

Graves-Morris:1974:CSR

[353] P. R. Graves-Morris, R. Hughes Jones, and G. J. Makinson. The calculation of some rational approximants in two variables. *Journal of the Institute of Mathematics and its Applications*, 13(??):311–320, 1974. CODEN JMTAA8. ISSN 0020-2932.

Green:1977:TET

[354] A. E. Green and J. Z. Mkrtichian. Torsion and extension of a tube with different moduli in tension and compression. *Journal of the Institute of Mathematics and its Applications*, 20(??):221–226, 1977. CODEN JMTAA8. ISSN 0020-2932.

Green:1978:NRC

[355] A. E. Green and D. Nicol. A note on reinforced cylindrical tubes. *Journal of the Institute of Mathematics and its Applications*, 21(??):227–235, 1978. CODEN JMTAA8. ISSN 0020-2932.

Green:1974:RH

[356] A. E. Green and M. Troth. Reinforced hosepipes. *Journal of the Institute of*

Mathematics and its Applications, 13 (??):39–46, 1974. CODEN JMTAA8. ISSN 0020-2932.

Green:1971:PCO

[357] M. W. Green. A problem connected with the oblique incidence of surface waves on an immersed cylinder. *Journal of the Institute of Mathematics and its Applications*, 8(??):82–98, 1971. CODEN JMTAA8. ISSN 0020-2932.

Greenspan:1978:CSS

[358] D. Greenspan and J. Collier. Computer studies of swirling particle fluids and the evolution of planetary-type bodies. *Journal of the Institute of Mathematics and its Applications*, 22(??):235–253, 1978. CODEN JMTAA8. ISSN 0020-2932.

Greenspan:1972:NSF

[359] Donald Greenspan. Numerical studies of flow between rotating coaxial disks. *Journal of the Institute of Mathematics and its Applications*, 9(??):370–377, 1972. CODEN JMTAA8. ISSN 0020-2932.

Griffel:1976:ADP

[360] D. H. Griffel. Age-dependent population growth. *Journal of the Institute of Mathematics and its Applications*, 17(2): 141–152, 1976. CODEN JMTAA8. ISSN 0020-2932.

Griffiths:1977:NSS

[361] D. F. Griffiths. A numerical study of a singular elliptic boundary value problem. *Journal of the Institute of Mathematics and its Applications*, 19(1):59–69, 1977. CODEN JMTAA8. ISSN 0020-2932.

Griffiths:1976:MMP

[362] J. D. Griffiths and C. Cresswell. A mathematical model of a pelican crossing. *Journal of the Institute of Mathematics and its Applications*, 18(3):381–394, 1976. CODEN JMTAA8. ISSN 0020-2932.

Grimshaw:1968:PSW

[363] R. Grimshaw. Propagation of surface waves at high frequencies. *Journal of the Institute of Mathematics and its Applications*, 4(??):174–193, 1968. CODEN JMTAA8. ISSN 0020-2932.

Grundy:1977:LTI

[364] R. E. Grundy. Laplace transform inversion using two-point rational approximants. *Journal of the Institute of Mathematics and its Applications*, 20(3):299–306, 1977. CODEN JMTAA8. ISSN 0020-2932.

Grundy:1978:SNL

[365] R. E. Grundy. On the solution of non-linear Volterra integral equations using two-point rational approximants. *Journal of the Institute of Mathematics and its Applications*, 22(3):317–320, 1978. CODEN JMTAA8. ISSN 0020-2932.

Grundy:1978:SVI

[366] R. E. Grundy. The solution of Volterra integral equations of the convolution type using two-point rational approximants. *Journal of the Institute of Mathematics and its Applications*, 22(2):147–158, 1978. CODEN JMTAA8. ISSN 0020-2932.

Gunson:1978:ASF

[367] J. Gunson and P. H. Ng. Approximation of special functions of complex variables.

Journal of the Institute of Mathematics and its Applications, 22(1):43–52, 1978. CODEN JMTAA8. ISSN 0020-2932.

Guttmann:1975:DFR

[368] A. J. Guttmann. Derivation of 1/2 mimic functions1/2 from regular perturbation expansions in fluid mechanics. *Journal of the Institute of Mathematics and its Applications*, 15(??):307–317, 1975. CODEN JMTAA8. ISSN 0020-2932.

Hackbusch:1980:FNS

[369] Wolfgang Hackbusch. The fast numerical solution of very large elliptic difference schemes. *Journal of the Institute of Mathematics and its Applications*, 26 (2):119–132, 1980. CODEN JMTAA8. ISSN 0020-2932.

Hadjidimos:1970:SFD

[370] A. Hadjidimos. Solving the four-dimensional Laplace's equation by using extrapolated alternating direction implicit methods. *Journal of the Institute of Mathematics and its Applications*, 6 (??):232–240, 1970. CODEN JMTAA8. ISSN 0020-2932.

Hadjidimos:1971:OEA

[371] Apostolos Hadjidimos. Optimum extrapolated alternating direction implicit schemes in the presence of singular matrices. *Journal of the Institute of Mathematics and its Applications*, 7(??):361–366, 1971. CODEN JMTAA8. ISSN 0020-2932.

Hall:1978:FES

[372] C. A. Hall and J. Heinrich. A finite element that satisfies natural boundary conditions exactly. *Journal of the Institute of Mathematics and its Applications*, 21(??):237–250, 1978. CODEN JMTAA8. ISSN 0020-2932.

Hall:1973:CRA

[373] C. A. Hall and J. W. Kennedy. Convergence of a Ritz approximation for the steady state heat flow problem. *Journal of the Institute of Mathematics and its Applications*, 12(??):187–196, 1973. CODEN JMTAA8. ISSN 0020-2932.

Hammarling:1974:NMG

[374] Sven Hammarling. A note on modifications to the Givens plane rotation. *Journal of the Institute of Mathematics and its Applications*, 13(??):215–218, 1974. CODEN JMTAA8. ISSN 0020-2932.

Handscomb:1973:RST

[375] D. C. Handscomb. The relative sizes of the terms in Chebyshev and other ultraspherical expansions. *Journal of the Institute of Mathematics and its Applications*, 11(??):241–246, 1973. CODEN JMTAA8. ISSN 0020-2932.

Handscomb:1977:VSW

[376] D. C. Handscomb. Vibration of a submerged window. *Journal of the Institute of Mathematics and its Applications*, 20 (??):183–189, 1977. CODEN JMTAA8. ISSN 0020-2932.

Hannabuss:1974:ICH

[377] K. C. Hannabuss. The irreducible components of homogeneous functions and symmetric tensors. *Journal of the Institute of Mathematics and its Applications*, 14(??):83–88, 1974. CODEN JMTAA8. ISSN 0020-2932.

Hansen:1974:MBP

[378] E. Hansen and P. Hougaard. On a moving boundary problem from biomechan-

ics. *Journal of the Institute of Mathematics and its Applications*, 13(??):385–398, 1974. CODEN JMTAA8. ISSN 0020-2932.

Hargrave:1974:UAEb

[379] B. A. Hargrave. Uniform asymptotic expansions for ellipsoidal wave functions. II: Ellipsoidal wave functions. *Journal of the Institute of Mathematics and its Applications*, 14(??):189–196, 1974. CODEN JMTAA8. ISSN 0020-2932.

Hargrave:1974:NST

[380] B. A. Hargrave and B. D. Sleeman. The numerical solution of two-parameter eigenvalue problems in ordinary differential equations with an application to the problem of diffraction by a plane angular sector. *Journal of the Institute of Mathematics and its Applications*, 14(??):9–22, 1974. CODEN JMTAA8. ISSN 0020-2932.

Hargrave:1974:UAEa

[381] B. A. Hargrave and B. D. Sleeman. Uniform asymptotic expansions for ellipsoidal wave functions. I. High frequency solutions of the ellipsoidal wave equations. *Journal of the Institute of Mathematics and its Applications*, 14(??):31–40, 1974. CODEN JMTAA8. ISSN 0020-2932.

Harley:1976:ECP

[382] P. J. Harley and A. R. Mitchell. Exact control of a parabolic differential equation using an implicit Runge–Kutta method. *Journal of the Institute of Mathematics and its Applications*, 18(1):9–14, 1976. CODEN JMTAA8. ISSN 0020-2932.

Hart:1973:QNM

[383] W. E. Hart and S. O. W. Soul. Quasi-Newton methods for discretized non-linear boundary problems. *Journal of the Institute of Mathematics and its Applications*, 11(??):351–359, 1973. CODEN JMTAA8. ISSN 0020-2932.

Hawkins:1972:CSP

[384] Douglas M. Hawkins. On the choice of segments in piecewise approximation. *Journal of the Institute of Mathematics and its Applications*, 9(??):250–256, 1972. CODEN JMTAA8. ISSN 0020-2932.

Hayes:1974:LSF

[385] J. G. Hayes and J. Halliday. The least-squares fitting of cubic spline surfaces to general data sets. *Journal of the Institute of Mathematics and its Applications*, 14(??):89–103, 1974. CODEN JMTAA8. ISSN 0020-2932.

Hayes:1976:SNL

[386] L. Hayes and E. Wasserstrom. Solution of non-linear eigenvalue problems by the continuation method. *Journal of the Institute of Mathematics and its Applications*, 17(1):5–14, 1976. CODEN JMTAA8. ISSN 0020-2932.

Hazlewood:1977:ASC

[387] L. J. Hazlewood. An alternative strategy for cautious adaptive quadrature. *Journal of the Institute of Mathematics and its Applications*, 20(4):505–518, 1977. CODEN JMTAA8. ISSN 0020-2932.

Heading:1978:CTC

[388] J. Heading. Calculation of transmission coefficients for generalized propagation problems. *Journal of the Institute*

of Mathematics and its Applications, 21 (??):387–400, 1978. CODEN JMTAA8. ISSN 0020-2932.

Heading:1980:PSG

[389] J. Heading. Properties of some generalized hypergeometric functions governing coupling at transition points. *Journal of the Institute of Mathematics and its Applications*, 25(3):311–324, 1980. CODEN JMTAA8. ISSN 0020-2932.

Heading:1968:WPG

[390] John Heading. Wave propagation governed by an infinite number of transition points. *Journal of the Institute of Mathematics and its Applications*, 4(??): 123–139, 1968. CODEN JMTAA8. ISSN 0020-2932.

Heading:1972:FEA

[391] John Heading. Further exact and approximate considerations of the barrier problem. *Journal of the Institute of Mathematics and its Applications*, 10 (??):312–324, 1972. CODEN JMTAA8. ISSN 0020-2932.

Hegedus:1979:DMC

[392] C. J. Hegedus, G. Kadar, and E. Della Torre. Demagnetization matrices for cylindrical bodies. *Journal of the Institute of Mathematics and its Applications*, 24(??):279–291, 1979. CODEN JMTAA8. ISSN 0020-2932.

Henderson:1969:PAT

[393] J. C. Henderson and E. A. W. Maunder. A problem in applied topology: On the selection of cycles for the flexibility analysis of skeletal structures. *Journal of the Institute of Mathematics and its Applications*, 5(??):254–269, 1969. CODEN JMTAA8. ISSN 0020-2932.

Henery:1974:SWH

[394] R. J. Henery. Solution of Wiener–Hopf integral equations using the Fast Fourier Transform. *Journal of the Institute of Mathematics and its Applications*, 13 (??):89–96, 1974. CODEN JMTAA8. ISSN 0020-2932.

Henery:1977:SFE

[395] R. J. Henery. Solution of Fredholm equations with symmetric difference kernels. *Journal of the Institute of Mathematics and its Applications*, 19(1):29–37, 1977. CODEN JMTAA8. ISSN 0020-2932.

Herbert:1966:SEB

[396] R. E. Herbert. Stability of elastic bodies subjected to body and pressure forces with specialization to thin shells. *Journal of the Institute of Mathematics and its Applications*, 2(??):248–265, 1966. CODEN JMTAA8. ISSN 0020-2932.

Herman:1980:SEA

[397] G. T. Herman, A. Lent, and H. Hurwitz. A storage-efficient algorithm for finding the regularized solution of a large, inconsistent system of equations. *Journal of the Institute of Mathematics and its Applications*, 25(4):361–366, 1980. CODEN JMTAA8. ISSN 0020-2932.

Herrera:1980:VPP

[398] I. Herrera. Variational principles for problems with linear constraints: prescribed jumps and continuation type restrictions. *Journal of the Institute of Mathematics and its Applications*, 25(1): 67–96, 1980. CODEN JMTAA8. ISSN 0020-2932.

Herrera:1978:DEP

[399] I. Herrera and M. J. Sewell. Dual extremum principles for non-negative un-

symmetric operators. *Journal of the Institute of Mathematics and its Applications*, 21(??):95–115, 1978. CODEN JMTAA8. ISSN 0020-2932.

Hill:1970:ATG

[400] W. Hill and P. R. Wallis. The application of the theory of games to mine countermeasures tactics. *Journal of the Institute of Mathematics and its Applications*, 6(??):27–41, 1970. CODEN JMTAA8. ISSN 0020-2932.

Hillion:1977:RRA

[401] P. Hillion. Remarks on rational approximations of multiple power series. *Journal of the Institute of Mathematics and its Applications*, 19(3):281–293, 1977. CODEN JMTAA8. ISSN 0020-2932.

Hocking:1971:DDPa

[402] L. M. Hocking. Diffusion from disjoint plane domains. I. The interaction of two domains. *Journal of the Institute of Mathematics and its Applications*, 8(??):139–152, 1971. CODEN JMTAA8. ISSN 0020-2932.

Hocking:1971:DDPb

[403] L. M. Hocking. Diffusion from disjoint plane domains. II. Arrays of domains, with application to the response of a muscle to a drug. *Journal of the Institute of Mathematics and its Applications*, 8(??):153–163, 1971. CODEN JMTAA8. ISSN 0020-2932.

Holt:1979:ACN

[404] J. N. Holt and R. Fletcher. An algorithm for constrained non-linear least-squares. *Journal of the Institute of Mathematics and its Applications*, 23(4):449–463, 1979. CODEN JMTAA8. ISSN 0020-2932.

Honda:1965:SFC

[405] M. Honda. Stream-function co-ordinates in rotational flow and an analysis of the flow in shock layer. I. Two-dimensional flow. *Journal of the Institute of Mathematics and its Applications*, 1(??):127–148, 1965. CODEN JMTAA8. ISSN 0020-2932.

Hopgood:1974:IRF

[406] D. J. Hopgood and S. McKee. Improved root-finding methods derived from inverse interpolation. *Journal of the Institute of Mathematics and its Applications*, 14(??):217–228, 1974. CODEN JMTAA8. ISSN 0020-2932.

Hoshino:1972:FVM

[407] S. Hoshino. A formulation of variable metric methods. *Journal of the Institute of Mathematics and its Applications*, 10(??):394–403, 1972. CODEN JMTAA8. ISSN 0020-2932.

Hoshino:1973:MCA

[408] Satoshi Hoshino. A method of centres algorithm with arbitrary parameter and its application. *Journal of the Institute of Mathematics and its Applications*, 12(??):319–328, 1973. CODEN JMTAA8. ISSN 0020-2932.

Howard:1971:ASV

[409] I. C. Howard. An approximation for slowly varying waves in elastic rods. *Journal of the Institute of Mathematics and its Applications*, 7(??):47–60, 1971. CODEN JMTAA8. ISSN 0020-2932.

Howe:1973:ANM

[410] D. Howe. The application of numerical methods to the conformal transformation of polygonal boundaries. *Journal*

of the Institute of Mathematics and its Applications, 12(??):125–136, 1973. CODEN JMTAA8. ISSN 0020-2932.

Huang:1979:IJT

[411] C. P. Huang. The implementation of a Jacobi-type method. *Journal of the Institute of Mathematics and its Applications*, 23(4):497–501, 1979. CODEN JMTAA8. ISSN 0020-2932.

HughesJones:1974:GCR

[412] R. Hughes Jones and G. J. Makinson. The generation of Chisholm rational polynomial approximants to power series in two variables. *Journal of the Institute of Mathematics and its Applications*, 13(??):299–310, 1974. CODEN JMTAA8. ISSN 0020-2932.

Hunt:1967:TER

[413] G. E. Hunt. The transport equation of radiative transfer in a three-dimensional space with anisotropic scattering. *Journal of the Institute of Mathematics and its Applications*, 3(??):181–192, 1967. CODEN JMTAA8. ISSN 0020-2932.

Ingham:1975:PSC

[414] D. B. Ingham. Plane sub-critical flow past a lifting aerofoil. *Journal of the Institute of Mathematics and its Applications*, 16(??):73–80, 1975. CODEN JMTAA8. ISSN 0020-2932.

Ingham:1977:FPI

[415] D. B. Ingham. Flow past an impulsively started semi-infinite flat plate in the presence of a magnetic field. *Journal of the Institute of Mathematics and its Applications*, 20(4):459–469, 1977. CODEN JMTAA8. ISSN 0020-2932.

Ingham:1978:FPS

[416] D. B. Ingham. Flow past a suddenly cooled vertical plate. *Journal of the Institute of Mathematics and its Applications*, 22(2):189–196, 1978. CODEN JMTAA8. ISSN 0020-2932.

Iordanidis:1971:NST

[417] K. I. Iordanidis. Numerical solution of the third boundary value problem for Laplace's equation. *Journal of the Institute of Mathematics and its Applications*, 8(??):308–314, 1971. CODEN JMTAA8. ISSN 0020-2932.

Iordanidis:1973:NSR

[418] K. I. Iordanidis. Numerical solution of the Robin problem by extrapolated A. D. I. methods. *Journal of the Institute of Mathematics and its Applications*, 12 (??):91–96, 1973. CODEN JMTAA8. ISSN 0020-2932.

Iordanidis:1975:UCE

[419] K. I. Iordanidis. Using crude eigenvalue bounds in the numerical solution of the third boundary value problem in 2- and 3-dimensional space. *Journal of the Institute of Mathematics and its Applications*, 15(??):249–256, 1975. CODEN JMTAA8. ISSN 0020-2932.

Iyengar:1978:HAD

[420] S. R. K. Iyengar and R. C. Mittal. High accuracy difference schemes for the cylindrical heat conduction equation. *Journal of the Institute of Mathematics and its Applications*, 22(3):321–330, 1978. CODEN JMTAA8. ISSN 0020-2932.

Jain:1974:HOD

[421] M. K. Jain and Settaluri R. K. Iyengar. Higher order difference formulae for the

numerical solution of the heat conduction equation. *Journal of the Institute of Mathematics and its Applications*, 13 (??):147–151, 1974. CODEN JMTAA8. ISSN 0020-2932.

Jain:1971:ORK

[422] R. K. Jain and M. K. Jain. Optimum Runge–Kutta Fehlberg methods for first order differential equations. *Journal of the Institute of Mathematics and its Applications*, 8(??):386–396, 1971. CODEN JMTAA8. ISSN 0020-2932.

Jain:1972:ORK

[423] R. K. Jain and M. K. Jain. Optimum Runge–Kutta–Fehlberg methods for second-order differential equations. *Journal of the Institute of Mathematics and its Applications*, 10(??):202–210, 1972. CODEN JMTAA8. ISSN 0020-2932.

James:1974:TOC

[424] Eleanor M. James. Time optimal control and the van der Pol oscillator. *Journal of the Institute of Mathematics and its Applications*, 13(??):67–81, 1974. CODEN JMTAA8. ISSN 0020-2932.

Jarratt:1974:ABC

[425] P. Jarratt and N. Parkin. On the asymptotic behaviour of a certain non-linear difference equation. *Journal of the Institute of Mathematics and its Applications*, 13(??):83–88, 1974. CODEN JMTAA8. ISSN 0020-2932.

Jarvis:1971:SSW

[426] R. J. Jarvis. The scattering of surface waves by two vertical plane barriers. *Journal of the Institute of Mathematics and its Applications*, 7(??):207–215, 1971. CODEN JMTAA8. ISSN 0020-2932.

Jeffrey:1978:TFE

[427] D. J. Jeffrey. The temperature field or electric potential around two almost touching spheres. With an appendix by M. Van Dyke. *Journal of the Institute of Mathematics and its Applications*, 22 (3):337–351, 1978. CODEN JMTAA8. ISSN 0020-2932.

Jeffreys:1977:PTG

[428] Harold Jeffreys. Probability theory in geophysics. *Journal of the Institute of Mathematics and its Applications*, 19(1): 87–96, 1977. CODEN JMTAA8. ISSN 0020-2932.

Jennings:1977:IES

[429] A. Jennings. Influence of the eigenvalue spectrum on the convergence rate of the conjugate gradient method. *Journal of the Institute of Mathematics and its Applications*, 20(1):61–72, 1977. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Jennings:1978:SLG

[430] A. Jennings, J. Halliday, and M. J. Cole. Solution of linear generalized eigenvalue problems containing singular matrices. *Journal of the Institute of Mathematics and its Applications*, 22(4):401–410, 1978. CODEN JMTAA8. ISSN 0020-2932.

Jennings:1977:PE

[431] A. Jennings and G. M. Malik. Partial elimination. *Journal of the Institute of Mathematics and its Applications*, 20(3): 307–316, 1977. CODEN JMTAA8. ISSN 0020-2932.

Jennings:1975:SIP

[432] A. Jennings and W. J. Stewart. Simultaneous iteration for partial eigensolution

of real matrices. *Journal of the Institute of Mathematics and its Applications*, 15 (??):351–361, 1975. CODEN JMTAA8. ISSN 0020-2932.

Jennings:1971:ACM

[433] Alan Jennings. Accelerating the convergence of matrix iterative processes. *Journal of the Institute of Mathematics and its Applications*, 8(??):99–110, 1971. CODEN JMTAA8. ISSN 0020-2932.

Jennings:1977:GEP

[434] L. S. Jennings and M. R. Osborne. Generalized eigenvalue problems for rectangular matrices. *Journal of the Institute of Mathematics and its Applications*, 20 (4):443–458, 1977. CODEN JMTAA8. ISSN 0020-2932.

Johnson:1973:EAN

[435] L. W. Johnson and R. D. Riess. An error analysis for numerical differentiation. *Journal of the Institute of Mathematics and its Applications*, 11(??):115–120, 1973. CODEN JMTAA8. ISSN 0020-2932.

Johnson:1979:GHI

[436] L. W. Johnson and R. D. Riess. Gauss harmonic interpolation formulas for circular regions. *Journal of the Institute of Mathematics and its Applications*, 23 (2):215–222, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Johnson:1979:BOP

[437] M. A. Johnson. Bounds for an optimization problem with a linear programming structure. *Journal of the Institute of Mathematics and its Applications*, 24(4): 395–410, 1979. CODEN JMTAA8. ISSN 0020-2932.

Jones:1976:EHO

[438] B. Jones. Extrapolation for higher orders of convergence. *Journal of the Institute of Mathematics and its Applications*, 17(1):27–36, 1976. CODEN JMTAA8. ISSN 0020-2932.

Jones:1965:SRH

[439] D. S. Jones. Some remarks on Hilbert transforms. *Journal of the Institute of Mathematics and its Applications*, 1(??): 226–240, 1965. CODEN JMTAA8. ISSN 0020-2932.

Jones:1966:FTM

[440] D. S. Jones. Fourier transforms and the method of stationary phase. *Journal of the Institute of Mathematics and its Applications*, 2(??):197–222, 1966. CODEN JMTAA8. ISSN 0020-2932.

Jones:1972:ASD

[441] D. S. Jones. Aerodynamic sound due to a source near a half-plane. *Journal of the Institute of Mathematics and its Applications*, 9(??):114–122, 1972. CODEN JMTAA8. ISSN 0020-2932.

Jones:1973:VMA

[442] D. S. Jones. The variable metric algorithm for non-definite quadratic functions. *Journal of the Institute of Mathematics and its Applications*, 12(??):63–71, 1973. CODEN JMTAA8. ISSN 0020-2932.

Jones:1975:SSV

[443] D. S. Jones. The scattering of sound by a vortex sheet. *Journal of the Institute of Mathematics and its Applications*, 15(??):33–57, 1975. CODEN JMTAA8. ISSN 0020-2932.

Jones:1978:ASP

[444] D. S. Jones. Acoustics of a splitter plate. *Journal of the Institute of Mathematics and its Applications*, 21(??):197–209, 1978. CODEN JMTAA8. ISSN 0020-2932.

Jones:1979:LFE

[445] D. S. Jones. Low frequency electromagnetic radiation. *Journal of the Institute of Mathematics and its Applications*, 23 (4):421–447, 1979. CODEN JMTAA8. ISSN 0020-2932.

Jones:1980:KLT

[446] D. S. Jones. The Kontorovich–Lebedev transform. *Journal of the Institute of Mathematics and its Applications*, 26(2): 133–141, 1980. CODEN JMTAA8. ISSN 0020-2932.

Jones:1979:NID

[447] D. S. Jones and G. G. Swinerd. A note on the intersection of dispersion curves of a fluid-loaded elastic plate. *Journal of the Institute of Mathematics and its Applications*, 23(??):311–319, 1979. CODEN JMTAA8. ISSN 0020-2932.

Joslin:1975:MNL

[448] T. Joslin and S. McKee. A mildly non-linear system of parabolic differential equations arising from mass transfer with chemical reaction in electrochemistry. *Journal of the Institute of Mathematics and its Applications*, 15(??):373–383, 1975. CODEN JMTAA8. ISSN 0020-2932.

Kalker:1977:SDE

[449] J. J. Kalker. The surfaces displacement of an elastic half-space loaded in a slender, bounded, curved surface region with application to the calculation of the contact pressure under a roller. *Journal of the Institute of Mathematics and its Applications*, 19(??):127–144, 1977. CODEN JMTAA8. ISSN 0020-2932.

Kalker:1977:VPC

[450] J. J. Kalker. Variational principles of contact elastostatics. *Journal of the Institute of Mathematics and its Applications*, 20(2):199–219, 1977. CODEN JMTAA8. ISSN 0020-2932.

Kambo:1971:ECG

[451] N. S. Kambo. Error of certain Gauss quadrature formulas. *Journal of the Institute of Mathematics and its Applications*, 7(??):303–307, 1971. CODEN JMTAA8. ISSN 0020-2932.

Kambo:1973:NAM

[452] N. S. Kambo. A note on asymptotic minimal weights for an integration rule. *Journal of the Institute of Mathematics and its Applications*, 12(??):159–164, 1973. CODEN JMTAA8. ISSN 0020-2932.

Karlsson:1971:UPE

[453] Per W. Karlsson. On the uniqueness and propagation of the electromagnetic field. *Journal of the Institute of Mathematics and its Applications*, 8(??):1–7, 1971. CODEN JMTAA8. ISSN 0020-2932.

Kartsatos:1975:BEP

[454] A. G. Kartsatos and J. R. Ward. Boundedness and existence of periodic solutions of quasi-linear systems. *Journal of the Institute of Mathematics and its Applications*, 15(??):187–194, 1975. CODEN JMTAA8. ISSN 0020-2932.

Keast:1979:SFS

[455] P. Keast. Some fully symmetric quadrature formulae for product spaces. *Journal of the Institute of Mathematics and its Applications*, 23(3):251–264, 1979. CODEN JMTAA8. ISSN 0020-2932.

Keller:1972:DMR

[456] J. B. Keller, R. E. Kleinman, and T. B. A. Senior. Dipole moments in Rayleigh scattering. *Journal of the Institute of Mathematics and its Applications*, 9(??):14–22, 1972. CODEN JMTAA8. ISSN 0020-2932.

Kershaw:1973:TIC

[457] D. Kershaw. Two interpolatory cubic splines. *Journal of the Institute of Mathematics and its Applications*, 11 (??):329–333, 1973. CODEN JMTAA8. ISSN 0020-2932.

Kershaw:1977:BIB

[458] D. Kershaw. A bound on the inverse of a band matrix which occurs in interpolation by periodic odd order splines. *Journal of the Institute of Mathematics and its Applications*, 20(2):227–228, 1977. CODEN JMTAA8. ISSN 0020-2932.

Khalil:1975:TPF

[459] H. M. Khalil and J. H. Giese. A two-parameter family of two-level higher order difference methods for the two-dimensional heat equation. *Journal of the Institute of Mathematics and its Applications*, 16(2):193–205, 1975. CODEN JMTAA8. ISSN 0020-2932.

Knibb:1973:NSP

[460] D. Knibb. The numerical solution of parabolic partial differential equations using the method of Lanczos. *Journal of the Institute of Mathematics and its Applications*, 11(??):181–190, 1973. CODEN JMTAA8. ISSN 0020-2932.

Knibb:1978:CMN

[461] D. Knibb and R. E. Scraton. A collocation method for the numerical solution of non-linear parabolic partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 22 (3):305–315, 1978. CODEN JMTAA8. ISSN 0020-2932.

Kotorynski:1979:SVC

[462] W. P. Kotorynski. Slowly varying channel flows in three dimensions. *Journal of the Institute of Mathematics and its Applications*, 24(1):71–80, 1979. CODEN JMTAA8. ISSN 0020-2932.

Krenk:1978:NQP

[463] S. Krenk. Numerical quadrature of periodic singular integral equations. *Journal of the Institute of Mathematics and its Applications*, 21(??):181–187, 1978. CODEN JMTAA8. ISSN 0020-2932.

Krenk:1978:QFC

[464] S. Krenk. Quadrature formulae of closed type for solution of singular integral equations. *Journal of the Institute of Mathematics and its Applications*, 22(1): 99–107, 1978. CODEN JMTAA8. ISSN 0020-2932.

Kubicek:1973:GPM

[465] M. Kubíček and V. Hlaváček. General parameter mapping technique — a procedure of solution of non-linear boundary value problems depending on an actual parameter. *Journal of the Institute of Mathematics and its Applications*, 12 (??):287–293, 1973. CODEN JMTAA8. ISSN 0020-2932.

Kumar:1974:CGQ

[466] R. Kumar. Certain Gaussian quadratures. *Journal of the Institute of Mathematics and its Applications*, 14(??):175–182, 1974. CODEN JMTAA8. ISSN 0020-2932.

Kumar:1980:NQF

[467] S. Kumar. A note on quadrature formulae for Cauchy principal value integrals. *Journal of the Institute of Mathematics and its Applications*, 26(4):447–451, 1980. CODEN JMTAA8. ISSN 0020-2932.

Kydes:1977:HMD

[468] A. S. Kydes and R. P. Tewarson. Householder modification for damped least squares solutions. *Journal of the Institute of Mathematics and its Applications*, 19(4):407–423, 1977. CODEN JMTAA8. ISSN 0020-2932.

Lam:1978:SLS

[469] C. F. Lam and J. Pedersen. Solving large sets of differential equations describing queueing systems with the aid of a dynamic allocation algorithm. *Journal of the Institute of Mathematics and its Applications*, 22(4):435–441, 1978. CODEN JMTAA8. ISSN 0020-2932.

Lambert:1976:SMM

[470] J. D. Lambert and I. A. Watson. Symmetric multistep methods for periodic initial value problems. *Journal of the Institute of Mathematics and its Applications*, 18(2):189–202, 1976. CODEN JMTAA8. ISSN 0020-2932.

Lancaster:1976:IRF

[471] P. Lancaster. Interpolation in a rectangle and finite elements of high degree. *Journal of the Institute of Mathematics and its Applications*, 18(1):67–77, 1976. CODEN JMTAA8. ISSN 0020-2932.

Lardner:1971:DMC

[472] R. W. Lardner. Dislocations in materials with couple stress. *Journal of the Institute of Mathematics and its Applications*, 7(??):126–137, 1971. CODEN JMTAA8. ISSN 0020-2932.

Lardner:1976:NLD

[473] R. W. Lardner and G. N. Bojadziev. Non-linear differential equations with damping and large time delay. *Journal of the Institute of Mathematics and its Applications*, 18(1):25–35, 1976. CODEN JMTAA8. ISSN 0020-2932.

Lashiher:1978:CTF

[474] A. M. Ben Lashiher. Converse theorems for final-stability. *Journal of the Institute of Mathematics and its Applications*, 21(??):127–134, 1978. CODEN JMTAA8. ISSN 0020-2932.

Laurie:1977:OPC

[475] D. P. Laurie. Optimal parameter choice in the θ-method for parabolic equations. *Journal of the Institute of Mathematics and its Applications*, 19(1):119–125, 1977. CODEN JMTAA8. ISSN 0020-2932.

Lavenda:1977:NLD

[476] B. H. Lavenda, G. Peluso, and A. di Chiara. Non-linear dissipative and dispersive waves. *Journal of the Institute of Mathematics and its Applications*, 20 (1):117–131, 1977. CODEN JMTAA8. ISSN 0020-2932.

Lavery:1979:PEB

[477] J. E. Lavery. A posteriori error bounds for linear elliptic equations of potential

type. *Journal of the Institute of Mathematics and its Applications*, 23(4):465–472, 1979. CODEN JMTAA8. ISSN 0020-2932.

Laws:1975:UET

[478] N. Laws. The use of energy theorems to obtain upper and lower bounds. *Journal of the Institute of Mathematics and its Applications*, 15(??):109–119, 1975. CODEN JMTAA8. ISSN 0020-2932.

Lee:1971:SSD

[479] C. F. Lee. On the solution of some diffusion equations with concentration-dependent diffusion coefficients. *Journal of the Institute of Mathematics and its Applications*, 8(??):251–259, 1971. CODEN JMTAA8. ISSN 0020-2932.

Lee:1972:SSD

[480] C. F. Lee. On the solution of some diffusion equations with concentration-dependent diffusion coefficients. II. *Journal of the Institute of Mathematics and its Applications*, 10(??):129–133, 1972. CODEN JMTAA8. ISSN 0020-2932.

Leppington:1970:RSS

[481] F. G. Leppington. On the radiation of short surface waves by a finite dock. *Journal of the Institute of Mathematics and its Applications*, 6(??):319–340, 1970. CODEN JMTAA8. ISSN 0020-2932.

Levey:1968:RAL

[482] H. C. Levey and J. J. Mahony. Resonance in almost linear systems. *Journal of the Institute of Mathematics and its Applications*, 4(??):282–294, 1968. CODEN JMTAA8. ISSN 0020-2932.

Levin:1976:GOP

[483] D. Levin. General order Padé-type rational approximants defined from double power series. *Journal of the Institute of Mathematics and its Applications*, 18 (1):1–8, 1976. CODEN JMTAA8. ISSN 0020-2932.

Levin:1980:CCA

[484] D. Levin. Corrected collocation approximations for the harmonic Dirichlet problem. *Journal of the Institute of Mathematics and its Applications*, 26(1):65–75, 1980. CODEN JMTAA8. ISSN 0020-2932.

Levin:1978:BKM

[485] D. Levin, N. Papamichael, and A. Sideridis. The Bergman kernel method for the numerical conformal mapping of simply connected domains. *Journal of the Institute of Mathematics and its Applications*, 22(2):171–187, 1978. CODEN JMTAA8. ISSN 0020-2932.

Lewis:1975:NSF

[486] B. A. Lewis. On the numerical solution of Fredholm integral equations of the first kind. *Journal of the Institute of Mathematics and its Applications*, 16 (2):207–220, 1975. CODEN JMTAA8. ISSN 0020-2932.

Lighthill:1965:GV

[487] M. J. Lighthill. Group velocity. *Journal of the Institute of Mathematics and its Applications*, 1(??):1–28, 1965. CODEN JMTAA8. ISSN 0020-2932.

Lighthill:1968:MC

[488] M. J. Lighthill. Mathematics in control. *Journal of the Institute of Mathematics*

and its Applications, 4(??):1–19, 1968. CODEN JMTAA8. ISSN 0020-2932.

Linz:1974:SAM

[489] P. Linz. A simple approximation method for solving Volterra integro-differential equations of the first kind. *Journal of the Institute of Mathematics and its Applications*, 14(??):211–215, 1974. CODEN JMTAA8. ISSN 0020-2932.

Linz:1977:SCD

[490] P. Linz. Stability and convergence of difference schemes for some functional differential equations. *Journal of the Institute of Mathematics and its Applications*, 19(1):71–76, 1977. CODEN JMTAA8. ISSN 0020-2932.

Littlewood:1976:NEF

[491] R. K. Littlewood and V. Zakian. Numerical evaluation of Fourier integrals. *Journal of the Institute of Mathematics and its Applications*, 18(3):331–339, 1976. CODEN JMTAA8. ISSN 0020-2932.

Long:1977:UDD

[492] M. J. Long and K. W. Morton. The use of divided differences in finite element calculations. *Journal of the Institute of Mathematics and its Applications*, 19(3): 307–323, 1977. CODEN JMTAA8. ISSN 0020-2932.

Longman:1968:NIL

[493] I. M. Longman. On the numerical inversion of the Laplace transform of a discontinuous original. *Journal of the Institute of Mathematics and its Applications*, 4(??):320–328, 1968. CODEN JMTAA8. ISSN 0020-2932.

Longman:1972:CPJ

[494] I. M. Longman. Comments on a paper by J. A. Murphy: "Certain rational function approximations to $(1 + x^2)^{-1/2}$". With a reply by J. A. Murphy. *Journal of the Institute of Mathematics and its Applications*, 9(??):411–412, 1972. CODEN JMTAA8. ISSN 0020-2932.

Longuet-Higgins:1978:SNR

[495] M. S. Longuet-Higgins. Some new relations between Stokes's coefficients in the theory of gravity waves. *Journal of the Institute of Mathematics and its Applications*, 22(3):261–273, 1978. CODEN JMTAA8. ISSN 0020-2932.

Lord:1979:MNV

[496] M. E. Lord. The method of nonlinear variation of constants for difference equations. *Journal of the Institute of Mathematics and its Applications*, 23(3): 285–290, 1979. CODEN JMTAA8. ISSN 0020-2932.

Love:1974:LWA

[497] J. D. Love. Long wavelength acoustic scattering by a torus of arbitrary aspect ratio. *Journal of the Institute of Mathematics and its Applications*, 13(??):321–344, 1974. CODEN JMTAA8. ISSN 0020-2932.

Love:1979:NCT

[498] J. D. Love. A note on the capacitance of two closely separated spheres. *Journal of the Institute of Mathematics and its Applications*, 24(3):255–257, 1979. CODEN JMTAA8. ISSN 0020-2932.

Lyness:1975:MDS

[499] J. N. Lyness and D. Jespersen. Moderate degree symmetric quadrature rules

for the triangle. *Journal of the Institute of Mathematics and its Applications*, 15 (??):19–32, 1975. CODEN JMTAA8. ISSN 0020-2932.

MacDonald:1970:SIB

[500] D. A. MacDonald. Solution of the incompressible boundary layer equations via the Galerkin-Kantorovich technique. *Journal of the Institute of Mathematics and its Applications*, 6(??):115–130, 1970. CODEN JMTAA8. ISSN 0020-2932.

Madsen:1975:AMS

[501] K. Madsen. An algorithm for minimax solution of overdetermined systems of non-linear equations. *Journal of the Institute of Mathematics and its Applications*, 16(3):321–328, 1975. CODEN JMTAA8. ISSN 0020-2932.

Majumdar:1976:VBE

[502] S. R. Majumdar and M. E. O'Neill. Vertical boundary effects on the electrohydrostatic instability of a fluid interface. *Journal of the Institute of Mathematics and its Applications*, 17(3):343–354, 1976. CODEN JMTAA8. ISSN 0020-2932.

Marimont:1979:NNS

[503] R. B. Marimont and M. B. Shapiro. Nearest neighbour searches and the curse of dimensionality. *Journal of the Institute of Mathematics and its Applications*, 24(??):59–70, 1979. CODEN JMTAA8. ISSN 0020-2932.

Maroulas:1978:SNR

[504] J. Maroulas and S. Barnett. Some new results on the qualitative theory of generalized polynomials. *Journal of the Institute of Mathematics and its Applications*, 22(??):53–70, 1978. CODEN JMTAA8. ISSN 0020-2932.

Maroulas:1979:FRQ

[505] J. Maroulas and S. Barnett. Further results on the qualitative theory of generalized polynomials. *Journal of the Institute of Mathematics and its Applications*, 23(1):33–42, 1979. CODEN JMTAA8. ISSN 0020-2932.

Marsh:1976:IMS

[506] T. Marsh and M. Wadsworth. An iterative method for the solution of Fredholm integral equations of the second kind. *Journal of the Institute of Mathematics and its Applications*, 18(1):57–65, 1976. CODEN JMTAA8. ISSN 0020-2932.

Marshall:1970:DPD

[507] E. A. Marshall. The dynamic plane deformation of a rigid perfectly-plastic slab. *Journal of the Institute of Mathematics and its Applications*, 6(??):201–211, 1970. CODEN JMTAA8. ISSN 0020-2932.

Marshall:1973:EBT

[508] J. A. Marshall and A. R. Mitchell. An exact boundary technique for improved accuracy in the finite element method. *Journal of the Institute of Mathematics and its Applications*, 12(??):355–362, 1973. CODEN JMTAA8. ISSN 0020-2932.

Mason:1975:DOR

[509] D. P. Mason. Derivation of orthogonality relations in plasma theory using singular integral equations. *Journal of the Institute of Mathematics and its Applications*, 15(??):257–265, 1975. CODEN JMTAA8. ISSN 0020-2932.

Mauldon:1973:EAT

[510] J. G. Mauldon. The elimination of all but two from a tournament. *Journal of the Institute of Mathematics and its Applications*, 11(??):151–156, 1973. CODEN JMTAA8. ISSN 0020-2932.

Mavrommatis:1978:ESI

[511] E. Mavrommatis. Evaluation of some integrals encountered in calculations in many-fermion systems. *Journal of the Institute of Mathematics and its Applications*, 22(3):255–260, 1978. CODEN JMTAA8. ISSN 0020-2932.

Mayne:1967:RAC

[512] D. Q. Mayne. Recent approaches to the control of stochastic processes. *Journal of the Institute of Mathematics and its Applications*, 3(??):46–59, 1967. CODEN JMTAA8. ISSN 0020-2932.

McAllister:1971:NPS

[513] G. T. McAllister. On the Neumann problem for some linear and non-linear uniformly elliptic difference equations. *Journal of the Institute of Mathematics and its Applications*, 7(??):151–167, 1971. CODEN JMTAA8. ISSN 0020-2932.

McAllister:1972:MBV

[514] G. T. McAllister. Mixed boundary value problems for some linear and non-linear elliptic difference equations. *Journal of the Institute of Mathematics and its Applications*, 9(??):205–217, 1972. CODEN JMTAA8. ISSN 0020-2932.

McCabe:1975:FEP

[515] J. H. McCabe. A formal extension of the Padé table to include two point Padé quotients. *Journal of the Institute of Mathematics and its Applications*, 15 (??):363–372, 1975. CODEN JMTAA8. ISSN 0020-2932.

McCabe:1976:CFW

[516] J. H. McCabe and J. A. Murphy. Continued fractions which correspond to power series expansions at two points. *Journal of the Institute of Mathematics and its Applications*, 17(2):233–247, 1976. CODEN JMTAA8. ISSN 0020-2932.

McClure:1978:EET

[517] J. P. McClure and R. Wong. Explicit error terms for asymptotic expansions of Stieltjes transforms. *Journal of the Institute of Mathematics and its Applications*, 22(2):129–145, 1978. CODEN JMTAA8. ISSN 0020-2932.

McClure:1979:ERA

[518] J. P. McClure and R. Wong. Exact remainders for asymptotic expansions of fractional integrals. *Journal of the Institute of Mathematics and its Applications*, 24(2):139–147, 1979. CODEN JMTAA8. ISSN 0020-2932.

McCormack:1975:VEA

[519] P. D. McCormack and D. Fitzgerald. The visco-elastic arterial flow model and the ultrasound Doppler probe. *Journal of the Institute of Mathematics and its Applications*, 16(3):361–370, 1975. CODEN JMTAA8. ISSN 0020-2932.

McDiarmid:1972:STP

[520] C. J. H. McDiarmid. The solution of a timetabling problem. *Journal of the Institute of Mathematics and its Applications*, 9(??):23–34, 1972. CODEN JMTAA8. ISSN 0020-2932.

McGuire:1972:BTM

[521] G. R. McGuire and J. Ll. Morris. Boundary techniques for the multistep formulation of the optimized Lax–Wendroff method for non-linear hyperbolic systems in two space dimensions. *Journal of the Institute of Mathematics and its Applications*, 10(??):150–165, 1972. CODEN JMTAA8. ISSN 0020-2932.

McGuire:1976:ROA

[522] G. R. McGuire and J. Ll. Morris. Restoring orders of accuracy for multilevel schemes for non-linear hyperbolic systems in many space variables. *Journal of the Institute of Mathematics and its Applications*, 17(1):53–67, 1976. CODEN JMTAA8. ISSN 0020-2932.

McKee:1971:ADM

[523] S. McKee. Alternating direction methods for a system of parabolic equations in two space dimensions with a mixed derivative. *Journal of the Institute of Mathematics and its Applications*, 8(??): 376–385, 1971. CODEN JMTAA8. ISSN 0020-2932.

McKee:1972:ADM

[524] S. McKee. Alternating direction methods for hyperbolic equations with mixed derivatives. *Journal of the Institute of Mathematics and its Applications*, 9(??): 350–356, 1972. CODEN JMTAA8. ISSN 0020-2932.

McKee:1972:GDF

[525] S. McKee. A generalization of the Du Fort-Frankel scheme. *Journal of the Institute of Mathematics and its Applications*, 10(??):42–48, 1972. CODEN JMTAA8. ISSN 0020-2932.

McKee:1973:HAD

[526] S. McKee. High accuracy A.D.I. methods for hyperbolic equations with variable coefficients. *Journal of the Institute of Mathematics and its Applications*, 11 (??):105–109, 1973. CODEN JMTAA8. ISSN 0020-2932.

McKee:1979:AVS

[527] S. McKee. The analysis of a variable step, variable coefficient linear multistep method for solving a singular integro-differential equation arising from the diffusion of discrete particles in a turbulent fluid. *Journal of the Institute of Mathematics and its Applications*, 23(3):373–388, 1979. CODEN JMTAA8. ISSN 0020-2932.

McLeod:1976:NRH

[528] R. McLeod. Node requirements for high-order approximation over curved finite elements. *Journal of the Institute of Mathematics and its Applications*, 17(2): 249–254, 1976. CODEN JMTAA8. ISSN 0020-2932.

McLeod:1978:HOT

[529] R. McLeod. High order transformation methods for curved finite elements. *Journal of the Institute of Mathematics and its Applications*, 21(??):419–428, 1978. CODEN JMTAA8. ISSN 0020-2932.

McLeod:1972:CBF

[530] R. McLeod and A. R. Mitchell. The construction of basis functions for curved elements in the finite element method. *Journal of the Institute of Mathematics and its Applications*, 10(??):382–393, 1972. CODEN JMTAA8. ISSN 0020-2932.

McLeod:1975:UPA

[531] R. J. Y. McLeod and A. R. Mitchell. The use of parabolic arcs in matching curved boundaries in the finite element method. *Journal of the Institute of Mathematics and its Applications*, 16(2):239–246, 1975. CODEN JMTAA8. ISSN 0020-2932.

Mead:1972:PEC

[532] K. O. Mead and L. M. Delves. On the prediction of the expansion coefficients in a variational calculation. *Journal of the Institute of Mathematics and its Applications*, 10(??):166–175, 1972. CODEN JMTAA8. ISSN 0020-2932.

Mead:1973:CRG

[533] K. O. Mead and L. M. Delves. On the convergence rate of generalized Fourier expansions. *Journal of the Institute of Mathematics and its Applications*, 12 (??):247–259, 1973. CODEN JMTAA8. ISSN 0020-2932.

Mees:1972:DFM

[534] A. I. Mees. The describing function matrix. *Journal of the Institute of Mathematics and its Applications*, 10(??):49–67, 1972. CODEN JMTAA8. ISSN 0020-2932.

Mees:1973:LCS

[535] A. I. Mees. Limit cycle stability. *Journal of the Institute of Mathematics and its Applications*, 11(??):281–295, 1973. CODEN JMTAA8. ISSN 0020-2932.

Meyer:1977:AML

[536] G. H. Meyer. An application of the method of lines to multidimensional free boundary problems. *Journal of the Institute of Mathematics and its Applications*, 20(3):317–329, 1977. CODEN JMTAA8. ISSN 0020-2932.

Meyer:1967:ADL

[537] R. E. Meyer. On the approximation of double limits by single limits and the Kaplun extension theorem. *Journal of the Institute of Mathematics and its Applications*, 3(??):245–249, 1967. CODEN JMTAA8. ISSN 0020-2932.

Meyer:1972:MDL

[538] Robert R. Meyer and Philip M. Roth. Modified damped least squares: An algorithm for non-linear estimation. *Journal of the Institute of Mathematics and its Applications*, 9(??):218–233, 1972. CODEN JMTAA8. ISSN 0020-2932.

Mezei:1973:EFA

[539] M. Mezei. The error of a function approximation based on random selected points. *Journal of the Institute of Mathematics and its Applications*, 12(??):97–102, 1973. CODEN JMTAA8. ISSN 0020-2932.

Mezei:1973:PRB

[540] M. Mezei and T. Szondy. On the possibility of replacing the backward transformation in the modified simplex method by a forward transformation. *Journal of the Institute of Mathematics and its Applications*, 11(??):339–342, 1973. CODEN JMTAA8. ISSN 0020-2932.

Micchelli:1979:OES

[541] C. A. Micchelli. Optimal estimation of smooth functions from inaccurate data. *Journal of the Institute of Mathematics and its Applications*, 23(4):473–495, 1979. CODEN JMTAA8. ISSN 0020-2932.

Miller:1978:FEM

[542] J. V. Miller, K. W. Morton, and M. J. Baines. A finite element moving boundary computation with an adaptive mesh. *Journal of the Institute of Mathematics and its Applications*, 22(4):467–477, 1978. CODEN JMTAA8. ISSN 0020-2932.

Miller:1971:LZC

[543] John J. H. Miller. On the location of zeros of certain classes of polynomials with applications to numerical analysis. *Journal of the Institute of Mathematics and its Applications*, 8(??):397–406, 1971. CODEN JMTAA8. ISSN 0020-2932.

Minieka:1973:NAB

[544] E. Minieka and D. R. Shier. A note on an algebra for the k best routes in a network. *Journal of the Institute of Mathematics and its Applications*, 11(??):145–149, 1973. CODEN JMTAA8. ISSN 0020-2932.

Mitchell:1972:VPF

[545] A. R. Mitchell. Variational principles and the finite element method. *Journal of the Institute of Mathematics and its Applications*, 9(??):378–389, 1972. CODEN JMTAA8. ISSN 0020-2932.

Mitchell:1971:FSF

[546] A. R. Mitchell, G. Phillips, and E. Wachspress. Forbidden shapes in the finite element method. *Journal of the Institute of Mathematics and its Applications*, 8 (??):260–269, 1971. CODEN JMTAA8. ISSN 0020-2932.

Mitra:1968:IRP

[547] Debasis Mitra. The irreducible representations of $2p$-pole linear Lagrangian systems. *Journal of the Institute of Mathematics and its Applications*, 4(??):329–338, 1968. CODEN JMTAA8. ISSN 0020-2932.

Mocarsky:1971:CSS

[548] William L. Mocarsky. Convergence of step-by-step methods for non-linear integro-differential equations. *Journal of the Institute of Mathematics and its Applications*, 8(??):235–239, 1971. CODEN JMTAA8. ISSN 0020-2932.

Moore:1976:CRA

[549] J. B. Moore. A consistently rapid algorithm for solving polynomial equations. *Journal of the Institute of Mathematics and its Applications*, 17(1):99–110, 1976. CODEN JMTAA8. ISSN 0020-2932.

Moore:1978:FEM

[550] P. Moore. Finite element multistep multiderivative schemes for parabolic equations. *Journal of the Institute of Mathematics and its Applications*, 21(??):331–344, 1978. CODEN JMTAA8. ISSN 0020-2932.

Morley:1965:VMS

[551] L. S. D. Morley. A variational method of solution for problems in plane elasticity. *Journal of the Institute of Mathematics and its Applications*, 1(??):76–100, 1965. CODEN JMTAA8. ISSN 0020-2932.

Morris:1976:PAP

[552] H. C. Morris. A perturbative approach to periodic solutions of delay-differential equations. *Journal of the Institute of Mathematics and its Applications*, 18(1): 15–24, 1976. CODEN JMTAA8. ISSN 0020-2932.

Morris:1973:MLO

[553] J. Ll. Morris and A. R. Gourlay. Modified locally one dimensional methods for parabolic partial differential equations in two space variables. *Journal of the Institute of Mathematics and its Applications*, 12(??):349–353, 1973. CODEN JMTAA8. ISSN 0020-2932.

Moss:1980:ASD

[554] R. L. Moss, T. G. Rogers, and A. J. M. Spencer. Axially symmetric deformations of fibre-reinforced cylinders. *Journal of the Institute of Mathematics and its Applications*, 26(1):21–38, 1980. CODEN JMTAA8. ISSN 0020-2932.

Mostaghel:1977:SRH

[555] N. Mostaghel. Stability regions of Hill's equation. *Journal of the Institute of Mathematics and its Applications*, 19(3): 253–259, 1977. CODEN JMTAA8. ISSN 0020-2932.

Munt:1975:ARC

[556] R. M. Munt. Acoustic radiation from a circular cylinder in a subsonic stream. *Journal of the Institute of Mathematics and its Applications*, 16(1):1–10, 1975. CODEN JMTAA8. ISSN 0020-2932.

Murphy:1971:CRF

[557] J. A. Murphy. Certain rational function approximations to $(1+x^2)^{-1/2}$. *Journal of the Institute of Mathematics and its Applications*, 7(??):138–150, 1971. CODEN JMTAA8. ISSN 0020-2932.

Murphy:1975:SPC

[558] J. A. Murphy and M. R. O'Donohoe. Some properties of continued fractions with applications in Markov processes. *Journal of the Institute of Mathematics and its Applications*, 16(1):57–71, 1975. CODEN JMTAA8. ISSN 0020-2932.

Murray:1972:NGL

[559] J. C. Murray. A note on a general linear initial-boundary value problem. *Journal of the Institute of Mathematics and its Applications*, 10(??):305–311, 1972. CODEN JMTAA8. ISSN 0020-2932.

Murray:1973:NSV

[560] J. C. Murray. A note on some variational principles for a class of linear initial-boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 12(??):119–123, 1973. CODEN JMTAA8. ISSN 0020-2932.

Murray:1975:AVP

[561] J. C. Murray. Addendum to: "A variational principle associated with surface waves" (J. Inst. Math. Appl. **15** (1975), 127–134). *Journal of the Institute of Mathematics and its Applications*, 16(3): 387–388, 1975. CODEN JMTAA8. ISSN 0020-2932. See [562].

Murray:1975:VPA

[562] J. C. Murray. A variational principle associated with surface waves. *Journal of the Institute of Mathematics and its Applications*, 15(??):127–134, 1975. CODEN JMTAA8. ISSN 0020-2932. See addendum [561].

Murray:1978:CCS

[563] J. C. Murray. Curvilinear coordinate systems suitable for the numerical solution of boundary-value problems. *Journal of the Institute of Mathematics and its Applications*, 22(4):411–421, 1978. CODEN JMTAA8. ISSN 0020-2932.

Murray:1980:CCS

[564] J. C. Murray. Curvilinear coordinate systems associated with a class of boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 25(4):397–411, 1980. CODEN JMTAA8. ISSN 0020-2932.

Musa:1979:WAD

[565] F. A. Musa and L. M. Delves. On weakly asymptotically diagonal systems. *Journal of the Institute of Mathematics and its Applications*, 23(4):389–403, 1979. CODEN JMTAA8. ISSN 0020-2932.

Namias:1980:FOF

[566] Victor Namias. The fractional order Fourier transform and its application to quantum mechanics. *Journal of the Institute of Mathematics and its Applications*, 25(3):241–265, 1980. CODEN JMTAA8. ISSN 0020-2932.

Namias:1980:FHT

[567] Victor Namias. Fractionalization of Hankel transforms. *Journal of the Institute of Mathematics and its Applications*, 26(2):187–197, 1980. CODEN JMTAA8. ISSN 0020-2932.

Nash:1977:MNL

[568] J. C. Nash. Minimizing a non-linear sum of squares function on a small computer. *Journal of the Institute of Mathematics and its Applications*, 19(2):231–237, 1977. CODEN JMTAA8. ISSN 0020-2932.

Nelson:1979:PIS

[569] P. R. Nelson. A prediction interval search scheme for the move-to-the-front replacement algorithm. *Journal of the Institute of Mathematics and its Applications*, 24(2):231–236, 1979. CODEN JMTAA8. ISSN 0020-2932.

Newland:1965:ESR

[570] D. E. Newland. Energy sharing in the random vibration of non-linearly coupled modes. *Journal of the Institute of Mathematics and its Applications*, 1(??):199–207, 1965. CODEN JMTAA8. ISSN 0020-2932.

Newlands:1977:STE

[571] A. G. Newlands. On the sensitivity of transient elastic stresses in a solid to the form of surface loading. *Journal of the Institute of Mathematics and its Applications*, 19(??):195–203, 1977. CODEN JMTAA8. ISSN 0020-2932.

Nicholson:1971:EDP

[572] T. A. J. Nicholson. Extension of dynamic programming to multi-plant renewal. *Journal of the Institute of Mathematics and its Applications*, 8(??):225–234, 1971. CODEN JMTAA8. ISSN 0020-2932.

Nicol:1978:BFR

[573] D. A. C. Nicol. Bending and flexure of a reinforced tube. *Journal of the Institute of Mathematics and its Applications*, 21 (??):117–126, 1978. CODEN JMTAA8. ISSN 0020-2932.

Nieminen:1974:TBD

[574] J. Nieminen. Two bounds for the domination number of a graph. *Journal of the Institute of Mathematics and its Applications*, 14(??):183–187, 1974. CODEN JMTAA8. ISSN 0020-2932.

Niki:1978:NPT

[575] Hiroshi Niki, Hideo Sawami, and Tetsuya Ondoh. A note on a practical

technique for solving elliptic equations. *Journal of the Institute of Mathematics and its Applications*, 22(3):353–359, 1978. CODEN JMTAA8. ISSN 0020-2932.

Nilsson:1980:PSCb

[576] Börje Nilsson and Olle Brander. The propagation of sound in cylindrical ducts with mean flow and bulk-reacting lining. I. Modes in an infinite duct. *Journal of the Institute of Mathematics and its Applications*, 26(3):269–298, 1980. CODEN JMTAA8. ISSN 0020-2932.

Nilsson:1980:PSCa

[577] Börje Nilsson and Olle Brander. The propagation of sound in cylindrical ducts with mean flow and bulk-reacting lining. II. Bifurcated ducts. *Journal of the Institute of Mathematics and its Applications*, 26(4):381–410, 1980. CODEN JMTAA8. ISSN 0020-2932.

Noble:1980:EET

[578] B. Noble and S. Beighton. Error estimates for three methods of evaluating Cauchy principal value integrals. *Journal of the Institute of Mathematics and its Applications*, 26(4):431–446, 1980. CODEN JMTAA8. ISSN 0020-2932.

Noble:1972:DEP

[579] B. Noble and M. J. Sewell. On dual extremum principles in applied mathematics. *Journal of the Institute of Mathematics and its Applications*, 9(??):123–193, 1972. CODEN JMTAA8. ISSN 0020-2932.

Noble:1969:VMI

[580] Ben Noble and M. Hussain. A variational method for inclusion and indentation problems. *Journal of the Institute of Mathematics and its Applications*, 5(??):194–205, 1969. CODEN JMTAA8. ISSN 0020-2932.

Nonweiler:1977:IAE

[581] T. Nonweiler. Integrals and areas expressed as bilinear forms of discrete defining data. *Journal of the Institute of Mathematics and its Applications*, 19(2):159–168, 1977. CODEN JMTAA8. ISSN 0020-2932.

Nuttall:1978:GIC

[582] J. Nuttall and C. J. Wherry. Gaussian integration for complex weight functions. *Journal of the Institute of Mathematics and its Applications*, 21(??):165–170, 1978. CODEN JMTAA8. ISSN 0020-2932.

Nye:1977:UMF

[583] V. A. Nye. Unsteady magnetohydrodynamic flows. *Journal of the Institute of Mathematics and its Applications*, 20(??):229–243, 1977. CODEN JMTAA8. ISSN 0020-2932.

OCarroll:1973:IRC

[584] M. J. O'Carroll. Inconsistencies and S.O.R. convergence for the discrete Neumann problem. *Journal of the Institute of Mathematics and its Applications*, 11(??):343–350, 1973. CODEN JMTAA8. ISSN 0020-2932.

OCarroll:1974:UCVa

[585] M. J. O'Carroll. Uniform convergence of variational methods for elliptic problems in N dimensions. *Journal of the Institute of Mathematics and its Applications*, 13(??):1–5, 1974. CODEN JMTAA8. ISSN 0020-2932.

OCarroll:1974:UCVb

[586] M. J. O'Carroll. Uniform convergence of variational methods for plane subsonic flow. *Journal of the Institute of Mathematics and its Applications*, 13(??):7–12, 1974. CODEN JMTAA8. ISSN 0020-2932.

Ohiwa:1978:NAN

[587] H. Ohiwa. A new algorithm for nonlinear simultaneous equations. *Journal of the Institute of Mathematics and its Applications*, 21(??):189–196, 1978. CODEN JMTAA8. ISSN 0020-2932.

Oliver:1968:IIS

[588] J. Oliver. Inherent instability in systems of first order linear differential equations. *Journal of the Institute of Mathematics and its Applications*, 4(??):399–409, 1968. CODEN JMTAA8. ISSN 0020-2932.

Oliver:1971:PSC

[589] J. Oliver. A practical strategy for the Clenshaw–Curtis quadrature method. *Journal of the Institute of Mathematics and its Applications*, 8(??):53–56, 1971. CODEN JMTAA8. ISSN 0020-2932.

Oliver:1975:SME

[590] J. Oliver. Stable methods for evaluating the points $\cos(i\pi/n)$. *Journal of the Institute of Mathematics and its Applications*, 16(2):247–257, 1975. CODEN JMTAA8. ISSN 0020-2932.

Oliver:1977:EAM

[591] J. Oliver. An error analysis of the modified Clenshaw method for evaluating Chebyshev and Fourier series. *Journal of the Institute of Mathematics and its Applications*, 20(3):379–391, 1977. CODEN JMTAA8. ISSN 0020-2932.

OLoghlen:1973:EPA

[592] J. W. OLoghlen. An eigenvalue problem arising in the theory of shock waves. *Journal of the Institute of Mathematics and its Applications*, ??(??):??, 1973. CODEN JMTAA8. ISSN 0020-2932.

OMalley:1970:NLS

[593] Robert E. O'Malley, Jr. A non-linear singular perturbation problem arising in the study of chemical flow reactors. *Journal of the Institute of Mathematics and its Applications*, 6(??):12–20, 1970. CODEN JMTAA8. ISSN 0020-2932.

Omodei:1977:SRR

[594] B. J. Omodei. Stability of the Rayleigh–Ritz–Galerkin procedure for linear elliptic boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 20(2):245–255, 1977. CODEN JMTAA8. ISSN 0020-2932.

Orley:1973:NHA

[595] D. G. Orley and S. McKee. A note on hopscotch as applied to the bending beam equation. *Journal of the Institute of Mathematics and its Applications*, 11 (??):335–338, 1973. CODEN JMTAA8. ISSN 0020-2932.

Osborne:1974:AEF

[596] M. R. Osborne. Asymptotic error formulae for numerical quadrature. *Journal of the Institute of Mathematics and its Applications*, 13(??):219–227, 1974. CODEN JMTAA8. ISSN 0020-2932.

Pack:1974:CFV

[597] D. C. Pack and J. M. Sharp. Collisionless flow in vacuum traps. *Journal of the Institute of Mathematics and its Applications*, 13(??):23–38, 1974. CODEN JMTAA8. ISSN 0020-2932.

Packham:1972:NTW

[598] B. A. Packham and W. E. Williams. A note on the transmission of water waves through small apertures. *Journal of the Institute of Mathematics and its Applications*, 10(??):176–184, 1972. CODEN JMTAA8. ISSN 0020-2932.

Paige:1972:CVL

[599] C. C. Paige. Computational variants of the Lanczos method for the eigenproblem. *Journal of the Institute of Mathematics and its Applications*, 10(3):373–381, December 1972. CODEN JMTAA8. ISSN 0020-2932.

Paige:1976:EAL

[600] C. C. Paige. Error analysis of the Lanczos algorithm for tridiagonalizing a symmetric matrix. *Journal of the Institute of Mathematics and its Applications*, 18 (3):341–349, 1976. CODEN JMTAA8. ISSN 0020-2932.

Panek:1980:TDC

[601] Carl Panek and J. J. Kalker. Three-dimensional contact of a rigid roller traversing a viscoelastic half space. *Journal of the Institute of Mathematics and its Applications*, 26(3):299–313, 1980. CODEN JMTAA8. ISSN 0020-2932.

Panwalkar:1979:OFS

[602] S. S. Panwalkar and A. W. Khan. An ordered flow shop sequencing problem with TWK type due dates and total tardiness criterion. *Journal of the Institute of Mathematics and its Applications*, 23 (3):367–372, 1979. CODEN JMTAA8. ISSN 0020-2932.

Papaconstantinou:1976:ISG

[603] C. Papaconstantinou. Iterative solution of the generalized eigenvalue problem. *Journal of the Institute of Mathematics and its Applications*, 17(2):255–260, 1976. CODEN JMTAA8. ISSN 0020-2932.

Papamichael:1979:UCT

[604] N. Papamichael and A. Sideridis. The use of conformal transformations for the numerical solution of elliptic boundary value problems with boundary singularities. *Journal of the Institute of Mathematics and its Applications*, 23(??):73–88, 1979. CODEN JMTAA8. ISSN 0020-2932.

Papamichael:1975:DCO

[605] N. Papamichael and G. D. Smith. The determination of consistent orderings for the SOR iterative method. *Journal of the Institute of Mathematics and its Applications*, 15(??):239–248, 1975. CODEN JMTAA8. ISSN 0020-2932.

Papamichael:1973:CST

[606] N. Papamichael and J. R. Whiteman. A cubic-spline technique for the one dimensional heat conduction equation. *Journal of the Institute of Mathematics and its Applications*, 11(??):111–113, 1973. CODEN JMTAA8. ISSN 0020-2932.

Parker:1971:ATO

[607] D. F. Parker. An asymptotic theory for oscillatory non-linear signals. *Journal of the Institute of Mathematics and its Applications*, 7(??):92–110, 1971. CODEN JMTAA8. ISSN 0020-2932.

Pathak:1978:SLP

[608] R. S. Pathak. Summability of the Laguerre polynomial expansion of generalized functions. *Journal of the Institute of Mathematics and its Applications*, 21 (??):171–180, 1978. CODEN JMTAA8. ISSN 0020-2932.

Peraiah:1973:NSR

[609] A. Peraiah and I. P. Grant. Numerical solution of the radiative transfer equation in spherical shells. *Journal of the Institute of Mathematics and its Applications*, 12(??):75–90, 1973. CODEN JMTAA8. ISSN 0020-2932.

Pereyra:1973:EST

[610] V. Pereyra and G. Scherer. Eigenvalues of symmetric tridiagonal matrices: a fast, accurate and reliable algorithm. *Journal of the Institute of Mathematics and its Applications*, 12(??):209–222, 1973. CODEN JMTAA8. ISSN 0020-2932.

Peters:1971:PPA

[611] G. Peters and J. H. Wilkinson. Practical problems arising in the solution of polynomial equations. *Journal of the Institute of Mathematics and its Applications*, 8(??):16–35, 1971. CODEN JMTAA8. ISSN 0020-2932.

Pickering:1977:SCS

[612] W. M. Pickering. Some comments on the solution of Poisson's equation using Bickley's formula and fast Fourier transforms. *Journal of the Institute of Mathematics and its Applications*, 19(3):337–338, 1977. CODEN JMTAA8. ISSN 0020-2932.

Piessens:1972:NNM

[613] R. Piessens. A new numerical method for the inversion of the Laplace transform. *Journal of the Institute of Mathematics and its Applications*, 10(??):185–192, 1972. CODEN JMTAA8. ISSN 0020-2932.

Pitkaranta:1979:DPS

[614] J. Pitkäranta. On the differential properties of solutions to Fredholm equations with weakly singular kernels. *Journal of the Institute of Mathematics and its Applications*, 24(2):109–119, 1979. CODEN JMTAA8. ISSN 0020-2932.

Pitts:1976:SDH

[615] E. Pitts. The stability of a drop hanging from a tube. *Journal of the Institute of Mathematics and its Applications*, 17(3):387–397, 1976. CODEN JMTAA8. ISSN 0020-2932.

Polak:1974:IAS

[616] S. J. Polak. An increased accuracy scheme for diffusion equations in cylindrical coordinates. *Journal of the Institute of Mathematics and its Applications*, 14(??):197–201, 1974. CODEN JMTAA8. ISSN 0020-2932.

Pollock:1980:ITQ

[617] J. Pollock and A. J. Pritchard. The infinite time quadratic cost control problem for distributed systems with unbounded control action. *Journal of the Institute of Mathematics and its Applications*, 25 (3):287–309, 1980. CODEN JMTAA8. ISSN 0020-2932.

Pollock:1980:TPD

[618] J. Pollock and A. J. Pritchard. The tracking problem for distributed systems

with unbounded control action. *Journal of the Institute of Mathematics and its Applications*, 25(4):387–396, 1980. CODEN JMTAA8. ISSN 0020-2932.

Pomentale:1974:HIM

[619] T. Pomentale. Homotopy iterative methods for polynomial equations. *Journal of the Institute of Mathematics and its Applications*, 13(??):201–213, 1974. CODEN JMTAA8. ISSN 0020-2932.

Pop:1975:UBL

[620] Ioan Pop and V. M. Soundalgekar. On unsteady boundary layers in a rotating flow. *Journal of the Institute of Mathematics and its Applications*, 15(??):343–349, 1975. CODEN JMTAA8. ISSN 0020-2932.

Powell:1974:DSS

[621] J. H. Powell. Deficiencies in safety schemes which rely on stochastically failing protective equipment. *Journal of the Institute of Mathematics and its Applications*, 14(??):41–56, 1974. CODEN JMTAA8. ISSN 0020-2932.

Powell:1975:AME

[622] J. H. Powell. Assessment of the maintenance of the effectiveness of safety schemes by inspection and age-replacement of protective devices. *Journal of the Institute of Mathematics and its Applications*, 16(1):81–92, 1975. CODEN JMTAA8. ISSN 0020-2932.

Powell:1971:CVM

[623] M. J. D. Powell. On the convergence of the variable metric algorithm. *Journal of the Institute of Mathematics and its Applications*, 7(1):21–36, February 1971. CODEN JMTAA8. ISSN 0020-2932.

Powell:1972:QTPa

[624] M. J. D. Powell. Quadratic termination properties of minimization algorithms. I. Statement and discussion of results. *Journal of the Institute of Mathematics and its Applications*, 10(3):333–342, December 1972. CODEN JMTAA8. ISSN 0020-2932. URL `https://academic.oup.com/imamat/article-abstract/10/3/333/824259`.

Powell:1972:QTPb

[625] M. J. D. Powell. Quadratic termination properties of minimization algorithms. II. Proofs of theorems. *Journal of the Institute of Mathematics and its Applications*, 10(3):343–357, December 1972. CODEN JMTAA8. ISSN 0020-2932. URL `https://academic.oup.com/imamat/article-abstract/10/3/343/824267`.

Powell:1966:WUS

[626] M. J. D. Powell and J. Swann. Weighted uniform sampling — a Monte Carlo technique for reducing variance. *Journal of the Institute of Mathematics and its Applications*, 2(3):228–236, September 1966. CODEN JMTAA8. ISSN 0020-2932.

Prasad:1977:TNL

[627] Phoolan Prasad and Renuka Ravindran. A theory of non-linear waves in multi-dimensions: With special reference to surface water waves. *Journal of the Institute of Mathematics and its Applications*, 20(1):9–20, 1977. CODEN JMTAA8. ISSN 0020-2932.

Price:1979:WSP

[628] W. L. Price. A weighted simplex procedure for the solution of simultaneous

non-linear equations. *Journal of the Institute of Mathematics and its Applications*, 24(??):1–8, 1979. CODEN JMTAA8. ISSN 0020-2932.

Prince:1978:RKP

[629] P. J. Prince and K. Wright. Runge–Kutta processes with exact principal error equations. *Journal of the Institute of Mathematics and its Applications*, 21 (??):363–373, 1978. CODEN JMTAA8. ISSN 0020-2932.

Pritchard:1971:SSS

[630] A. J. Pritchard. Stability and stabilization of second-order systems. *Journal of the Institute of Mathematics and its Applications*, 7(??):348–360, 1971. CODEN JMTAA8. ISSN 0020-2932.

Pritchard:1974:LBC

[631] A. J. Pritchard and K. T. Parker. A lower bound for the cost functional for control problems in Hilbert space. *Journal of the Institute of Mathematics and its Applications*, 13(??):97–106, 1974. CODEN JMTAA8. ISSN 0020-2932.

Purushothaman:1977:NUB

[632] R. Purushothaman. A note on unsteady boundary layers in a rotating flow. *Journal of the Institute of Mathematics and its Applications*, 20(??):257–260, 1977. CODEN JMTAA8. ISSN 0020-2932.

Quinney:1979:CTW

[633] D. A. Quinney. On computing travelling wave solutions in a model for the Belousov–Zhabotinskii reaction. *Journal of the Institute of Mathematics and its Applications*, 23(2):193–201, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Racicot:1971:FFP

[634] R. L. Racicot. Fitting a filtered Poisson process. *Journal of the Institute of Mathematics and its Applications*, 7(??): 260–272, 1971. CODEN JMTAA8. ISSN 0020-2932.

Raggett:1974:FIF

[635] G. F. Raggett and P. D. Wilson. A fully implicit finite difference approximation to the one-dimensional wave equation using a cubic spline technique. *Journal of the Institute of Mathematics and its Applications*, 14(??):75–77, 1974. CODEN JMTAA8. ISSN 0020-2932.

Ralston:1973:SAD

[636] Anthony Ralston. Some aspects of degeneracy in rational approximations. *Journal of the Institute of Mathematics and its Applications*, 11(??):157–170, 1973. CODEN JMTAA8. ISSN 0020-2932.

Rao:1976:HON

[637] C. Prabhakara Rao and Satteluri R. K. Iyengar. High order numerical differentiation type formulas with an off-step point for stiff ordinary differential equations. *Journal of the Institute of Mathematics and its Applications*, 17(3):281–293, 1976. CODEN JMTAA8. ISSN 0020-2932.

Rao:1980:OMS

[638] Ganti Prasada Rao and T. Srinivasan. An optimal method of solving differential equations characterizing the dynamics of a current collection system for an electric locomotive. *Journal of the Institute of Mathematics and its Applications*, 25(4):329–342, 1980. CODEN JMTAA8. ISSN 0020-2932.

Rasmussen:1973:CRR

[639] H. Rasmussen. On the convergence of the Rayleigh–Ritz method in plane subsonic flow. *Journal of the Institute of Mathematics and its Applications*, 11(??):1–8, 1973. CODEN JMTAA8. ISSN 0020-2932.

Rasmussen:1976:CFC

[640] H. Rasmussen. Compressible flow calculations by variational method using natural boundary conditions. *Journal of the Institute of Mathematics and its Applications*, 17(??):111–118, 1976. CODEN JMTAA8. ISSN 0020-2932.

Rasmussen:1974:AVM

[641] H. Rasmussen and N. Heys. Application of a variational method in plane compressible flow calculation. *Journal of the Institute of Mathematics and its Applications*, 13(??):47–61, 1974. CODEN JMTAA8. ISSN 0020-2932.

Rawlins:1977:DDW

[642] A. D. Rawlins. Diffraction by a dielectric wedge. *Journal of the Institute of Mathematics and its Applications*, 19(3):261–279, 1977. CODEN JMTAA8. ISSN 0020-2932.

Reid:1971:NSG

[643] J. K. Reid. A note on the stability of Gaussian elimination. *Journal of the Institute of Mathematics and its Applications*, 8(??):374–375, 1971. CODEN JMTAA8. ISSN 0020-2932.

Reid:1972:CCF

[644] J. K. Reid. On the construction and convergence of a finite-element solution of Laplace's equation. *Journal of the Institute of Mathematics and its Applications*, 9(??):1–13, 1972. CODEN JMTAA8. ISSN 0020-2932.

Riess:1976:GAE

[645] R. D. Riess. A Gaussian approach to equally spaced quadratures. *Journal of the Institute of Mathematics and its Applications*, 17(2):261–265, 1976. CODEN JMTAA8. ISSN 0020-2932.

Riess:1974:DQF

[646] R. D. Riess and L. W. Johnson. On the determination of quadrature formulae of highest degree of precision for approximating Fourier coefficients. *Journal of the Institute of Mathematics and its Applications*, 13(??):345–351, 1974. CODEN JMTAA8. ISSN 0020-2932.

Riess:1978:CFR

[647] R. D. Riess and L. W. Johnson. Closed-form representations for errors of cubic spline approximations on equally spaced knots. *Journal of the Institute of Mathematics and its Applications*, 21(??):345–351, 1978. CODEN JMTAA8. ISSN 0020-2932.

Rive:1975:RKM

[648] L. Dalle Rive and F. Pasciutti. Runge–Kutta methods with global error estimates. *Journal of the Institute of Mathematics and its Applications*, 16(3):381–386, 1975. CODEN JMTAA8. ISSN 0020-2932.

Robe:1975:NME

[649] T. R. Robe and S. E. Jones. A numerical method for establishing Liapunov stability of linear second order non-autonomous dynamical systems. *Journal of the Institute of Mathematics and its Applications*, 16(1):109–120, 1975. CODEN JMTAA8. ISSN 0020-2932.

Robertson:1976:NIS

[650] H. H. Robertson. Numerical integration of systems of stiff ordinary differential equations with special structure. *Journal of the Institute of Mathematics and its Applications*, 18(2):249–263, 1976. CODEN JMTAA8. ISSN 0020-2932.

Robertson:1977:AEE

[651] H. H. Robertson. The accuracy of error estimates for systems of linear algebraic equations. *Journal of the Institute of Mathematics and its Applications*, 20 (4):409–414, 1977. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Robertson:1979:CCM

[652] H. H. Robertson. Copolymer composition in n-monomer systems. *Journal of the Institute of Mathematics and its Applications*, 23(??):405–411, 1979. CODEN JMTAA8. ISSN 0020-2932.

Robertson:1975:SPA

[653] H. H. Robertson and J. Williams. Some properties of algorithms for stiff differential equations. *Journal of the Institute of Mathematics and its Applications*, 16(1): 23–34, 1975. CODEN JMTAA8. ISSN 0020-2932.

Robinson:1976:SCW

[654] I. S. Robinson. Some common wave phenomena applied to an M.H.D. anisotropic surface wave system. *Journal of the Institute of Mathematics and its Applications*, 18(??):159–175, 1976. CODEN JMTAA8. ISSN 0020-2932.

Rodrigues:1976:PCQ

[655] A. J. Rodrigues. Properties of constants for a quadrature formula to evaluate Bromwich's integral. *Journal of the Institute of Mathematics and its Applications*, 18(1):49–56, 1976. CODEN JMTAA8. ISSN 0020-2932.

Rodrigues:1977:EAC

[656] A. J. Rodrigues. An error analysis and convergence of a quadrature formula to invert Laplace transforms. *Journal of the Institute of Mathematics and its Applications*, 20(1):21–32, 1977. CODEN JMTAA8. ISSN 0020-2932.

Rodrigues:1978:AQL

[657] A. J. Rodrigues. On the accuracy of quadrature Laplace transform inversion and the solution of state space equations. *Journal of the Institute of Mathematics and its Applications*, 22(3):283–296, 1978. CODEN JMTAA8. ISSN 0020-2932.

Rodrigues:1980:CPK

[658] A. J. Rodrigues. Convergence of Padé kernel approximants to the delayed Dirac function. *Journal of the Institute of Mathematics and its Applications*, 25(1):17–27, 1980. CODEN JMTAA8. ISSN 0020-2932.

Rogers:1977:FBP

[659] J. C. W. Rogers. A free boundary problem as diffusion with non-linear absorption. *Journal of the Institute of Mathematics and its Applications*, 20(2):261–268, 1977. CODEN JMTAA8. ISSN 0020-2932.

Roscoe:1975:NMD

[660] D. F. Roscoe. New methods for the derivation of stable difference representations for differential equations. *Journal of the Institute of Mathematics and its Applications*, 16(3):291–301, 1975. CODEN JMTAA8. ISSN 0020-2932.

Rosinger:1980:SCN

[661] E. E. Rosinger. Stability and convergence for nonlinear difference schemes are equivalent. *Journal of the Institute of Mathematics and its Applications*, 26 (2):143–149, 1980. CODEN JMTAA8. ISSN 0020-2932.

Rowe:1972:GRM

[662] A. Rowe. The generalized resultant matrix. *Journal of the Institute of Mathematics and its Applications*, 9(??):390–396, 1972. CODEN JMTAA8. ISSN 0020-2932.

Rowlands:1974:SSN

[663] G. Rowlands. On the stability of solutions of the non-linear Schrödinger equation. *Journal of the Institute of Mathematics and its Applications*, 13(??):367–377, 1974. CODEN JMTAA8. ISSN 0020-2932.

Rubenfeld:1967:DAD

[664] L. Rubenfeld and J. Bazer. Diffraction by an anisotropic disk, perfectly conducting along equiangular spirals. *Journal of the Institute of Mathematics and its Applications*, 3(??):216–244, 1967. CODEN JMTAA8. ISSN 0020-2932. See errata and addenda [665].

Rubenfeld:1969:EAD

[665] L. Rubenfeld and J. Bazer. Errata and addenda: "Diffraction by an anisotropic disk, perfectly conducting along equiangular spirals". *Journal of the Institute of Mathematics and its Applications*, 5 (1):??, 1969. CODEN JMTAA8. ISSN 0020-2932. Loose insert. See [664].

Rubinstein:1979:SPC

[666] L. Rubinstein. The Stefan problem: comments on its present state. *Journal of the Institute of Mathematics and its Applications*, 24(3):259–277, 1979. CODEN JMTAA8. ISSN 0020-2932.

Sack:1972:VSE

[667] R. A. Sack. Variational solutions for eigenvalues of single and coupled Lamé equations. *Journal of the Institute of Mathematics and its Applications*, 10 (??):279–288, 1972. CODEN JMTAA8. ISSN 0020-2932.

Sack:1978:CSQ

[668] R. A. Sack. Comments on some quadrature formulas by F. Stenger. *Journal of the Institute of Mathematics and its Applications*, 21(??):359–361, 1978. CODEN JMTAA8. ISSN 0020-2932. See [710, 711].

Salamon:1979:LLH

[669] N. J. Salamon and G. G. Walter. Limits of Lipschitz-Hankel integrals. *Journal of the Institute of Mathematics and its Applications*, 24(3):237–254, 1979. CODEN JMTAA8. ISSN 0020-2932.

Salane:1980:UDS

[670] D. E. Salane and R. P. Tewarson. A unified derivation of symmetric quasi-Newton update formulas. *Journal of the Institute of Mathematics and its Applications*, 25(1):29–36, 1980. CODEN JMTAA8. ISSN 0020-2932.

Savage:1968:MDL

[671] M. D. Savage. A method for determining linear solutions in magnetohydrodynamics. *Journal of the Institute of Mathematics and its Applications*, 4(??):20–32,

1968. CODEN JMTAA8. ISSN 0020-2932.

Schachter:1980:GRT

[672] B. Schachter. Generation of random textures. *Journal of the Institute of Mathematics and its Applications*, 25(??):343–347, 1980. CODEN JMTAA8. ISSN 0020-2932.

Schagen:1979:ITD

[673] I. P. Schagen. Interpolation in two dimensions—a new technique. *Journal of the Institute of Mathematics and its Applications*, 23(1):53–59, 1979. CODEN JMTAA8. ISSN 0020-2932.

Schagen:1980:SIF

[674] I. P. Schagen. Stochastic interpolating functions—applications in optimization. *Journal of the Institute of Mathematics and its Applications*, 26(1):93–101, 1980. CODEN JMTAA8. ISSN 0020-2932.

Schinas:1974:SCS

[675] J. Schinas. Stability and conditional stability of time-dependent difference equations in Banach spaces. *Journal of the Institute of Mathematics and its Applications*, 14(??):335–346, 1974. CODEN JMTAA8. ISSN 0020-2932.

Schultz:1975:TTC

[676] D. H. Schultz. Two test cases for the numerical solution of harmonic mixed boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 15(??):1–8, 1975. CODEN JMTAA8. ISSN 0020-2932.

Scorer:1967:LIC

[677] R. S. Scorer. Local instability in curved flow. *Journal of the Institute of Mathematics and its Applications*, 3(??):250–265, 1967. CODEN JMTAA8. ISSN 0020-2932.

Scott:1980:EPP

[678] J. F. Scott. An existence proof for a problem in singular parabolic partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 26(3):221–234, 1980. CODEN JMTAA8. ISSN 0020-2932.

Searl:1971:ESP

[679] J. W. Searl. Expansions for singular perturbations. *Journal of the Institute of Mathematics and its Applications*, 8(??):131–138, 1971. CODEN JMTAA8. ISSN 0020-2932.

Serbin:1973:OCH

[680] Hyman Serbin. The operational calculus of Heaviside. *Journal of the Institute of Mathematics and its Applications*, 11 (??):131–143, 1973. CODEN JMTAA8. ISSN 0020-2932.

Shafai:1973:ECB

[681] L. Shafai. Expansion of cylindrical Bessel functions in terms of trigonometric functions. *Journal of the Institute of Mathematics and its Applications*, 11 (??):227–230, 1973. CODEN JMTAA8. ISSN 0020-2932.

Shail:1979:SPP

[682] R. Shail. Some potential problems for slender tori. *Journal of the Institute of Mathematics and its Applications*, 24(3):303–325, 1979. CODEN JMTAA8. ISSN 0020-2932.

Shampine:1979:EPF

[683] L. F. Shampine. Efficiency of phase function methods for Sturm–Liouville eigenvalues. *Journal of the Institute of Math-*

ematics and its Applications, 23(4):413–420, 1979. CODEN JMTAA8. ISSN 0020-2932.

Shercliff:1970:NEC

[684] J. A. Shercliff. A note on the envelope construction for group velocity in dispersive, anisotropic wave systems. *Journal of the Institute of Mathematics and its Applications*, 6(??):91–95, 1970. CODEN JMTAA8. ISSN 0020-2932.

Shercliff:1970:FPB

[685] J. A. Shercliff. On flow past bodies in aligned magnetic fields. *Journal of the Institute of Mathematics and its Applications*, 6(??):96–101, 1970. CODEN JMTAA8. ISSN 0020-2932.

Shercliff:1975:NV

[686] J. A. Shercliff. A note on vorticity. *Journal of the Institute of Mathematics and its Applications*, 16(2):259–262, 1975. CODEN JMTAA8. ISSN 0020-2932.

Shinbrot:1980:WWP

[687] M. Shinbrot. Water waves over periodic bottoms in three dimensions. *Journal of the Institute of Mathematics and its Applications*, 25(4):367–385, 1980. CODEN JMTAA8. ISSN 0020-2932.

Shukla:1977:OEP

[688] J. B. Shukla and M. Isa. Optimum externally pressurized magnetohydrodynamic bearing. *Journal of the Institute of Mathematics and its Applications*, 19(??):49–58, 1977. CODEN JMTAA8. ISSN 0020-2932.

Sidi:1979:SPG

[689] A. Sidi. Some properties of a generalization of the Richardson extrapolation process. *Journal of the Institute of Mathematics and its Applications*, 24(3):327–346, 1979. CODEN JMTAA8. ISSN 0020-2932.

Sidi:1980:EMO

[690] A. Sidi. Extrapolation methods for oscillatory infinite integrals. *Journal of the Institute of Mathematics and its Applications*, 26(1):1–20, 1980. CODEN JMTAA8. ISSN 0020-2932.

Sleeman:1967:LFS

[691] B. D. Sleeman. The low-frequency scalar Dirichlet scattering by a general ellipsoid. *Journal of the Institute of Mathematics and its Applications*, 3(??):291–312, 1967. CODEN JMTAA8. ISSN 0020-2932.

Sleeman:1968:PCF

[692] B. D. Sleeman. On parabolic cylinder functions. *Journal of the Institute of Mathematics and its Applications*, 4(??):106–112, 1968. CODEN JMTAA8. ISSN 0020-2932.

Sleeman:1969:DSW

[693] B. D. Sleeman. On diffraction at short wavelengths by a prolate spheroid. *Journal of the Institute of Mathematics and its Applications*, 5(4):432–442, 1969. CODEN JMTAA8. ISSN 0020-2932.

Sloan:1976:RTE

[694] D. M. Sloan and G. Wilks. Riccati transformations for eigenvalues of systems of linear ordinary differential equations with separated boundary conditions. *Journal of the Institute of Mathematics and its Applications*, 18(1):117–127, 1976. CODEN JMTAA8. ISSN 0020-2932.

Smarzewski:1978:NSC

[695] R. Smarzewski and H. Malinowski. Numerical solutions of a class of Abel integral equations. *Journal of the Institute of Mathematics and its Applications*, 22 (2):159–170, 1978. CODEN JMTAA8. ISSN 0020-2932.

Smith:1974:BLF

[696] F. T. Smith. Boundary layer flow near a discontinuity in wall conditions. *Journal of the Institute of Mathematics and its Applications*, 13(??):127–145, 1974. CODEN JMTAA8. ISSN 0020-2932.

Smith:1978:FTS

[697] F. T. Smith. Flow through symmetrically constricted tubes. *Journal of the Institute of Mathematics and its Applications*, 21(??):145–156, 1978. CODEN JMTAA8. ISSN 0020-2932.

Smith:1976:NDE

[698] P. Smith. A note on dual extremum principles in magnetohydrodynamic pipe flow. *Journal of the Institute of Mathematics and its Applications*, 18 (1):129–133, 1976. CODEN JMTAA8. ISSN 0020-2932.

Smith:1978:AOD

[699] Peter Smith. Approximate operators and dual extremum principles for linear problems. *Journal of the Institute of Mathematics and its Applications*, 22 (4):457–465, 1978. CODEN JMTAA8. ISSN 0020-2932.

Smith:1969:RSW

[700] S. H. Smith. The reflection of surface waves by two parallel vertical barriers. *Journal of the Institute of Mathematics and its Applications*, 5(??):217–229, 1969. CODEN JMTAA8. ISSN 0020-2932.

Sozou:1971:BLG

[701] C. Sozou. Boundary layer growth on a spinning sphere. *Journal of the Institute of Mathematics and its Applications*, 7 (??):251–259, 1971. CODEN JMTAA8. ISSN 0020-2932.

Spanier:1979:NFE

[702] J. Spanier. A new family of estimators for random walk problems. *Journal of the Institute of Mathematics and its Applications*, 23(??):1–31, 1979. CODEN JMTAA8. ISSN 0020-2932.

Spedicato:1978:NDS

[703] E. Spedicato. A note on the determination of the scaling parameters in a class of quasi-Newton methods for unconstrained minimization. *Journal of the Institute of Mathematics and its Applications*, 21(??):285–291, 1978. CODEN JMTAA8. ISSN 0020-2932.

Spencer:1970:STF

[704] A. J. M. Spencer. The static theory of finite elasticity. *Journal of the Institute of Mathematics and its Applications*, 6 (??):164–200, 1970. CODEN JMTAA8. ISSN 0020-2932.

Stassinopoulos:1980:CDC

[705] G. I. Stassinopoulos. Continuous dependence of constrained solutions of linear differential inclusions. *Journal of the Institute of Mathematics and its Applications*, 25(2):161–175, 1980. CODEN JMTAA8. ISSN 0020-2932.

Stassinopoulos:1978:CCS

[706] G. I. Stassinopoulos and R. B. Vinter. Conditions for convergence of solutions

in the computation of optimal controls. *Journal of the Institute of Mathematics and its Applications*, 22(1):1–14, 1978. CODEN JMTAA8. ISSN 0020-2932.

Steinberg:1972:NSB

[707] J. Steinberg. Numerical solution of a boundary value problem arising in the deflection of beams and shells. *Journal of the Institute of Mathematics and its Applications*, 10(??):10–14, 1972. CODEN JMTAA8. ISSN 0020-2932.

Steinberg:1977:NSS

[708] J. Steinberg. Numerical solution of a singular two-point boundary value problem. *Journal of the Institute of Mathematics and its Applications*, 20(1):45–52, 1977. CODEN JMTAA8. ISSN 0020-2932.

Steinberg:1980:NTS

[709] J. Steinberg. Numerical treatment of singularities in elliptic problems. *Journal of the Institute of Mathematics and its Applications*, 26(4):349–368, 1980. CODEN JMTAA8. ISSN 0020-2932.

Stenger:1973:IFB

[710] Frank Stenger. Integration formulae based on the trapezoidal formula. *Journal of the Institute of Mathematics and its Applications*, 12(1):103–114, 1973. CODEN JMTAA8. ISSN 0020-2932. See remarks [711, 668].

Stenger:1977:RIF

[711] Frank Stenger. Remarks on "Integration formulae based on the trapezoidal formula" (J. Inst. Math. Appl. **12** (1973), 103–114). *Journal of the Institute of Mathematics and its Applications*, 19(2):145–147, 1977. CODEN JMTAA8. ISSN 0020-2932. See [710, 668].

Stewart:1979:ERE

[712] G. W. Stewart. The effects of rounding error on an algorithm for downdating a Cholesky factorization. *Journal of the Institute of Mathematics and its Applications*, 23(2):203–213, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Stewartson:1965:MBL

[713] K. Stewartson. On magnetic boundary layers. *Journal of the Institute of Mathematics and its Applications*, 1(??):29–41, 1965. CODEN JMTAA8. ISSN 0020-2932.

Stirzaker:1975:PMS

[714] D. R. Stirzaker. A perturbation method for the stochastic recurrent epidemic. *Journal of the Institute of Mathematics and its Applications*, 15(??):135–160, 1975. CODEN JMTAA8. ISSN 0020-2932.

Stirzaker:1976:ME

[715] D. R. Stirzaker. On models for an epidemic. *Journal of the Institute of Mathematics and its Applications*, 18(2):135–148, 1976. CODEN JMTAA8. ISSN 0020-2932.

Stow:1972:SIT

[716] P. Stow. The solution of isentropic transonic flow. *Journal of the Institute of Mathematics and its Applications*, 9(??):35–46, 1972. CODEN JMTAA8. ISSN 0020-2932.

Strieder:1971:VBP

[717] W. Strieder and R. Aris. Variational bounds for problems in diffusion and reaction. *Journal of the Institute of Mathematics and its Applications*, 8(??):328–334, 1971. CODEN JMTAA8. ISSN 0020-2932.

Summers:1978:FMS

[718] D. Summers. Fluid models of the solar wind. *Journal of the Institute of Mathematics and its Applications*, 22(??):71–87, 1978. CODEN JMTAA8. ISSN 0020-2932.

Sweet:1971:OPS

[719] R. A. Sweet. Oscillation properties of a semidiscrete approximation to the beam equation with a second order term. *Journal of the Institute of Mathematics and its Applications*, 7(??):119–125, 1971. CODEN JMTAA8. ISSN 0020-2932.

Sweet:1969:PSD

[720] Roland A. Sweet. Properties of a semidiscrete approximation to the beam equation. *Journal of the Institute of Mathematics and its Applications*, 5(??): 329–339, 1969. CODEN JMTAA8. ISSN 0020-2932.

Talbot:1979:ANI

[721] A. Talbot. The accurate numerical inversion of Laplace transforms. *Journal of the Institute of Mathematics and its Applications*, 23(1):97–120, 1979. CODEN JMTAA8. ISSN 0020-2932.

Taylor:1971:NAD

[722] R. S. Taylor. A new approach to the delta wing problem. *Journal of the Institute of Mathematics and its Applications*, 7(??):337–347, 1971. CODEN JMTAA8. ISSN 0020-2932.

Taylor:1971:LEU

[723] R. S. Taylor and F. M. Arscott. Lamé's equation and its use in elliptic cone problems. *Journal of the Institute of Mathematics and its Applications*, 7(??):331–336, 1971. CODEN JMTAA8. ISSN 0020-2932.

Telega:1979:VFN

[724] J. J. Telega. On variational formulations for nonlinear, nonpotential operators. *Journal of the Institute of Mathematics and its Applications*, 24(2):175–195, 1979. CODEN JMTAA8. ISSN 0020-2932.

Temme:1978:UAE

[725] N. M. Temme. Uniform asymptotic expansions of confluent hypergeometric functions. *Journal of the Institute of Mathematics and its Applications*, 22(2): 215–223, 1978. CODEN JMTAA8. ISSN 0020-2932.

Temperley:1976:SRC

[726] D. J. Temperley and L. Todd. Some remarks on a class of plane, linear boundary value problems. *Journal of the Institute of Mathematics and its Applications*, 18(3):309–324, 1976. CODEN JMTAA8. ISSN 0020-2932.

Teymur:1978:WPD

[727] M. Teymur and E. Suhubi. Wave propagation in dissipative or dispersive nonlinear media. *Journal of the Institute of Mathematics and its Applications*, 21 (??):25–40, 1978. CODEN JMTAA8. ISSN 0020-2932.

Thatcher:1975:SSL

[728] R. W. Thatcher. Singularities in the solution of Laplace's equation in two dimensions. *Journal of the Institute of Mathematics and its Applications*, 16(3): 303–319, 1975. CODEN JMTAA8. ISSN 0020-2932.

Thatcher:1978:CEN

[729] R. W. Thatcher. Controlling the error in the numerical solution of elliptic equa-

tions. *Journal of the Institute of Mathematics and its Applications*, 22(4):443–455, 1978. CODEN JMTAA8. ISSN 0020-2932.

Theocaris:1977:NIM

[730] P. S. Theocaris and A. C. Chrysakis. Numerical inversion of the Mellin transform. *Journal of the Institute of Mathematics and its Applications*, 20(1):73–83, 1977. CODEN JMTAA8. ISSN 0020-2932.

Thomas:1974:SBV

[731] J. N. Thomas and A. H. England. The stress boundary value problem for an ideal fibre-reinforced rectangular plate with a hole. *Journal of the Institute of Mathematics and its Applications*, 14 (??):347–374, 1974. CODEN JMTAA8. ISSN 0020-2932.

Thomee:1973:PDA

[732] Vidar Thomée. Polygonal domain approximation in Dirichlet's problem. *Journal of the Institute of Mathematics and its Applications*, 11(??):33–44, 1973. CODEN JMTAA8. ISSN 0020-2932.

Titterington:1973:MEA

[733] D. M. Titterington. A method of extremum adaptation. *Journal of the Institute of Mathematics and its Applications*, 11(??):297–315, 1973. CODEN JMTAA8. ISSN 0020-2932.

Tolstoy:1977:RLD

[734] I. Tolstoy. Remarks on the linearization of differential equations. *Journal of the Institute of Mathematics and its Applications*, 20(1):53–60, 1977. CODEN JMTAA8. ISSN 0020-2932.

Tomlin:1972:PSS

[735] J. A. Tomlin. Pivoting for size and sparsity in linear programming inversion routes. *Journal of the Institute of Mathematics and its Applications*, 10 (??):289–295, 1972. CODEN JMTAA8. ISSN 0020-2932.

Troth:1976:MRA

[736] M. R. Troth. Materials reinforced by almost inextensible fibres. *Journal of the Institute of Mathematics and its Applications*, 18(??):265–278, 1976. CODEN JMTAA8. ISSN 0020-2932.

Turland:1980:SPM

[737] B. D. Turland and R. S. Peckover. The stability of planar melting fronts in two-phase thermal Stefan problems. *Journal of the Institute of Mathematics and its Applications*, 25(1):1–15, 1980. CODEN JMTAA8. ISSN 0020-2932.

Turner:1978:CPC

[738] J. R. Turner. A convergence proof for constrained finite element solutions. *Journal of the Institute of Mathematics and its Applications*, 22(??):121–127, 1978. CODEN JMTAA8. ISSN 0020-2932.

Turner:1979:FUP

[739] J. R. Turner. The frictional unloading problem on a linear elastic half-space. *Journal of the Institute of Mathematics and its Applications*, 24(4):439–469, 1979. CODEN JMTAA8. ISSN 0020-2932.

Turner:1980:SPC

[740] J. R. Turner and D. A. C. Nicol. The Signorini problem for a Cosserat plate. *Journal of the Institute of Mathematics and its Applications*, 25(2):133–145,

1980. CODEN JMTAA8. ISSN 0020-2932.

Twizell:1976:SAC

[741] E. H. Twizell. Some approximations of the characteristics of second order hyperbolic partial differential equations. *Journal of the Institute of Mathematics and its Applications*, 17(2):209–218, 1976. CODEN JMTAA8. ISSN 0020-2932.

Underhill:1973:CPP

[742] C. Underhill and A. Wragg. Convergence properties of Padé approximants to $\exp(z)$ and their derivatives. *Journal of the Institute of Mathematics and its Applications*, 11(??):361–367, 1973. CODEN JMTAA8. ISSN 0020-2932.

Urwin:1967:PSW

[743] Kathleen M. Urwin. Perturbation solutions of the Whittaker-Hill equation. *Journal of the Institute of Mathematics and its Applications*, 3(??):169–180, 1967. CODEN JMTAA8. ISSN 0020-2932.

Usmani:1977:FDA

[744] R. A. Usmani. An $O(h^6)$ finite difference analogue for the solution of some differential equations occurring in plate deflection theory. *Journal of the Institute of Mathematics and its Applications*, 20 (3):331–333, 1977. CODEN JMTAA8. ISSN 0020-2932.

Usmani:1971:FDA

[745] Riaz A. Usmani. An $O(h^6)$ finite difference analogue for the numerical solution of a two point boundary value problem. *Journal of the Institute of Mathematics and its Applications*, 8(??):335–343, 1971. CODEN JMTAA8. ISSN 0020-2932.

Vajda:1974:TOC

[746] S. Vajda. Tests of optimality in constrained optimization. *Journal of the Institute of Mathematics and its Applications*, 13(??):187–200, 1974. CODEN JMTAA8. ISSN 0020-2932.

Valvi:1977:EPI

[747] F. Valvi. Explicit presentation of the inverses of some types of matrices. *Journal of the Institute of Mathematics and its Applications*, 19(1):107–117, 1977. CODEN JMTAA8. ISSN 0020-2932.

vandenBerg:1976:RPC

[748] P. M. van den Berg. Radiation from a point charge moving through a circular aperture in a screen. *Journal of the Institute of Mathematics and its Applications*, 17(1):119–133, 1976. CODEN JMTAA8. ISSN 0020-2932.

Vardulakis:1978:GRT

[749] A. I. G. Vardulakis and P. N. R. Stoyle. Generalized resultant theorem. *Journal of the Institute of Mathematics and its Applications*, 22(3):331–335, 1978. CODEN JMTAA8. ISSN 0020-2932.

Varley:1965:NLT

[750] E. Varley and E. Cumberbatch. Nonlinear theory of wave-front propagation. *Journal of the Institute of Mathematics and its Applications*, 1(??):101–112, 1965. CODEN JMTAA8. ISSN 0020-2932.

Varley:1966:NLH

[751] E. Varley and E. Cumberbatch. Nonlinear, high frequency sound waves.

Journal of the Institute of Mathematics and its Applications, 2(??):133–143, 1966. CODEN JMTAA8. ISSN 0020-2932.

Verhulst:1976:MAE

[752] F. Verhulst. Matched asymptotic expansions in the two-body problem with quick loss of mass. *Journal of the Institute of Mathematics and its Applications*, 18(1):87–98, 1976. CODEN JMTAA8. ISSN 0020-2932.

Vinter:1977:SSD

[753] R. B. Vinter. Stabilizability and semigroups with discrete generators. *Journal of the Institute of Mathematics and its Applications*, 20(3):371–378, 1977. CODEN JMTAA8. ISSN 0020-2932.

Vinter:1978:ESL

[754] R. B. Vinter. On the evolution of the state of linear differential delay equations in M^2: properties of the generator. *Journal of the Institute of Mathematics and its Applications*, 21(??):13–23, 1978. CODEN JMTAA8. ISSN 0020-2932.

Visnak:1978:CNM

[755] K. Visnak and M. Kubicek. A class of numerical methods of high order for stiff problems in ordinary differential equations. *Journal of the Institute of Mathematics and its Applications*, 21(??):251–264, 1978. CODEN JMTAA8. ISSN 0020-2932.

Wachspress:1971:RBF

[756] Eugene L. Wachspress. A rational basis for function approximation. *Journal of the Institute of Mathematics and its Applications*, 8(??):57–68, 1971. CODEN JMTAA8. ISSN 0020-2932.

Wachspress:1973:RBF

[757] Eugene L. Wachspress. A rational basis for function approximation. II: Curved sides. *Journal of the Institute of Mathematics and its Applications*, 11(??):83–104, 1973. CODEN JMTAA8. ISSN 0020-2932.

Waechter:1970:ISW

[758] R. T. Waechter. The initial structure of wing-body interaction in supersonic flow. *Journal of the Institute of Mathematics and its Applications*, 6(??):310–318, 1970. CODEN JMTAA8. ISSN 0020-2932.

Wait:1977:SIF

[759] R. Wait. Singular isoparametric finite elements. *Journal of the Institute of Mathematics and its Applications*, 20(1):133–141, 1977. CODEN JMTAA8. ISSN 0020-2932.

Wait:1971:STD

[760] R. Wait and A. R. Mitchell. The solution of time dependent problems by Galerkin methods. *Journal of the Institute of Mathematics and its Applications*, 7(??):241–250, 1971. CODEN JMTAA8. ISSN 0020-2932.

Waldron:1968:IBF

[761] R. A. Waldron. The integration of Bessel functions. *Journal of the Institute of Mathematics and its Applications*, 4(??):315–319, 1968. CODEN JMTAA8. ISSN 0020-2932.

Walpole:1974:NEP

[762] L. J. Walpole. New extremum principles for linear problems. *Journal of the Institute of Mathematics and its Applications*, 14(??):113–118, 1974. CODEN JMTAA8. ISSN 0020-2932.

Walsh:1966:FNC

[763] G. R. Walsh. The fourth necessary condition in an optimal rocket trajectory. *Journal of the Institute of Mathematics and its Applications*, 2(??):237–247, 1966. CODEN JMTAA8. ISSN 0020-2932.

Walter:1976:SEM

[764] G. Walter and D. Schultz. Some eigenfunction methods for computing a numerical Fourier transform. *Journal of the Institute of Mathematics and its Applications*, 18(3):279–293, 1976. CODEN JMTAA8. ISSN 0020-2932.

Wang:1976:NCE

[765] J. Y. Wang. On the numerical computation of eigenvalues and eigenfunctions of compact integral operators using spline functions. *Journal of the Institute of Mathematics and its Applications*, 18(2): 177–188, 1976. CODEN JMTAA8. ISSN 0020-2932.

Wang:1973:RSM

[766] Yen-Chu Wang. Review of some mathematical models of non-linear domain dynamics in bulk- effect semiconductors. *Journal of the Institute of Mathematics and its Applications*, 11(??):251–280, 1973. CODEN JMTAA8. ISSN 0020-2932.

Warren:1970:MFB

[767] F. W. G. Warren. A method for finding bounds for complex eigenvalues of second order systems. *Journal of the Institute of Mathematics and its Applications*, 6(??):21–26, 1970. CODEN JMTAA8. ISSN 0020-2932.

Watkins:1977:SFF

[768] D. S. Watkins and P. Lancaster. Some families of finite elements. *Journal of the Institute of Mathematics and its Applications*, 19(4):385–397, 1977. CODEN JMTAA8. ISSN 0020-2932.

Watson:1973:OSA

[769] G. A. Watson. One-sided approximation and operator equations. *Journal of the Institute of Mathematics and its Applications*, 12(??):197–208, 1973. CODEN JMTAA8. ISSN 0020-2932.

Watson:1976:MCB

[770] G. A. Watson. A method for calculating best non-linear Chebyshev approximations. *Journal of the Institute of Mathematics and its Applications*, 18(3):351–360, 1976. CODEN JMTAA8. ISSN 0020-2932.

Watson:1979:MSO

[771] G. A. Watson. The minimax solution of an overdetermined system of non-linear equations. *Journal of the Institute of Mathematics and its Applications*, 23(2): 167–180, March 1979. CODEN JMTAA8. ISSN 0020-2932.

Watson:1965:ESC

[772] J. Watson. On the existence of solutions for a class of rotating disc flows and the convergence of a successive approximation scheme. *Journal of the Institute of Mathematics and its Applications*, 1(??): 348–371, 1965. CODEN JMTAA8. ISSN 0020-2932.

Watson:1971:TMD

[773] S. R. Watson. Towards the minimum drag on a body of given volume in slow viscous flow. *Journal of the Institute of*

Mathematics and its Applications, 7(??): 367–376, 1971. CODEN JMTAA8. ISSN 0020-2932.

Weare:1979:DDF

[774] T. J. Weare. Damping in "un-damped" finite difference representations. *Journal of the Institute of Mathematics and its Applications*, 23(??):86–96, 1979. CODEN JMTAA8. ISSN 0020-2932.

Westbrook:1974:VPA

[775] D. R. Westbrook. A variational principle with applications in finite elements. *Journal of the Institute of Mathematics and its Applications*, 14(??):79–82, 1974. CODEN JMTAA8. ISSN 0020-2932.

Westreich:1980:NSE

[776] D. Westreich. Numerical solution of the eigenvalue problem for discontinuous linear ordinary differential equations. *Journal of the Institute of Mathematics and its Applications*, 25(2):147–160, 1980. CODEN JMTAA8. ISSN 0020-2932.

Westreich:1980:NSV

[777] David Westreich and Baruch Cahlon. Numerical solutions of Volterra integral equations with continuous or discontinuous terms. *Journal of the Institute of Mathematics and its Applications*, 26(2): 175–186, 1980. CODEN JMTAA8. ISSN 0020-2932.

White:1977:USD

[778] P. S. White. On the ultimate stress-deviator in elastic-perfectly plastic solids. *Journal of the Institute of Mathematics and its Applications*, 19(1):97–105, 1977. CODEN JMTAA8. ISSN 0020-2932.

Whiten:1979:MLC

[779] W. J. Whiten. Multiple linear curve fitting. *Journal of the Institute of Mathematics and its Applications*, 23(1):61–71, 1979. CODEN JMTAA8. ISSN 0020-2932.

Whittle:1970:RCS

[780] P. Whittle and P. A. Gait. Reduction of a class of stochastic control problems. *Journal of the Institute of Mathematics and its Applications*, 6(??):131–140, 1970. CODEN JMTAA8. ISSN 0020-2932.

Wilks:1975:RPM

[781] G. Wilks. On Rayleigh's problem in magnetohydrodynamics. *Journal of the Institute of Mathematics and its Applications*, 15(??):73–84, 1975. CODEN JMTAA8. ISSN 0020-2932.

Wilks:1976:IIR

[782] G. Wilks and D. M. Sloan. Invariant imbedding, Riccati transformations and eigenvalue problems. *Journal of the Institute of Mathematics and its Applications*, 18(1):99–116, 1976. CODEN JMTAA8. ISSN 0020-2932.

Williams:1966:RDD

[783] J. E. F. Williams. Radiation from a dipole distribution in inhomogeneous convective motion. *Journal of the Institute of Mathematics and its Applications*, 2(??):223–227, 1966. CODEN JMTAA8. ISSN 0020-2932.

Williams:1980:ISI

[784] M. H. Williams. The inversion of singular integral equations by expansion in Jacobi polynomials. *Journal of the Institute of Mathematics and its Applica-*

tions, 25(4):413–426, 1980. CODEN JMTAA8. ISSN 0020-2932.

Williams:1965:IEF

[785] W. E. Williams. Integral equation formulation of Oseen flow problems. *Journal of the Institute of Mathematics and its Applications*, 1(??):339–347, 1965. CODEN JMTAA8. ISSN 0020-2932.

Williams:1966:EDA

[786] W. E. Williams. Electromagnetic diffraction in an anisotropic medium. *Journal of the Institute of Mathematics and its Applications*, 2(??):186–196, 1966. CODEN JMTAA8. ISSN 0020-2932.

Williams:1978:NSI

[787] W. E. Williams. Note on a singular integral equation. *Journal of the Institute of Mathematics and its Applications*, 22 (2):211–214, 1978. CODEN JMTAA8. ISSN 0020-2932.

Willis:1971:ISI

[788] J. R. Willis. Interfacial stresses induced by arbitrary loading of dissimilar elastic half-spaces joined over a circular region. *Journal of the Institute of Mathematics and its Applications*, 7(??):179–197, 1971. CODEN JMTAA8. ISSN 0020-2932.

Wilson:1976:CPS

[789] D. A. Wilson and J. E. Rubio. A controllability problem for a system governed by the heat equation. *Journal of the Institute of Mathematics and its Applications*, 17(1):43–51, 1976. CODEN JMTAA8. ISSN 0020-2932.

Wilson:1973:NMA

[790] G. A. Wilson and A. Wragg. Numerical methods for approximating continuous probability density functions, over $[0, \infty)$, using moments. *Journal of the Institute of Mathematics and its Applications*, 12(??):165–173, 1973. CODEN JMTAA8. ISSN 0020-2932.

Wilson:1972:SRT

[791] J. C. Wilson. Stability of Richtmyer type difference schemes in any finite number of space variables and their comparison with multistep Strang schemes. *Journal of the Institute of Mathematics and its Applications*, 10(??):238–257, 1972. CODEN JMTAA8. ISSN 0020-2932.

Wind:1977:RCS

[792] H. Wind. The rounded cubic spline. *Journal of the Institute of Mathematics and its Applications*, 19(4):441–445, 1977. CODEN JMTAA8. ISSN 0020-2932.

Winfield:1973:FMI

[793] D. Winfield. Function minimization by interpolation in a data table. *Journal of the Institute of Mathematics and its Applications*, 12(??):339–347, 1973. CODEN JMTAA8. ISSN 0020-2932.

Wolfe:1975:QNM

[794] M. A. Wolfe. A quasi-Newton method with memory for unconstrained function minimization. *Journal of the Institute of Mathematics and its Applications*, 15 (??):85–94, 1975. CODEN JMTAA8. ISSN 0020-2932.

Wolfe:1976:SML

[795] M. A. Wolfe. Some methods for least squares estimation. *Journal of the Institute of Mathematics and its Applications*, 18(2):219–236, 1976. CODEN JMTAA8. ISSN 0020-2932.

Wong:1967:GAS

[796] James S. W. Wong. On the global asymptotic stability of $(p(t)x')' + q(t)x^{2n-1} = 0$. *Journal of the Institute of Mathematics and its Applications*, 3 (??):403–405, 1967. CODEN JMTAA8. ISSN 0020-2932.

Wood:1974:EED

[797] A. D. Wood. Eigenfunction expansions by the delta function and contour integral method. *Journal of the Institute of Mathematics and its Applications*, 14 (??):57–67, 1974. CODEN JMTAA8. ISSN 0020-2932.

Wood:1973:GES

[798] D. H. Wood. Generating examples of shock propagation by three principles. *Journal of the Institute of Mathematics and its Applications*, 11(??):9–14, 1973. CODEN JMTAA8. ISSN 0020-2932.

Wragg:1973:CEM

[799] A. Wragg and C. Davies. Computation of the exponential of a matrix I: Theoretical considerations. *Journal of the Institute of Mathematics and its Applications*, 11(??):369–375, 1973. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Wragg:1975:CEM

[800] A. Wragg and C. Davies. Computation of the exponential of a matrix II: Practical considerations. *Journal of the Institute of Mathematics and its Applications*, 15(??):273–278, 1975. CODEN JMTAA8. ISSN 0020-2932. Cited in [**?**].

Yolles:1975:LSS

[801] M. I. Yolles. Least squares successive relaxation. *Journal of the Institute of Mathematics and its Applications*, 16(3):329–343, 1975. CODEN JMTAA8. ISSN 0020-2932.

Young:1979:BAA

[802] A. Young and E. A. Kiountouzis. Best approximation in an asymmetrically weighted L_1 measure. *Journal of the Institute of Mathematics and its Applications*, 24(4):379–394, 1979. CODEN JMTAA8. ISSN 0020-2932.

Young:1971:SDT

[803] Jonathan D. Young. Smoothing data with tolerances by use of linear programming. *Journal of the Institute of Mathematics and its Applications*, 8(??):69–79, 1971. CODEN JMTAA8. ISSN 0020-2932.

Zakian:1975:AAN

[804] V. Zakian. Application of J_{MN} approximants to numerical initial-value problems in linear differential-algebraic systems. *Journal of the Institute of Mathematics and its Applications*, 15(??):267–272, 1975. CODEN JMTAA8. ISSN 0020-2932.

Zakrajsek:1976:GEP

[805] E. Zakrajšek. On the generalized eigenvalue problem. *Journal of the Institute of Mathematics and its Applications*, 18 (2):155–157, 1976. CODEN JMTAA8. ISSN 0020-2932.

Zauderer:1971:MHM

[806] Erich Zauderer. On a modification of Hadamard's method for obtaining fundamental solutions for hyperbolic and parabolic equations. *Journal of the Institute of Mathematics and its Applications*, 8(??):8–15, 1971. CODEN JMTAA8. ISSN 0020-2932.