

# A Complete Bibliography of Publications in the *Journal of the Society for Industrial and Applied Mathematics*

Nelson H. F. Beebe  
 University of Utah  
 Department of Mathematics, 110 LCB  
 155 S 1400 E RM 233  
 Salt Lake City, UT 84112-0090  
 USA

Tel: +1 801 581 5254

FAX: +1 801 581 4148

E-mail: [beebe@math.utah.edu](mailto:beebe@math.utah.edu), [beebe@acm.org](mailto:beebe@acm.org), [beebe@computer.org](mailto:beebe@computer.org) (Internet)

WWW URL: <http://www.math.utah.edu/~beebe/>

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**Title word cross-reference**      **288-293** [282, 270].

**4** [556].

**5** [373].

\* $ab^x + c$  [196].  $ab^x + c$  [245].  $a \prod x - r_i x + s_i$  [325].  $Ax = \lambda Bx$  [222, 270].  $\Delta u = u^2$  [142].

**6** [132].

$\exp[-(sD)^{1/2}]$  [405].  $g$  [146].  $H$  [492].  $k$  [188].  $kz^2 K'_n(kz) K'_n(z) - n^2 K_n(kz) K_n(z)$  [443].  $L^p$  [387].  $M$  [388].  $n$

**79** [91].

[161, 322, 545, 96, 394, 187, 294].  $p^m$  [217].

**8** [238, 239].

$\partial^2 u \partial x^2 + \partial^2 u \partial y^2 = \partial u \partial t$  [27].  $T$  [550].  $\tau$

[39].  $x'' + cx' + g(x) = Ef(t)$  [151].

**9** [282, 225, 270, 296].

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**-Frequency** [545]. **-Matrix** [388]. **-Method**

[39]. **-Person** [161]. **-Theorem** [492].

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## References

**Clippinger:1953:ADCa**

- [1] R. F. Clippinger, B. Dimsdale, and J. H. Levin. Automatic digital computers in industrial research. I. *Journal of the Society for Industrial and Applied Mathematics*, 1(1):1–15, September 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hoffman:1953:CES**

- [2] A. Hoffman, M. Mannos, D. Sokolowsky, and N. Wiegmann. Computational expe-

rience in solving linear programs. *Journal of the Society for Industrial and Applied Mathematics*, 1(1):17–33, September 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Zadeh:1953:TF**

- [3] L. A. Zadeh. Theory of filtering. *Journal of the Society for Industrial and Applied Mathematics*, 1(1):35–51, September 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Payne:1953:ASP**

- [4] L. E. Payne. On axially symmetric punch, crack and torsion problems. *Journal of the Society for Industrial and Applied Mathematics*, 1(1):53–71, September 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fite:1953:MRL**

- [5] Wade L. Fite. Maximization of return from limited resources. *Journal of the Society for Industrial and Applied Mathematics*, 1(2):73–90, December 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Clippinger:1953:ADCb**

- [6] R. F. Clippinger, B. Dimsdale, and J. H. Levin. Automatic digital computers in industrial research, II. *Journal of the Society for Industrial and Applied Mathematics*, 1(2):91–110, December 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Juncosa:1953:OCS**

- [7] M. L. Juncosa and D. M. Young. On the order of convergence of solutions of a difference equation to a solution of the dif-

fusion equation. *Journal of the Society for Industrial and Applied Mathematics*, 1(2):111–135, December 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Woodbury:1953:LCG**

- [8] Max A. Woodbury. Linear-convex games. *Journal of the Society for Industrial and Applied Mathematics*, 1(2):137–142, December 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**KampedeFeriet:1954:ISTa**

- [9] J. Kampe de Feriet and S. I. Pai. Introduction to the statistical theory of turbulence. I. *Journal of the Society for Industrial and Applied Mathematics*, 2(1):1–9, March 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Goldberg:1954:PMB**

- [10] Samuel Goldberg. Probability models in biology and engineering. *Journal of the Society for Industrial and Applied Mathematics*, 2(1):10–19, March 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Abramowitz:1954:PEI**

- [11] Milton Abramowitz. On the practical evaluation of integrals. *Journal of the Society for Industrial and Applied Mathematics*, 2(1):20–35, March 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Clippinger:1954:ADCa**

- [12] R. F. Clippinger, B. Dimsdale, and J. H. Levin. Automatic digital computers in industrial research. III. *Journal of the*

*Society for Industrial and Applied Mathematics*, 2(1):36–56, March 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Birkhoff:1954:CPD**

- [13] Garrett Birkhoff. Classification of partial differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 2(1):57–67, March 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gorn:1954:AAC**

- [14] Saul Gorn. The automatic analysis and control of computing errors. *Journal of the Society for Industrial and Applied Mathematics*, 2(2):69–81, June 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bellman:1954:TDP**

- [15] R. Bellman, I. Glicksberg, and O. Gross. The theory of dynamic programming as applied to a smoothing problem. *Journal of the Society for Industrial and Applied Mathematics*, 2(2):82–88, June 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kodis:1954:IVM**

- [16] Ralph D. Kodis. An introduction to variational methods in electromagnetic scattering. *Journal of the Society for Industrial and Applied Mathematics*, 2(2):89–112, June 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Clippinger:1954:ADCb**

- [17] R. F. Clippinger, B. Dimsdale, and J. H. Levin. Automatic digital computers in industrial research. IV. *Journal of the*

*Society for Industrial and Applied Mathematics*, 2(2):113–131, June 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**O'Brien:1954:SSQ**

- [18] George G. O'Brien. The solution of some queueing problems. *Journal of the Society for Industrial and Applied Mathematics*, 2(3):133–142, September 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**KampedeFeriet:1954:ISTb**

- [19] J. Kampe de Feriet and S. I. Pai. Introduction to the statistical theory of turbulence. II. *Journal of the Society for Industrial and Applied Mathematics*, 2(3):143–174, September 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bellman:1954:SCP**

- [20] Richard Bellman and Oliver Gross. Some combinatorial problems arising in the theory of multi-stage processes. *Journal of the Society for Industrial and Applied Mathematics*, 2(3):175–183, September 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Clippinger:1954:ADCc**

- [21] R. F. Clippinger, B. Dimsdale, and J. H. Levin. Automatic digital computers in industrial research. V. *Journal of the Society for Industrial and Applied Mathematics*, 2(3):184–200, September 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Burks:1954:CDN**

- [22] Arthur W. Burks, Robert McNaughton, Carl H. Pollmar, Don W. Warren, and Jesse B. Wright. Complete decoding nets: General theory and minimality. *Journal of the Society for Industrial and Applied Mathematics*, 2(4): 201–243, December 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kampe de Feriet:1954:ISTc**

- [23] J. Kampe de Feriet. Introduction to the statistical theory of turbulence. III. *Journal of the Society for Industrial and Applied Mathematics*, 2(4): 244–271, December 1954. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Loeb:1955:DCL**

- [24] Arthur L. Loeb and Harry H. Denman. The digital computer as a laboratory tool: Electronic digital computation of optical constants of thin metal films. *Journal of the Society for Industrial and Applied Mathematics*, 3(1):1–16, March 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Erdelyi:1955:ARF**

- [25] A. Erdélyi. Asymptotic representations of Fourier integrals and the method of stationary phase. *Journal of the Society for Industrial and Applied Mathematics*, 3(1):17–27, March 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Peaceman:1955:NSP**

- [26] D. W. Peaceman and H. H. Rachford, Jr. The numerical solution of parabolic

and elliptic differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 3(1):28–41, March 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Douglas:1955:NII**

- [27] Jim Douglas, Jr. On the numerical integration  $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = \frac{\partial u}{\partial t}$  by implicit methods. *Journal of the Society for Industrial and Applied Mathematics*, 3(1):42–65, March 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Householder:1955:TNI**

- [28] A. S. Householder. Terminating and nonterminating iterations for solving linear systems. *Journal of the Society for Industrial and Applied Mathematics*, 3(2):67–72, June 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fagen:1955:QSS**

- [29] R. E. Fagen and John Riordan. Queuing systems for single and multiple operation. *Journal of the Society for Industrial and Applied Mathematics*, 3(2):73–79, June 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Clippinger:1955:ADC**

- [30] R. F. Clippinger, B. Dimsdale, and J. H. Levin. Automatic digital computers in industrial research. VI. *Journal of the Society for Industrial and Applied Mathematics*, 3(2):80–89, June 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**KampeDeFeriet:1955:IST**

- [31] J. Kampe De Feriet and S. I. Pai. Introduction to the statistical theory of turbulence. IV. *Journal of the Society for Industrial and Applied Mathematics*, 3(2):90–117, June 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**McMillan:1955:HP**

- [32] Brockway McMillan. History of a problem. *Journal of the Society for Industrial and Applied Mathematics*, 3(3):119–128, September 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bellman:1955:FEA**

- [33] Richard Bellman. A functional equation arising in allocation theory. *Journal of the Society for Industrial and Applied Mathematics*, 3(3):129–132, September 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bellman:1955:ERP**

- [34] Richard Bellman. Equipment replacement policy. *Journal of the Society for Industrial and Applied Mathematics*, 3(3):133–136, September 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Putnam:1955:TMD**

- [35] C. R. Putnam. Temporal means and distribution functions. *Journal of the Society for Industrial and Applied Mathematics*, 3(3):137–141, September 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Yeh:1955:PDC**

- [36] G. C. K. Yeh, J. Martinek, and G. S. S. Ludford. The potentials due to certain singularities in the presence of a fixed sphere. *Journal of the Society for Industrial and Applied Mathematics*, 3(3):142–152, September 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cole:1955:ACN**

- [37] K. S. Cole, H. A. Antosiewicz, and P. Rabinowitz. Automatic computation of nerve excitation. *Journal of the Society for Industrial and Applied Mathematics*, 3(3):153–172, September 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Forsythe:1955:CCM**

- [38] George E. Forsythe. Computing constrained minima with Lagrange multipliers. *Journal of the Society for Industrial and Applied Mathematics*, 3(4):173–178, December 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Luke:1955:RMS**

- [39] Yudell L. Luke. Remarks on the  $\tau$ -method for the solution of linear differential equations with rational coefficients. *Journal of the Society for Industrial and Applied Mathematics*, 3(4):179–191, December 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Middleton:1955:DES**

- [40] David Middleton and David van Meter. Detection and extraction of signals in noise from the point of view of statistical

decision theory. I. *Journal of the Society for Industrial and Applied Mathematics*, 3(4):192–253, December 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brachman:1955:NSS**

- [41] Malcolm K. Brachman. Notes on the summation of series. *Journal of the Society for Industrial and Applied Mathematics*, 3(4):254–258, December 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reid:1955:MSC**

- [42] Walter P. Reid. A method for solving certain boundary value problems. *Journal of the Society for Industrial and Applied Mathematics*, 3(4):259–261, December 1955. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Acrivos:1956:TRSa**

- [43] Andreas Acrivos. The transient response of stagewise processes. *Journal of the Society for Industrial and Applied Mathematics*, 4(1):1–19, March 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Douglas:1956:RBS**

- [44] Jim Douglas, Jr. On the relation between stability and convergence in the numerical solution of linear parabolic and hyperbolic differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 4(1):20–37, March 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Erdelyi:1956:AEF**

- [45] A. Erdélyi. Asymptotic expansions of Fourier integrals involving logarithmic singularities. *Journal of the Society for Industrial and Applied Mathematics*, 4(1):38–47, March 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See note [556].

**Bellman:1956:VPC**

- [46] Richard Bellman. A variational problem with constraints in dynamic programming. *Journal of the Society for Industrial and Applied Mathematics*, 4(1):48–61, March 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Stiefel:1956:SFI**

- [47] E. Stiefel. On solving Fredholm integral equations: Applications to conformal mapping and variational problems of potential theory. *Journal of the Society for Industrial and Applied Mathematics*, 4(2):63–85, June 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Middleton:1956:DES**

- [48] David Middleton and David van Meter. Detection and extraction of signals in noise from the point of view of statistical decision theory. II. *Journal of the Society for Industrial and Applied Mathematics*, 4(2):86–119, June 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Acrivos:1956:TRSB**

- [49] Andreas Acrivos. The transient response of stagewise processes. *Journal of the*

*Society for Industrial and Applied Mathematics*, 4(2):120–130, June 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bendat:1956:GTL**

- [50] Julius Bendat. A general theory of linear prediction and filtering. *Journal of the Society for Industrial and Applied Mathematics*, 4(3):131–151, September 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cohn:1956:SAN**

- [51] Harvey Cohn. Some applied number theory. *Journal of the Society for Industrial and Applied Mathematics*, 4(3):152–167, September 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bellman:1956:MAS**

- [52] Richard Bellman. Mathematical aspects of scheduling theory. *Journal of the Society for Industrial and Applied Mathematics*, 4(3):168–205, September 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Stegun:1956:PC**

- [53] Irene A. Stegun and Milton Abramowitz. Pitfalls in computation. *Journal of the Society for Industrial and Applied Mathematics*, 4(4):207–219, December 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Arms:1956:MBI**

- [54] R. J. Arms, L. D. Gates, and B. Zondek. A method of block iteration. *Journal of the Society for Industrial and Applied Mathematics*, 4(4):220–229, December

1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reissner:1956:NMB**

- [55] Eric Reissner. A note on membrane and bending stresses in spherical shells. *Journal of the Society for Industrial and Applied Mathematics*, 4(4):230–240, December 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Montroll:1956:RWM**

- [56] Elliot W. Montroll. Random walks in multidimensional spaces, especially on periodic lattices. *Journal of the Society for Industrial and Applied Mathematics*, 4(4):241–260, December 1956. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Schlesinger:1957:AEF**

- [57] Stewart Schlesinger. Approximating eigenvalues and eigenfunctions of symmetric kernels. *Journal of the Society for Industrial and Applied Mathematics*, 5(1):1–14, March 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Vinti:1957:SCS**

- [58] John P. Vinti and Tadeusz Leser. The sums of certain series involving Bessel functions. *Journal of the Society for Industrial and Applied Mathematics*, 5(1):15–31, March 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [373].

**Munkres:1957:AAT**

- [59] James Munkres. Algorithms for the assignment and transportation problems. *Journal of the Society for Industrial and*



*Applied Mathematics*, 5(1):32–38, March 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Varga:1957:CSO**

- [60] Richard S. Varga. A comparison of the successive overrelaxation method and semi-iterative methods using Chebyshev polynomials. *Journal of the Society for Industrial and Applied Mathematics*, 5(2):39–46, June 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Krzywoblocki:1957:GBL**

- [61] M. Z. V. Krzywoblocki and H. A. Hassan. Generalization of Bergman's linear integral operator method to diabatic flow. *Journal of the Society for Industrial and Applied Mathematics*, 5(2):47–65, June 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Peirce:1957:NIP**

- [62] William H. Peirce. Numerical integration over the planar annulus. *Journal of the Society for Industrial and Applied Mathematics*, 5(2):66–73, June 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Forsythe:1957:GUO**

- [63] George E. Forsythe. Generation and use of orthogonal polynomials for data-fitting with a digital computer. *Journal of the Society for Industrial and Applied Mathematics*, 5(2):74–88, June 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dolph:1957:SPC**

- [64] C. L. Dolph. A saddle point characterization of the Schwinger stationary points in exterior scattering problems. *Journal of the Society for Industrial and Applied Mathematics*, 5(3):89–104, September 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kiefer:1957:OSS**

- [65] J. Kiefer. Optimum sequential search and approximation methods under minimum regularity assumptions. *Journal of the Society for Industrial and Applied Mathematics*, 5(3):105–136, September 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Greville:1957:SFT**

- [66] T. N. E. Greville. On smoothing a finite table: A matrix approach. *Journal of the Society for Industrial and Applied Mathematics*, 5(3):137–154, September 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Householder:1957:SSC**

- [67] Alston S. Householder. A survey of some closed methods for inverting matrices. *Journal of the Society for Industrial and Applied Mathematics*, 5(3):155–169, September 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Payne:1957:LBV**

- [68] L. E. Payne and H. F. Weinberger. Lower bounds for vibration frequencies of elastically supported membranes and plates. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):

171–182, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sims:1957:CAI**

- [69] A. R. Sims. Certain aspects of the inverse scattering problem. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):183–205, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brown:1957:ADL**

- [70] WM. M. Brown. Analysis of discrete linear systems. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):206–224, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Riordan:1957:CST**

- [71] John Riordan. The combinatorial significance of a theorem of Polya. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):225–237, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Heller:1957:OPL**

- [72] J. Heller. Ordering properties of linear successive iteration schemes applied to multi-diagonal type linear systems. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):238–243, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Campbell:1957:UHE**

- [73] L. Lorne Campbell. On the use of Hermite expansions in noise problems. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):

244–249, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brauer:1957:MCG**

- [74] Alfred Brauer. A method for the computation of the greatest root of a positive matrix. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):250–253, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Salzer:1957:NMI**

- [75] Herbert E. Salzer. Note on multivariate interpolation for unequally spaced arguments, with an application to double summation. *Journal of the Society for Industrial and Applied Mathematics*, 5(4):254–262, December 1957. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fagen:1958:RWR**

- [76] R. E. Fagen and T. A. Lehrer. Random walks with restraining barrier as applied to the biased binary counter. *Journal of the Society for Industrial and Applied Mathematics*, 6(1):1–14, March 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kelley:1958:ALP**

- [77] James E. Kelley, Jr. An application of linear programming to curve fitting. *Journal of the Society for Industrial and Applied Mathematics*, 6(1):15–22, March 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dimsdale:1958:NCC**

- [78] B. Dimsdale. The non-convergence of a characteristic root method. *Journal*

of the Society for Industrial and Applied Mathematics, 6(1):23–25, March 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Givens:1958:CPU**

- [79] Wallace Givens. Computation of plane unitary rotations transforming a general matrix to triangular form. *Journal of the Society for Industrial and Applied Mathematics*, 6(1):26–50, March 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hestenes:1958:IMB**

- [80] Magnus R. Hestenes. Inversion of matrices by biorthogonalization and related results. *Journal of the Society for Industrial and Applied Mathematics*, 6(1):51–90, March 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lanczos:1958:ISL**

- [81] C. Lanczos. Iterative solution of large-scale linear systems. *Journal of the Society for Industrial and Applied Mathematics*, 6(1):91–109, March 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wittmeyer:1958:NMD**

- [82] H. Wittmeyer. A new method for developing simple formulae for the eigenvalues of linear ordinary self-adjoint differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 6(2):111–143, June 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Henrici:1958:SCC**

- [83] Peter Henrici. On the speed of convergence of cyclic and quasicyclic Jacobi methods for computing eigenvalues of Hermitian matrices. *Journal of the Society for Industrial and Applied Mathematics*, 6(2):144–162, June 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tarnove:1958:DEM**

- [84] Ivin Tarnove. Determination of eigenvalues of matrices having polynomial elements. *Journal of the Society for Industrial and Applied Mathematics*, 6(2):163–171, June 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Causey:1958:CEN**

- [85] Robert L. Causey. Computing eigenvalues of non-Hermitian matrices by methods of Jacobi type. *Journal of the Society for Industrial and Applied Mathematics*, 6(2):172–181, June 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gregory:1958:RUL**

- [86] Robert T. Gregory. Results using Lanczos' method for finding eigenvalues of arbitrary matrices. *Journal of the Society for Industrial and Applied Mathematics*, 6(2):182–188, June 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Householder:1958:CMI**

- [87] Alston S. Householder. A class of methods for inverting matrices. *Journal of the Society for Industrial and Applied Mathematics*, 6(2):189–195, June 1958. CO-

DEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cole:1958:ACN**

- [88] K. S. Cole, H. A. Antosiewicz, and P. Rabinowitz. Automatic computation of nerve excitation, correction. *Journal of the Society for Industrial and Applied Mathematics*, 6(2):196–197, June 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kochen:1958:MFI**

- [89] Manfred Kochen. A mathematical formulation of influence distributions in decision-making groups. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):199–208, September 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Weinitschke:1958:NTS**

- [90] Hubertus J. Weinitschke. On the nonlinear theory of shallow spherical shells. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):209–232, September 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cheney:1958:NPZ**

- [91] Ward Cheney and Allen A. Goldstein. Note on a paper by Zuhovickii concerning the Tchebycheff problem for linear equations: [“An Algorithm for the Solution of the Čebyšev Approximation Problem in the Case of a Finite System of Incompatible Linear Equations”, *Doklady Akad. Nauk SSSR (N.S.)*, **79** (1951), pp. 561–564; *Math. Rev.* **13** (1952), p. 285]. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):233–239, September 1958. CODEN

JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bridgland:1958:NNI**

- [92] T. F. Bridgland, Jr. A note on numerical integrating operators. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):240–256, September 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lehman:1958:SRR**

- [93] R. Sherman Lehman and George H. Weiss. A study of the restricted random walk. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):257–278, September 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Osborne:1958:AMD**

- [94] Elmer E. Osborne. On acceleration and matrix deflation processes used with the power method. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):279–287, September 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Thacher:1958:GCR**

- [95] Henry C. Thacher, Jr. Generalization of concepts related to linear dependence. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):288–299, September 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Whaples:1958:NDI**

- [96] G. Whaples. A note on degree- $n$  independence. *Journal of the Society for Industrial and Applied Mathematics*, 6(3):300–301, September 1958. CODEN

JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Maradudin:1958:DLP**

- [97] Alexei Maradudin and George H. Weiss. The disordered lattice problem: A review. *Journal of the Society for Industrial and Applied Mathematics*, 6(3): 302–319, September 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gerstenhaber:1958:SMT**

- [98] Murray Gerstenhaber. A solution method for the transportation problem. *Journal of the Society for Industrial and Applied Mathematics*, 6(4): 321–334, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Guderley:1958:NEP**

- [99] K. G. Guderley. On nonlinear eigenvalue problems for matrices. *Journal of the Society for Industrial and Applied Mathematics*, 6(4):335–353, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Birkhoff:1958:RCN**

- [100] Garrett Birkhoff and Richard S. Varga. Reactor criticality and nonnegative matrices. *Journal of the Society for Industrial and Applied Mathematics*, 6(4): 354–377, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [132].

**Frank:1958:CEC**

- [101] Werner L. Frank. Computing eigenvalues of complex matrices by determinant evaluation and by methods of Danilewski and Wielandt. *Journal of*

*the Society for Industrial and Applied Mathematics*, 6(4):378–392, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**White:1958:CEE**

- [102] Paul A. White. The computation of eigenvalues and eigenvectors of a matrix. *Journal of the Society for Industrial and Applied Mathematics*, 6(4): 393–437, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bauer:1958:MCM**

- [103] W. F. Bauer. The Monte Carlo method. *Journal of the Society for Industrial and Applied Mathematics*, 6(4): 438–451, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Keller:1958:AST**

- [104] Herbert B. Keller. Approximate solutions of transport problems — part I: Steady-state, elastic scattering in plane and spherical geometry. *Journal of the Society for Industrial and Applied Mathematics*, 6(4):452–465, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Newman:1958:EMI**

- [105] Morris Newman and John Todd. The evaluation of matrix inversion programs. *Journal of the Society for Industrial and Applied Mathematics*, 6(4):466–476, December 1958. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pawlak:1959:DNT**

- [106] Zdzislaw Pawlak. Decoding nets and the theory of graphs. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):1–5, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Leipnik:1959:IEB**

- [107] Roy Leipnik. Integral equations, biorthonormal expansions, and noise. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):6–30, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Zierler:1959:LRS**

- [108] Neal Zierler. Linear recurring sequences. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):31–48, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Weinberger:1959:EBF**

- [109] H. F. Weinberger. Error bounds in finite-difference approximation to solutions of symmetric hyperbolic systems. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):49–75, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Grosswald:1959:TUN**

- [110] Emil Grosswald. Transformations useful in numerical integration methods. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):76–84, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ehlers:1959:MCI**

- [111] F. Edward Ehlers. The method of characteristics for isoenergetic supersonic flows adapted to high-speed digital computers. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):85–100, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Putnam:1959:SIH**

- [112] C. R. Putnam. On the stability intervals of the Hill equation. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):101–106, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bauer:1959:SRT**

- [113] F. L. Bauer. Sequential reduction to tridiagonal form. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):107–113, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rogers:1959:PTT**

- [114] Hartley Rogers, Jr. The present theory of Turing machine computability. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):114–130, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Weisfeld:1959:RPR**

- [115] Morris Weisfeld. A remark on a paper of R. T. Gregory. *Journal of the Society for Industrial and Applied Mathematics*, 7(1):131, March 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rice:1959:CAB**

- [116] J. R. Rice. On the convergence of an algorithm for best Tchebycheff approximations. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):133–142, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Baker:1959:NDN**

- [117] George A. Baker, Jr. A new derivation of Newton's identities and their application to the calculation of the eigenvalues of a matrix. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):143–148, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wilf:1959:MIA**

- [118] Herbert S. Wilf. Matrix inversion by the annihilation of rank. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):149–151, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Swerling:1959:PEW**

- [119] P. Swerling. Parameter estimation for waveforms in additive Gaussian noise. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):152–166, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lees:1959:ASP**

- [120] Milton Lees. Approximate solutions of parabolic equations. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):167–183, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Trench:1959:EMS**

- [121] William F. Trench. On an explicit method for the solution of a Stefan problem. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):184–204, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Blum:1959:BEL**

- [122] Marvin Blum and Hirsch Gottschalk. On the bias errors of least squares digital filters. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):205–214, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Breakwell:1959:OT**

- [123] John V. Breakwell. The optimization of trajectories. *Journal of the Society for Industrial and Applied Mathematics*, 7(2):215–247, June 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Erdelyi:1959:IS**

- [124] A. Erdélyi. Introductory statement. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):249–252, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**vanderCorput:1959:N**

- [125] J. G. van der Corput. Neutrices. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):253–279, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Friedman:1959:SPN**

- [126] B. Friedman. Stationary phase with neighboring critical points. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):280–289, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hull:1959:SIE**

- [127] T. E. Hull. On some integral equations with unbounded eigenvalues. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):290–297, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Langer:1959:ATL**

- [128] Rudolph E. Langer. Asymptotic theories for linear ordinary differential equations depending upon a parameter. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):298–310, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Szego:1959:RAO**

- [129] G. Szegő. Recent advances and open questions on the asymptotic expansions of orthogonal polynomials. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):311–315, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Turrittin:1959:SSS**

- [130] H. L. Turrittin and W. A. Harris, Jr. Standardization and simplification of systems of linear differential equations involving a turning point. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):316–324, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wyman:1959:ABL**

- [131] Max Wyman. The asymptotic behavior of the Laurent coefficients. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):325–342, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Birkhoff:1959:ERC**

- [132] Garrett Birkhoff and Richard S. Varga. Errata: “Reactor Criticality and Non-negative Matrices” [J. SIAM **6** (1958), no. 4, 354–377]. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):343, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [100].

**Salzer:1959:BAM**

- [133] Herbert E. Salzer. Best approximation of mixed type. *Journal of the Society for Industrial and Applied Mathematics*, 7(4):345–360, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Conte:1959:NIO**

- [134] S. D. Conte and J. W. Miles. On the numerical integration of the Orr–Sommerfeld equation. *Journal of the Society for Industrial and Applied Mathematics*, 7(4):361–366, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Flanagan:1959:ERC**

- [135] Czerna Flanagan and J. E. Maxfield. Estimates of the roots of certain polynomials. *Journal of the Society for Industrial and Applied Mathematics*, 7(4):367–373, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).



**Grenander:1959:DQF**

- [136] ULF Grenander, H. O. Pollak, and D. Slepian. The distribution of quadratic forms in normal variates: A small sample theory with applications to spectral analysis. *Journal of the Society for Industrial and Applied Mathematics*, 7(4): 374–401, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hull:1959:EBF**

- [137] T. E. Hull and A. C. R. Newbery. Error bounds for a family of three-point integration procedures. *Journal of the Society for Industrial and Applied Mathematics*, 7(4):402–412, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gilbert:1959:OSS**

- [138] E. N. Gilbert. Optimal search strategies. *Journal of the Society for Industrial and Applied Mathematics*, 7(4): 413–424, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Radok:1959:MFE**

- [139] J. R. M. Radok. Method of functional extrapolation for the numerical integration of ordinary differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 7(4): 425–430, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bridgland:1959:LAF**

- [140] T. F. Bridgland, Jr. A linear algebraic formulation of the theory of sampled-data control. *Journal of the Society for*

*Industrial and Applied Mathematics*, 7(4):431–446, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fitzhugh:1959:ACN**

- [141] R. Fitzhugh and H. A. Antosiewicz. Automatic computation of nerve excitation — detailed corrections and additions. *Journal of the Society for Industrial and Applied Mathematics*, 7(4): 447–458, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ablow:1959:ISD**

- [142] C. M. Ablow and C. L. Perry. Iterative solutions of the Dirichlet problem for  $\Delta u = u^2$ . *Journal of the Society for Industrial and Applied Mathematics*, 7(4):459–467, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Chang:1959:NSS**

- [143] K. T. Chang. On the numerical solution of simultaneous linear differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 7(4):468–472, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Boyer:1959:IDE**

- [144] R. H. Boyer. An integro-differential equation for a Markov process. *Journal of the Society for Industrial and Applied Mathematics*, 7(4):473–486, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Akers:1959:TBF**

- [145] Sheldon B. Akers, Jr. On a theory of Boolean functions. *Journal of the Society for Industrial and Applied Mathematics*, 7(4):487–498, December 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bauer:1960:A**

- [146] Friedrich L. Bauer. The  $g$ -algorithm. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):1–17, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Salzer:1960:HGO**

- [147] Herbert E. Salzer. Hermite's general oscillatory interpolation formula and a finite difference analogue. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):18–27, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brown:1960:MST**

- [148] J. L. Brown, Jr. Mean square truncation error in series expansions of random functions. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):28–32, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Thacher:1960:ISV**

- [149] Henry C. Thacher, Jr. and W. E. Milne. Interpolation in several variables. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):33–42, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Keller:1960:AST**

- [150] Herbert B. Keller. Approximate solutions of transport problems. II. convergence and applications of the discrete ordinate method. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):43–73, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Blair:1960:PSU**

- [151] K. W. Blair and W. S. Loud. Periodic solutions of  $x'' + cx' + g(x) = ef(t)$  under variation of certain parameters. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):74–101, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Boyell:1960:ATS**

- [152] Roger L. Boyell. Analysis of time-sharing in digital computers. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):102–124, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Drenick:1960:MAR**

- [153] R. F. Drenick. Mathematical aspects of the reliability problem. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):125–149, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Heller:1960:SSA**

- [154] J. Heller. Simultaneous, successive and alternating direction iteration schemes. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):150–173, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tauber:1960:DEC**

- [155] Selmo Tauber and Donald Dean. On difference equations containing step and delta functions. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):174–180, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rosen:1960:GPM**

- [156] J. B. Rosen. The gradient projection method for nonlinear programming, part I. linear constraints. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):181–217, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dimsdale:1960:CRM**

- [157] B. Dimsdale. Characteristic roots of a matrix polynomial. *Journal of the Society for Industrial and Applied Mathematics*, 8(1):218–223, March 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Shapiro:1960:AFS**

- [158] Harold S. Shapiro and Richard A. Silverman. Alias-free sampling of random noise. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):225–248, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lewis:1960:TRI**

- [159] J. A. Lewis and T. D. Riney. Temperature rise in an infinite medium heated by a planar source. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):249–271, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Anselone:1960:PES**

- [160] Philip M. Anselone. Persistence of an effect of a success in a Bernoulli sequence. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):272–279, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Arrow:1960:SGP**

- [161] Kenneth J. Arrow and Leonid Hurwicz. Stability of the gradient process in  $n$ -person games. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):280–294, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Weiss:1960:TFB**

- [162] Lionel Weiss. A test of fit based on the largest sample spacing. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):295–299, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See erratum [239].

**Reed:1960:PCC**

- [163] I. S. Reed and G. Solomon. Polynomial codes over certain finite fields. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):300–304, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Struble:1960:DSI**

- [164] Raimond A. Struble. Differentiation of singular integrals of Cauchy type. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):305–308, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kelly:1960:DREa**

- [165] E. J. Kelly, I. S. Reed, and W. L. Root. The detection of radar echoes in noise. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):309–341, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Stewart:1960:NES**

- [166] Charles E. Stewart. On the numerical evaluation of singular integrals of Cauchy type. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):342–353, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Roe:1960:AMT**

- [167] Glenn M. Roe. An accurate method for terminating asymptotic series. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):354–367, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Katz:1960:SME**

- [168] Stanley Katz. A stochastic model for emulsion polymerization. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):368–375, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Parter:1960:EEC**

- [169] S. Parter. On the eigenvalues and eigenvectors of a class of matrices. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):376–388, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Johnson:1960:PEC**

- [170] M. W. Johnson and E. Reissner. Parametric expansions for a class of boundary value problems of partial differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):389–396, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Mills:1960:EPF**

- [171] Harlan Mills. Equilibrium points in finite games. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):397–402, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wachspress:1960:ADI**

- [172] E. L. Wachspress and G. J. Habetler. An alternating-direction-implicit iteration technique. *Journal of the Society for Industrial and Applied Mathematics*, 8(2):403–424, June 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dreyfus:1960:GER**

- [173] Stuart E. Dreyfus. A generalized equipment replacement study. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):425–435, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**McKinney:1960:MED**

- [174] Wilbur T. McKinney. Matrix equations for the determination of beam natural frequencies. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):436–457, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Loeb:1960:ACA**

- [175] Henry L. Loeb. Algorithms for Chebyshev approximations using the ratio of linear forms. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):458–465, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sinden:1960:RED**

- [176] Frank W. Sinden. The replacement and expansion of durable equipment. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):466–480, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kelly:1960:DREb**

- [177] E. J. Kelly, I. S. Reed, and W. L. Root. The detection of radar echoes in noise. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):481–507, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wendroff:1960:CDO**

- [178] Burton Wendroff. On the convergence of the discrete ordinate method. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):508–513, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gerstenhaber:1960:PFZ**

- [179] M. Gerstenhaber. A procedure for finding a zero of a vector-valued function with certain monotonicity properties. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):

514–517, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lees:1960:GP**

- [180] Milton Lees. The Goursat problem. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):518–530, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bridgland:1960:NNI**

- [181] T. F. Bridgland, Jr. A note on numerical integrating operators. II. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):531–536, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wilf:1960:MSN**

- [182] Herbert S. Wilf. Maximally stable numerical integration. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):537–540, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Franklin:1960:RFA**

- [183] J. N. Franklin. The range of a fleet of aircraft. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):541–548, September 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wendroff:1960:CDE**

- [184] Burton Wendroff. On centered difference equations for hyperbolic systems. *Journal of the Society for Industrial and Applied Mathematics*, 8(3):549–555, September 1960. CODEN JSI-

MAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Moore:1960:EER**

- [185] John T. Moore. An extension of an early result of stieltjes. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):557–559, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Keller:1960:PCD**

- [186] Herbert B. Keller. On the pointwise convergence of the discrete-ordinate method. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):560–567, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rauch:1960:ISA**

- [187] L. M. Rauch and W. C. Riddell. The iterative solutions of the analytical  $N$ -body problem. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):568–581, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bellman:1960:BP**

- [188] Richard Bellman and Robert Kalaba. On  $k$ th best policies. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):582–588, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sedney:1960:NDS**

- [189] R. Sedney, N. Gerber, and J. M. Bartos. Numerical determination of streamlines from density data. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):589–610, December 1960. CODEN

JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Karlin:1960:OPD**

- [190] Samuel Karlin. Optimal policy for dynamic inventory process with stochastic demands subject to seasonal variations. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):611–629, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wilkins:1960:MMT**

- [191] J. Ernest Wilkins, Jr. Minimum-mass thin fins which transfer heat only by radiation to surroundings at absolute zero. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):630–639, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Albert:1960:SMP**

- [192] G. E. Albert. Statistical methods in prediction, filtering, and detection problems. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):640–653, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kellogg:1960:SIL**

- [193] R. Bruce Kellogg and L. C. Noderer. Scaled iterations and linear equations. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):654–661, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Beutler:1960:AWO**

- [194] Frederick J. Beutler. Approximations to Wiener optimum filters and predictors. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):662–679, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [238].

**Drenick:1960:FLC**

- [195] R. F. Drenick. The failure law of complex equipment. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):680–690, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rice:1960:CA**

- [196] John R. Rice. Chebyshev approximation by  $*ab^x + c$ . *Journal of the Society for Industrial and Applied Mathematics*, 8(4):691–702, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kelley:1960:CPM**

- [197] J. E. Kelley, Jr. The cutting-plane method for solving convex programs. *Journal of the Society for Industrial and Applied Mathematics*, 8(4):703–712, December 1960. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lemke:1961:CGM**

- [198] C. E. Lemke. The constrained gradient method of linear programming. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):1–17, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fulkerson:1961:KMM**

- [199] D. R. Fulkerson. An out-of-kilter method for minimal-cost flow problems. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):18–27, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Morrison:1961:DEP**

- [200] D. D. Morrison. The deflation of eigenvalue problems with second-order ordinary differential operators. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):28–30, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hull:1961:IPW**

- [201] T. E. Hull and A. C. R. Newbery. Integration procedures which minimize propagated errors. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):31–47, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fleischer:1961:NRU**

- [202] Isidore Fleischer. Numerical representation of utility. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):48–50, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dorn:1961:SDQ**

- [203] W. S. Dorn. Self-dual quadratic programs. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):51–54, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Jewell:1961:OSE**

- [204] James G. Jewell. Ordering systems of equations. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):55–71, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Balinski:1961:AFA**

- [205] M. L. Balinski. An algorithm for finding all vertices of convex polyhedral sets. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):72–88, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Householder:1961:DM**

- [206] A. S. Householder. On deflating matrices. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):89–93, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Squire:1961:SAQ**

- [207] William Squire. Some applications of quadrature by differentiation. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):94–108, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Greville:1961:NFF**

- [208] T. N. E. Greville. Note on fitting of functions of several independent variables. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):109–115, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See erratum [225].

**Myers:1961:TTM**

- [209] B. R. Myers. Two theorems in multi-weighted sums. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):116–126, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rouse:1961:MNC**

- [210] Carl A. Rouse. A method for the numerical calculation of hydrodynamic flow and radiation diffusion by implicit differencing. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):127–135, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wright:1961:SCR**

- [211] E. M. Wright. Stability criteria and the real roots of a transcendental equation. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):136–148, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ehrlich:1961:FDT**

- [212] Louis W. Ehrlich, James D. Riley, W. Gilbert Strang, and B. Andreas Troesch. Finite-difference techniques for a boundary problem with an eigenvalue in a boundary condition. *Journal of the Society for Industrial and Applied Mathematics*, 9(1):149–164, March 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Howland:1961:GCF**

- [213] James Lucien Howland and Remi Vaillancourt. A generalized curve-fitting procedure. *Journal of the Society for*



*Industrial and Applied Mathematics*, 9 (2):165–168, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rosenstock:1961:RWS**

- [214] Herbert B. Rosenstock. Random walks with spontaneous emission. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):169–188, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [296].

**Bellar:1961:ISL**

- [215] Fred J. Bellar, Jr. An iterative solution of large-scale systems of simultaneous linear equations. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):189–193, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wilkins:1961:MMT**

- [216] J. Ernest Wilkins, Jr. Minimum mass thin fins with specified minimum thickness. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):194–206, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gorenstein:1961:CEC**

- [217] Daniel Gorenstein and Neal Zierler. A class of error-correcting codes in  $p^m$  symbols. *Journal of the Society for Industrial and Applied Mathematics*, 9 (2):207–214, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wax:1961:PMT**

- [218] Nelson Wax. On a phase method for treating Sturm–Liouville equations and problems. *Journal of the Society for Industrial and Applied Mathematics*, 9 (2):215–232, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ponstein:1961:MDN**

- [219] J. Ponstein. Matrix description of networks. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):233–268, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Richards:1961:RVL**

- [220] Paul B. Richards. Representation by vortex-like singularities of obstacle flow in a straight channel. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):269–281, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Salzer:1961:IFN**

- [221] Herbert E. Salzer. An interpolation formula for “nearly-odd” functions, with an application to the summation of even functions. *Journal of the Society for Industrial and Applied Mathematics*, 9 (2):282–287, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rall:1961:NMC**

- [222] L. B. Rall. Newton’s method for the characteristic value problem  $ax = \lambda bx$ . *Journal of the Society for Industrial and Applied Mathematics*, 9(2):

288–293, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [270].

**OCallaghan:1961:DCP**

- [223] T. O’Callaghan. The design of a computer program to determine the natural frequencies and normal modes of vibration of an in-line mechanical system of springs and masses. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):294–310, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wouk:1961:OUF**

- [224] Arthur Wouk. On optimum utilization of faulty channels. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):311–316, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Greville:1961:ENF**

- [225] T. N. E. Greville. Erratum: “Note on Fitting Functions of Several Independent Variables” [J. SIAM 9 (1961), no. 1, 109–115]. *Journal of the Society for Industrial and Applied Mathematics*, 9(2):317, June 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [208].

**Butler:1961:PSS**

- [226] John B. Butler, Jr. On the perturbation series solution for the deflection of a semi-infinite vibrating bar on an elastic foundation. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):319–333, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Parr:1961:ULB**

- [227] Wallace E. Parr. Upper and lower bounds for the capacitance of the regular solids. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):334–386, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Foster:1961:AWK**

- [228] Manus Foster. An application of the Wiener-Kolmogorov smoothing theory to matrix inversion. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):387–392, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Moore:1961:NAE**

- [229] John T. Moore. Note on asymptotic expansions of modified Bessel functions. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):393–394, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Corrsin:1961:CLS**

- [230] S. Corrsin and O. M. Phillips. Contour length and surface area of multiple-valued random variables. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):395–404, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Trench:1961:GCD**

- [231] William F. Trench. A general class of discrete time-invariant filters. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):405–421, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Melzak:1961:PMC**

- [232] Z. A. Melzak. Plane motion with curvature limitations. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):422–432, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Douglas:1961:III**

- [233] Jim Douglas, Jr. On incomplete iteration for implicit parabolic difference equations. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):433–439, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Berman:1961:GNC**

- [234] Gerald Berman. A generalization of Nyquist’s criterion to the stability of active linear systems. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):440–454, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tu:1961:LVB**

- [235] Yih-O Tu and George Handelman. Lateral vibrations of a beam under initial linear axial stress. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):455–473, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**VanGelder:1961:MTM**

- [236] A. Van Gelder, E. Beltram, and H. Munnick. On minimum-time minimum-fuel rendezvous. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):474–480, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wolfe:1961:ACP**

- [237] Philip Wolfe. Accelerating the cutting plane method for nonlinear programming. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):481–488, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Beutler:1961:EAW**

- [238] Frederick J. Beutler. Errata: “Approximations to Wiener Optimum Filters and Predictors” [J. SIAM **8** (1960), no. 4, 662–679]. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):488, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [194].

**Weiss:1961:ETF**

- [239] Lionel Weiss. Erratum: “A Test of Fit Based on the Largest Sample Spacing” [J. SIAM **8** (1960), no. 2, 295–299]. *Journal of the Society for Industrial and Applied Mathematics*, 9(3):488, September 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [162].

**Galletly:1961:NMB**

- [240] G. D. Galletly, W. T. Kyner, and C. E. Moller. Numerical methods and the bending of ellipsoidal shells. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):489–513, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rosen:1961:GPM**

- [241] J. B. Rosen. The gradient projection method for nonlinear programming. part II. nonlinear constraints. *Journal of*

*the Society for Industrial and Applied Mathematics*, 9(4):514–532, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gilbert:1961:RPN**

- [242] E. N. Gilbert. Random plane networks. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):533–543, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Aumann:1961:ASC**

- [243] Robert J. Aumann. Almost strictly competitive games. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):544–550, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gomory:1961:MTN**

- [244] R. E. Gomory and T. C. Hu. Multi-terminal network flows. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):551–570, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rice:1961:ACA**

- [245] John R. Rice. Algorithms for Chebyshev approximation by  $ab^x + c$ . *Journal of the Society for Industrial and Applied Mathematics*, 9(4):571–583, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Heaslet:1961:DFS**

- [246] Max A. Heaslet and Alberta Alksne. Diffusion from a fixed surface with a concentration-dependent coefficient. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):

584–596, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wouk:1961:DDR**

- [247] Arthur Wouk. On digit distributions for random variables. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):597–603, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pyne:1961:EPI**

- [248] I. B. Pyne and E. J. McCluskey, Jr. An essay on prime implicant tables. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):604–631, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pandit:1961:NMC**

- [249] S. N. N. Pandit. A new matrix calculus. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):632–639, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Taussky:1961:GTL**

- [250] Olga Taussky. A generalization of a theorem of Lyapunov. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):640–643, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Krall:1961:EPR**

- [251] Allan M. Krall. An extension and proof of the root-locus method. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):644–653, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Mattson:1961:NTB**

- [252] H. F. Mattson and G. Solomon. A new treatment of bose-chaudhuri codes. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):654–669, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rivlin:1961:UAC**

- [253] T. J. Rivlin and H. S. Shapiro. A unified approach to certain problems of approximation and minimization. *Journal of the Society for Industrial and Applied Mathematics*, 9(4):670–699, December 1961. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bureau:1962:ABS**

- [254] F. J. Bureau and E. J. Pellicciaro. Asymptotic behavior of the spectral matrix of the operator of elasticity. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):1–18, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Liu:1962:VPA**

- [255] Chen-Ya Liu. A variational problem with applications to cooling fins. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):19–29, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Maehly:1962:NSC**

- [256] Hans J. Maehly. Numerical solution of a certain transcendental equation involving exponentials (A remark on a paper of J. R. Rice). *Journal of the Society for Industrial and Applied Mathematics*,

10(1):30–34, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Williams:1962:TTP**

- [257] A. C. Williams. A treatment of transportation problems by decomposition. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):35–48, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Mitchell:1962:RDO**

- [258] Thomas P. Mitchell and Daniel L. Pope. On the relativistic damped oscillator. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):49–61, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wilkins:1962:MMT**

- [259] J. Ernest Wilkins, Jr. Minimum-mass thin fins and constant temperature gradients. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):62–73, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Eberlein:1962:JLM**

- [260] P. J. Eberlein. A Jacobi-like method for the automatic computation of eigenvalues and eigenvectors of an arbitrary matrix. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):74–88, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [282].

**Freiberger:1962:RAV**

- [261] W. Freiberger, M. Rosenblatt, and J. Van Ness. Regression analysis of vector-valued random processes. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):89–102, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Crowell:1962:GLT**

- [262] R. H. Crowell. Graphs of linear transformations over finite fields. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):103–112, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Max:1962:SSU**

- [263] Joel Max. Signal sets with uniform correlation properties. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):113–118, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Duffin:1962:DPM**

- [264] R. J. Duffin. Dual programs and minimum cost. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):119–123, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Chow:1962:NSC**

- [265] Tse-Sun Chow and Harold Willis Milnes. Numerical solution of a class of hyperbolic-parabolic partial differential equations by boundary contraction. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):124–148, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rice:1962:CAE**

- [266] John R. Rice. Chebyshev approximation by exponentials. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):149–161, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wilkinson:1962:EAE**

- [267] J. H. Wilkinson. Error analysis of eigenvalue techniques based on orthogonal transformations. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):162–195, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Held:1962:DPA**

- [268] Michael Held and Richard M. Karp. A dynamic programming approach to sequencing problems. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):196–210, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Marshall:1962:DCG**

- [269] Clifford W. Marshall. Double correspondence graphs. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):211–227, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rall:1962:ENM**

- [270] L. B. Rall. Errata: “Newton’s Method for the Characteristic Value Problem  $Ax = \lambda Bx$ ” [J. SIAM **9** (1961), no. 2, 288-293]. *Journal of the Society for Industrial and Applied Mathematics*, 10(1):228, March 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [222].

**Thomee:1962:SDS**

- [271] Vidar Thomee. A stable difference scheme for the mixed boundary problem for a hyperbolic, first-order system in two dimensions. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):229–245, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Keller:1962:ELS**

- [272] Herbert B. Keller and Joseph B. Keller. Exponential-like solutions of systems of linear ordinary differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):246–259, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gomory:1962:AGL**

- [273] R. E. Gomory and T. C. Hu. An application of generalized linear programming to network flows. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):260–283, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Baer:1962:NS**

- [274] Robert M. Baer and Paul Brock. Natural sorting. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):284–304, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gilmore:1962:OSA**

- [275] P. C. Gilmore. Optimal and suboptimal algorithms for the quadratic assignment problem. *Journal of the Society for Industrial and Applied Mathematics*, 10

(2):305–313, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Struble:1962:GPS**

- [276] Raimond A. Struble and John E. Fletcher. General perturbational solution of the Mathieu equation. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):314–328, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Osborne:1962:CBM**

- [277] Elmer E. Osborne. Computations of bending modes and mode shapes of single and double beams. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):329–338, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wachspress:1962:OAD**

- [278] E. L. Wachspress. Optimum alternating-direction-implicit iteration parameters for a model problem. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):339–350, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hull:1962:CFM**

- [279] T. E. Hull and A. C. R. Newbery. Corrector formulas for multi-step integration methods. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):351–369, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bramble:1962:BDD**

- [280] J. H. Bramble and L. E. Payne. Bounds for derivatives in the Dirichlet problem

for Poisson's equation. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):370–380, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Doyle:1962:DCN**

- [281] Worthie Doyle, J. A. McFadden, and Imanuel Marx. The distribution of a certain nonlinear functional of an Ornstein–Uhlenbeck process. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):381–393, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Eberlein:1962:EJL**

- [282] P. J. Eberlein. Errata: “A Jacobi-like Method for the Automatic Computation of Eigenvalues and Eigenvectors” [J. SIAM **9** (1961), no. 2, 288–293]. *Journal of the Society for Industrial and Applied Mathematics*, 10(2):393, June 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [260].

**Bather:1962:ORP**

- [283] J. A. Bather. Optimal regulation policies for finite dams. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):395–423, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Greenfield:1962:USI**

- [284] Harvey Greenfield. Use of the Stodola iteration process in a Sturm–Liouville type problem with variable coefficients. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):424–441, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Levinson:1962:EPR**

- [285] Norman Levinson. Emission probability in a random walk. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):442–447, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rudd:1962:ORA**

- [286] Dale F. Rudd. On optimal resource allocation in multistage feedback processes. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):448–453, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Putzer:1962:RGS**

- [287] Eugene J. Putzer. The rate of growth of solutions of a second-order differential equation. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):454–468, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fu:1962:NRC**

- [288] Y. Fu and S. S. Yau. A note on the reliability of communication networks. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):469–474, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brown:1962:NSB**

- [289] Robert R. Brown. Numerical solution of boundary value problems using nonuniform grids. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):475–495, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).



**Hakimi:1962:RSI**

- [290] S. L. Hakimi. On realizability of a set of integers as degrees of the vertices of a linear graph. I. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):496–506, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wong:1962:PES**

- [291] E. Wong and J. B. Thomas. On polynomial expansions of second-order distributions. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):507–516, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Miracle:1962:AST**

- [292] Chester L. Miracle. Approximate solutions of the telegrapher’s equation by difference-equation methods. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):517–527, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Blattner:1962:BM**

- [293] J. W. Blattner. Bordered matrices. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):528–536, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rosenblatt:1962:OMC**

- [294] M. Rosenblatt and D. Slepian.  $N$ th order Markov chains with every  $N$  variables independent. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):537–549, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bellman:1962:MPM**

- [295] Richard Bellman and William Karush. Mathematical programming and the maximum transform. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):550–567, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rosenstock:1962:ERW**

- [296] Herbert B. Rosenstock. Errata: “Random Walks with Spontaneous Emission” [J. SIAM **9** (1961), no. 2, 169–188]. *Journal of the Society for Industrial and Applied Mathematics*, 10(3):567, September 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [214].

**deSanto:1962:NST**

- [297] Daniel F. de Santo and Herbert B. Keller. Numerical studies of transition from laminar to turbulent flow over a flat plate. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):569–595, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reiss:1962:SBT**

- [298] Edward L. Reiss. Symmetric bending of thick circular plates. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):596–609, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lees:1962:ADM**

- [299] Milton Lees. Alternating direction methods for hyperbolic differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):

610–616, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Atta:1962:NEN**

- [300] Susie E. Atta and John A. Harvey. Numerical estimation of neutron resonance parameters. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):617–631, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cord:1962:PCS**

- [301] Marian S. Cord and Richard J. Sylvester. The property of cross-symmetry. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):632–637, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Jones:1962:SSI**

- [302] E. E. Jones. Some solutions of an internal-external problem of the third type for a circle. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):638–656, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**McAuley:1962:MRC**

- [303] Van A. McAuley. A method for the real and complex roots of a polynomial. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):657–667, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reid:1962:FVC**

- [304] Walter P. Reid. Free vibrations of a circular plate. *Journal of the Society for*

*Industrial and Applied Mathematics*, 10(4):668–674, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Petryshyn:1962:GOM**

- [305] W. V. Petryshyn. The generalized over-relaxation method for the approximate solution of operator equations in Hilbert space. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):675–690, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Takacs:1962:CMT**

- [306] Lajos Takacs. A combinatorial method in the theory of queues. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):691–694, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tang:1962:RPB**

- [307] C. L. Tang. On the radiation pattern of a base-driven antenna over a circular conducting screen. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):695–708, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [397].

**Curtiss:1962:IHP**

- [308] J. H. Curtiss. Interpolation by harmonic polynomials. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):709–736, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Chern:1962:GQD**

- [309] Shiing-Shen Chern. Geometry of a quadratic differential form. *Journal of*

*the Society for Industrial and Applied Mathematics*, 10(4):751–755, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**McVittie:1962:CCT**

- [310] G. C. McVittie. The cosmical constant and the time-scale. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):756–767, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Mathews:1962:GMR**

- [311] Jon Mathews. Gravitational multipole radiation. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):768–780, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sandage:1962:OTW**

- [312] Allan Sandage. Observational tests of world models. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):781–794, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Schiff:1962:GRT**

- [313] L. I. Schiff. General relativity: Theory and experiment. *Journal of the Society for Industrial and Applied Mathematics*, 10(4):795–801, December 1962. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Konheim:1963:GCT**

- [314] Alan G. Konheim. A geometric convergence theorem for the perceptron. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):1–14, March

1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rice:1963:ACC**

- [315] J. R. Rice. Approximation with convex constraints. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):15–32, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bather:1963:ORD**

- [316] J. A. Bather. The optimal regulation of dams in continuous time. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):33–63, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Barlow:1963:ORW**

- [317] Richard E. Barlow, Larry C. Hunter, and Frank Proschan. Optimum redundancy when components are subject to two kinds of failure. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):64–73, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Stone:1963:MBE**

- [318] Jeremy J. Stone. Multiple-burst error correction with the Chinese Remainder Theorem. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):74–81, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Williams:1963:MVL**

- [319] A. C. Williams. Marginal values in linear programming. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):82–94, March 1963. CO-

DEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ruiz:1963:UCC**

**Ahlberg:1963:CPS**

- [320] J. H. Ahlberg and E. N. Nilson. Convergence properties of the spline fit. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):95–104, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Erdelyi:1963:SPB**

- [321] A. Erdélyi. Singular perturbations of boundary value problems involving ordinary differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):105–116, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Berman:1963:DSS**

- [322] Gerald Berman and C. H. Cook. Determination of the stable states of active linear systems with  $n$  parameters. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):117–134, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hakimi:1963:RSI**

- [323] S. L. Hakimi. On realizability of a set of integers as degrees of the vertices of a linear graph II. uniqueness. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):135–147, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See note [467].

- [324] Albert L. Ruiz. Unstable characteristics of a class of functions defined by a linear differential equation with periodic coefficients. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):148–158, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**deBoor:1963:CAA**

- [325] Carl de Boor and John R. Rice. Chebyshev approximation by  $a \prod \frac{x-r_i}{x+s_i}$  and application to Adi iteration. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):159–169, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Guderley:1963:ESE**

- [326] K. G. Guderley and Mary D. Lum. On the evaluation of strongly enlarged photographs. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):170–182, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dulmage:1963:TAB**

- [327] A. L. Dulmage and N. S. Mendelsohn. Two algorithms for bipartite graphs. *Journal of the Society for Industrial and Applied Mathematics*, 11(1):183–194, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Douglas:1963:PCM**

- [328] Jim Douglas, Jr. and B. F. Jones, Jr. On predictor-corrector methods for nonlinear parabolic differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 11

(1):195–204, March 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wolfe:1963:TRD**

- [329] Philip Wolfe. A technique for resolving degeneracy in linear programming. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):205–211, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Samson:1963:TBFa**

- [330] E. W. Samson and L. Calabi. On the theory of Boolean formulas: Minimal including sums, I. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):212–223, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Samson:1963:TBFb**

- [331] E. W. Samson and L. Calabi. On the theory of Boolean formulas: Minimal including sums, II. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):224–234, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kelly:1963:SRM**

- [332] E. J. Kelly, D. H. Lyons, and W. L. Root. The sensitivity of radiometric measurements. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):235–257, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Harrison:1963:DSM**

- [333] B. Kent Harrison. A discussion of some mathematical techniques used in Kron's

method of tearing. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):258–280, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Henrici:1963:BEC**

- [334] Peter Henrici. Bounds for eigenvalues of certain tridiagonal matrices. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):281–290, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [440].

**Karp:1963:FDS**

- [335] Richard M. Karp. Functional decomposition and switching circuit design. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):291–335, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Imhof:1963:RQF**

- [336] J. P. Imhof. Remarks on quadrature formulas. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):336–341, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Aissen:1963:QDA**

- [337] Michael I. Aissen. Quasi-dimensional analysis and approximation formulae. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):342–354, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Srinivasan:1963:KME**

- [338] S. K. Srinivasan. On Katz' model for emulsion polymerization. *Journal of the*

*Society for Industrial and Applied Mathematics*, 11(2):355–359, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gersch:1963:MSC**

- [339] Will Gersch and Robert Ash. Multiple signal counting. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):360–397, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cameron:1963:ANM**

- [340] I. G. Cameron. The application of the Von Neumann method to a steady one-dimensional detonation wave. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):398–412, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Stern:1963:UNT**

- [341] M. Stern and M. Stippes. A unified numerical treatment for vibrating beams. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):413–420, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Roos:1963:ASE**

- [342] B. W. Roos and W. C. Sangren. Asymptotic solutions and an equiconvergence theorem for a pair of first-order differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):421–430, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Marquardt:1963:ALS**

- [343] Donald W. Marquardt. An algorithm for least-squares estimation of nonlinear parameters. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):431–441, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Desoer:1963:NP**

- [344] C. A. Desoer and B. H. Whalen. A note on pseudoinverses. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):442–447, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hansen:1963:CJM**

- [345] Eldon R. Hansen. On cyclic Jacobi methods. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):448–459, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brown:1963:SRJ**

- [346] William M. Brown. Sampling with random jitter. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):460–473, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Buchanan:1963:NSCa**

- [347] Mary Louise Buchanan. A necessary and sufficient condition for stability of difference schemes for second-order initial value problems. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):474–501, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Neuts:1963:MSG**

- [348] Marcel F. Neuts. A multistage search game. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):502–507, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Grau:1963:GBP**

- [349] A. A. Grau. A generalization of the Bairstow process. *Journal of the Society for Industrial and Applied Mathematics*, 11(2):508–519, June 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Calabi:1963:TBF**

- [350] L. Calabi. On the theory of Boolean formulas: Construction of the set of the formulas of minimal cost. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):521–525, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**John:1963:SSQ**

- [351] Floyd I. John. Single server queues with dependent service and inter-arrival times. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):526–534, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sinden:1963:DCP**

- [352] Frank W. Sinden. Duality in convex programming and in projective space. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):535–552, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Haseltine:1963:ETNa**

- [353] W. R. Haseltine. Existence theorems for nonlinear ballistics. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):553–563, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [439].

**Landau:1963:AAS**

- [354] H. G. Landau. The accuracy of the analog solution of heat conduction problems. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):564–578, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Warga:1963:CPC**

- [355] J. Warga. A convergent procedure for convex programming. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):579–587, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Warga:1963:MCC**

- [356] J. Warga. Minimizing certain convex functions. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):588–593, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Warga:1963:CPS**

- [357] J. Warga. A convergent procedure for solving the thermo-chemical equilibrium problem. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):594–606, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gurtin:1963:RTL**

- [358] M. E. Gurtin and Eli Sternberg. A reciprocal theorem in the linear theory of anisotropic viscoelastic solids. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):607–613, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Thacher:1963:NID**

- [359] Henry C. Thacher, Jr. Numerical integration and differentiation of functions of several independent variables by an iterative procedure. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):614–622, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Nowinski:1963:MVT**

- [360] J. L. Nowinski. A mean value theorem for an arbitrary steady-state thermoelastic problem for a solid sphere. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):623–631, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wilkins:1963:DIS**

- [361] J. Ernest Wilkins, Jr. Diffusion in an infinite or semi-infinite medium whose diffusion coefficient depends linearly on the concentration. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):632–644, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Duffin:1963:DRM**

- [362] R. J. Duffin and D. Hazony. The degree of a rational matrix function. *Journal of the Society for Industrial and Applied*

*Mathematics*, 11(3):645–658, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Struble:1963:DDP**

- [363] Raimond A. Struble. A discussion of the Duffing problem. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):659–666, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ben-Israel:1963:CTG**

- [364] A. Ben-Israel and A. Charnes. Contributions to the theory of generalized inverses. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):667–699, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Krall:1963:CER**

- [365] Allan M. Krall. A closed expression for the root locus method. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):700–704, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lehmer:1963:CRS**

- [366] D. H. Lehmer. The complete root-squaring method. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):705–717, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Morrison:1963:ESP**

- [367] J. A. Morrison. The exact solution to a planar orbit problem. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):718–731, September



1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Mattson:1963:NAF**

- [368] H. F. Mattson. A note on the ambiguity function. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):732–736, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Descloux:1963:NCP**

- [369] Jean Descloux. Note on convex programming. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):737–747, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Olver:1963:EBF**

- [370] F. W. J. Olver. Error bounds for first approximations in turning-point problems. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):748–772, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lehman:1963:WDT**

- [371] Alfred Lehman. Wye-delta transformation in probabilistic networks. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):773–805, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Harrison:1963:NTS**

- [372] Michael A. Harrison. The number of transitivity sets of Boolean functions. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):806–828, September 1963. CODEN JSI-

MAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Vinti:1963:ESC**

- [373] John P. Vinti and Tadeusz Leser. Errata: “The Sums of Certain Series Involving Bessel Functions” [J. SIAM **5** (1957), no. 1, 15–31]. *Journal of the Society for Industrial and Applied Mathematics*, 11(3):829, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [58].

**Hammersley:1963:PFB**

- [374] J. M. Hammersley and R. S. Walters. Percolation and fractional branching processes. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):831–839, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reiss:1963:EIP**

- [375] Edward L. Reiss. Extension of an infinite plate with a circular hole. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):840–854, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Witzgall:1963:AIP**

- [376] Christoph Witzgall. An all-integer programming algorithm with parabolic constraints. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):855–871, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Jewell:1963:MET**

- [377] William S. Jewell. Multiple entries in traffic. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):

872–885, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Higgins:1963:IIG**

- [378] Theodore P. Higgins. An inversion integral for a Gegenbauer transformation. *Journal of the Society for Industrial and Applied Mathematics*, 11(4): 886–893, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Frisch:1963:PPR**

- [379] H. L. Frisch and J. M. Hammersley. Percolation processes and related topics. *Journal of the Society for Industrial and Applied Mathematics*, 11(4): 894–918, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Buchanan:1963:NSCb**

- [380] Mary Louise Buchanan. A necessary and sufficient condition for stability of difference schemes for initial value problems. *Journal of the Society for Industrial and Applied Mathematics*, 11(4): 919–935, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Petrich:1963:NOS**

- [381] Mario Petrich. On the number of orthogonal signals which can be placed in a WT-product. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):936–940, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Siekmann:1963:ARA**

- [382] J. Siekmann. Analysis of ring aerofoils of elliptic cross section: Part I: General theory. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):941–963, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Thomee:1963:PCT**

- [383] Vidar Thomee. A predictor-corrector type scheme for the mixed boundary problem for a hyperbolic first-order system in two dimensions. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):964–975, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kellogg:1963:AAD**

- [384] R. B. Kellogg. Another alternating-direction-implicit method. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):976–979, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Weisfeld:1963:PON**

- [385] Morris Weisfeld. Polar orbits of near Earth satellites. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):980–993, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wachspress:1963:EAA**

- [386] Eugene L. Wachspress. Extended application of alternating direction implicit iteration model problem theory. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):994–1016, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Descloux:1963:ACA**

- [387] Jean Descloux. Approximations in  $L^p$  and Chebyshev approximations. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1017–1026, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Carlson:1963:NME**

- [388] David Carlson. A note on  $M$ -matrix equations. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1027–1033, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dulmage:1963:CEI**

- [389] A. L. Dulmage and N. S. Mendelsohn. The characteristic equation of an imprimitive matrix. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1034–1045, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Griffin:1963:NSP**

- [390] D. S. Griffin and R. S. Varga. Numerical solution of plane elasticity problems. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1046–1062, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See remark [555].

**Kelly:1963:QPR**

- [391] R. J. Kelly and W. A. Thompson, Jr. Quadratic programming in real Hilbert spaces. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1063–1070, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Haseltine:1963:ETNb**

- [392] William R. Haseltine. Existence theorems for nonlinear ballistics part II: Effect of gravity. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1071–1077, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Barlow:1963:OCP**

- [393] Richard E. Barlow, Larry C. Hunter, and Frank Proschan. Optimum checking procedures. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1078–1095, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Clarke:1963:CBL**

- [394] S. Clarke, A. Krikorian, and J. Rausen. Computing the  $N$  best loopless paths in a network. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1096–1102, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dulmage:1963:RSO**

- [395] A. L. Dulmage and N. S. Mendelsohn. Remarks on solutions of the optimal assignment problem. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1103–1109, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Keller:1963:FAN**

- [396] Joseph B. Keller. The field of an antenna near the center of a large circular disk. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1110–1112, December 1963. CODEN

JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tang:1963:ERP**

- [397] C. L. Tang. Errata: “On the Radiation Pattern of a Base-Driven Antenna Over a Circular Conducting Screen” [J. SIAM **10** (1962), no. 4, 695–708]. *Journal of the Society for Industrial and Applied Mathematics*, 11(4):1113, December 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [307].

**Hockney:1964:SLE**

- [398] R. W. Hockney. A solution of Laplace’s equation for a round hole in a square peg. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):1–14, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Erdelyi:1964:IEI**

- [399] A. Erdélyi. An integral equation involving Legendre functions. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):15–30, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Heller:1964:LPE**

- [400] I. Heller. On linear programs equivalent to the transportation program. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):31–42, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Jones:1964:FID**

- [401] G. Stephen Jones. Fundamental inequalities for discrete and discontinuous functional equations. *Journal of the Society*

*for Industrial and Applied Mathematics*, 12(1):43–57, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hochstadt:1964:SCS**

- [402] Harry Hochstadt. On the stability of certain second order differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):58–59, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Putzer:1964:CSN**

- [403] Eugene J. Putzer. On certain systems of nonlinear differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):60–73, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Shah:1964:SAM**

- [404] B. V. Shah, R. J. Buehler, and O. Kempthorne. Some algorithms for minimizing a function of several variables. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):74–92, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pierre:1964:RFA**

- [405] Donald A. Pierre. A rational fraction approximation formula for  $\exp[-(sD)^{1/2}]$  with applications. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):93–104, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bramble:1964:SMV**

- [406] J. H. Bramble and L. E. Payne. Some mean value theorems in elastostatics. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):105–114, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Turyn:1964:LGL**

- [407] Richard J. Turyn. The linear generation of the Legendre sequence. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):115–116, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Campbell:1964:CST**

- [408] L. L. Campbell. A comparison of the sampling theorems of Kramer and Whitaker. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):117–130, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Harper:1964:OAN**

- [409] L. H. Harper. Optimal assignments of numbers to vertices. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):131–135, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Heaslet:1964:TDC**

- [410] Max A. Heaslet and Franklyn B. Fuller. Temperature distribution on conducting cylindrical shells including the effects of thermal radiation. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):136–155, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rosen:1964:MBS**

- [411] J. B. Rosen. Minimum and basic solutions to singular linear systems. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):156–162, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Aziz:1964:BSS**

- [412] A. K. Aziz and B. E. Hubbard. Bounds for the solution of the Sturm–Liouville problem with application to finite difference methods. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):163–178, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Neuts:1964:IMO**

- [413] Marcel F. Neuts. An inventory model with an optional time lag. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):179–185, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fleischer:1964:OR**

- [414] I. Fleischer and A. Kooharian. Optimization and recursion. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):186–188, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Thompson:1964:DAI**

- [415] Robert J. Thompson. Difference approximations for inhomogeneous and quasi-linear equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):189–199, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Olver:1964:EBA**

- [416] F. W. J. Olver. Error bounds for asymptotic expansions in turning-point problems. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):200–214, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rockafellar:1964:CAL**

- [417] R. T. Rockafellar. A combinatorial algorithm for linear programs in the general mixed form. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):215–225, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fan:1964:OMF**

- [418] Liang-Tseng Fan and Chiu-Sen Wang. On the optimization of multistage feedback processes. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):226–232, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cannon:1964:NSD**

- [419] J. R. Cannon. The numerical solution of the Dirichlet problem for Laplace's equation by linear programming. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):233–237, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kaiser:1964:MDE**

- [420] Henry F. Kaiser. A method for determining eigenvalues. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):238–248, March 1964. CO-

DEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kolodner:1964:FOO**

- [421] I. I. Kolodner, J. Lehner, and G. M. Wing. On first order ordinary differential equations arising in diffusion problems. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):249–269, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cannon:1964:EES**

- [422] J. R. Cannon. Error estimates for some unstable continuation problems. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):270–284, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Harrison:1964:CBF**

- [423] Michael A. Harrison. On the classification of Boolean functions by the general linear and affine groups. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):285–299, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Moeller:1964:SIT**

- [424] J. W. Moeller. Signals impervious to time limited noise. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):300–310, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tee:1964:NTS**

- [425] G. J. Tee. A new technique for solving elliptic partial differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 12

(2):311–347, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gomory:1964:SCN**

- [426] R. E. Gomory and T. C. Hu. Synthesis of a communication network. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):348–369, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Inselmann:1964:HTG**

- [427] Edmund H. Inselmann. Hypothesis testing of Gaussian processes with composite alternatives. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):370–385, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Newman:1964:NAD**

- [428] Malcolm Newman and Edward L. Reiss. Nonlinear axisymmetric deformations of conical shells. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):386–402, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sih:1964:FSR**

- [429] G. C. Sih. Fracture strength of a rectangular beam with surface cracks. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):403–412, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lemke:1964:EPB**

- [430] C. E. Lemke and J. T. Howson, Jr. Equilibrium points of bimatrix games. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):413–423, June

1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kizner:1964:NMF**

- [431] William Kizner. A numerical method for finding solutions of nonlinear equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):424–428, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Crout:1964:MCM**

- [432] Prescott D. Crout. A method for combining mixed data on position and acceleration in estimating velocities. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):429–445, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hanson:1964:DSD**

- [433] M. A. Hanson. Duality and self-duality in mathematical programming. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):446–449, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Efron:1964:OEV**

- [434] Bradley Efron. Optimum evasion versus systematic search. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):450–457, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lindsey:1964:IIC**

- [435] William C. Lindsey. Infinite integrals containing Bessel function products. *Journal of the Society for Industrial and Applied Mathematics*, 12

(2):458–464, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**deSilva:1964:ETS**

- [436] C. N. de Silva. The effect of transverse shear deformation on the bending of elliptic toroidal shells. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):465–476, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pierce:1964:PBF**

- [437] William H. Pierce. Probability bounds in finite-state transition chains. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):477–486, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sandberg:1964:SSL**

- [438] I. W. Sandberg. On the stability of solutions of linear differential equations with periodic coefficients. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):487–496, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Haseltine:1964:EET**

- [439] W. R. Haseltine. Errata: “Existence Theorems for Nonlinear Ballistics” [J. SIAM **11** (1963), no. 3, 553–563]. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):497, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [353].

**Henrici:1964:EBE**

- [440] Peter Henrici. Errata: “Bounds for Eigenvalues of Certain Tridiagonal Ma-

trices” [J. SIAM **11** (1963), no. 2, 281–290]. *Journal of the Society for Industrial and Applied Mathematics*, 12(2):497, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [334].

**Sobczyk:1964:CNC**

- [441] Andrew Sobczyk. On the curtiss non-singularity condition in harmonic polynomial interpolation. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):499–514, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Trench:1964:AIF**

- [442] William F. Trench. An algorithm for the inversion of finite Toeplitz matrices. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):515–522, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Aggarwal:1964:Z**

- [443] H. R. Aggarwal. On the zeros of  $kz^2K'_n(kz)K'_n(z) - n^2K_n(kz)K_n(z)$ . *Journal of the Society for Industrial and Applied Mathematics*, 12(3):523–525, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Dolezal:1964:LEE**

- [444] Vaclav Dolezal. The location of eigenfrequencies of electrical networks. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):526–538, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).



**Bazer:1964:MSO**

- [445] J. Bazer. Multiple scattering in one dimension. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):539–579, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cochran:1964:RZC**

- [446] James Alan Cochran. Remarks on the zeros of cross-product Bessel functions. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):580–587, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cline:1964:RGI**

- [447] Randall E. Cline. Representations for the generalized inverse of a partitioned matrix. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):588–600, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Higgins:1964:HFT**

- [448] Theodore P. Higgins. A hypergeometric function transform. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):601–612, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Boyce:1964:RTV**

- [449] William E. Boyce and Bruce E. Goodwin. Random transverse vibrations of elastic beams. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):613–629, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kurowski:1964:GST**

- [450] G. J. Kurowski. On the general solution of the three-dimensional viscoelastic Navier's equations for commutative systems. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):630–633, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Stoer:1964:CHN**

- [451] Josef Stoer. A characterization of Hölder norms. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):634–648, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wah:1964:CSV**

- [452] Thein Wah. Circular symmetric vibrations of ring-stiffened cylindrical shells. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):649–662, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Cottle:1964:NFT**

- [453] Richard W. Cottle. Note on a fundamental theorem in quadratic programming. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):663–665, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Erdogan:1964:SSD**

- [454] F. Erdogan and L. Y. Bahar. On the solution of simultaneous dual integral equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):666–675, September 1964. CODEN

JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Chen:1964:IMF**

- [455] Wai-Kai Chen. The inversion of matrices by flow graphs. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):676–685, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lehman:1964:SSS**

- [456] Alfred Lehman. A solution of the Shannon switching game. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):687–725, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sawhney:1964:CER**

- [457] Mathura D. Sawhney. The computation of eigenvalues. I. real symmetric matrices. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):726–733, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tainiter:1964:SCP**

- [458] Melvin Tainiter. On stochastic counting processes associated with a semi-Markov process. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):734–744, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wachman:1964:TPB**

- [459] Murray Wachman. On the two point boundary value problem, with application to celestial mechanics. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):745–771, December

1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**McAllister:1964:SNE**

- [460] G. T. McAllister. Some nonlinear elliptic partial differential equations and difference equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):772–777, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Mangasarian:1964:EPB**

- [461] O. L. Mangasarian. Equilibrium points of bimatrix games. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):778–780, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Butler:1964:LMG**

- [462] Terence Butler. Lagrange multipliers and the geometry of Hilbert space. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):781–793, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hanan:1964:CCM**

- [463] M. Hanan and F. P. Palermo. On cyclic codes for multi-phase data transmission systems. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):794–804, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gurtin:1964:NFC**

- [464] M. E. Gurtin. A note on functionals continuous with respect to an operator. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):

805–806, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ehrlich:1964:BSS**

- [465] Louis W. Ehrlich. The block symmetric successive overrelaxation method. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):807–826, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rau:1964:RTS**

- [466] John G. Rau. Redundancy and trichotomous systems. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):827–837, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bottger:1964:NPH**

- [467] G. Bottger and H. Harders. Note on a problem by S. L. Hakimi concerning planar graphs without parallel elements [J. SIAM **11** (1963), no. 1, 135–147]. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):838–839, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See [323].

**Zahn:1964:ASR**

- [468] C. T. Zahn, Jr. Approximation symmetric relations by equivalence relations. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):840–847, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kellogg:1964:ADM**

- [469] R. B. Kellogg. An alternating direction method for operator equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):848–854, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pinkham:1964:RRL**

- [470] R. S. Pinkham. Random root location. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):855–864, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Duris:1964:RLM**

- [471] C. S. Duris. A Riemann-like method for solving hyperbolic difference equations. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):865–872, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pinney:1964:SVM**

- [472] Edmund Pinney. The Schwinger variation method. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):873–885, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Traub:1964:LHI**

- [473] J. F. Traub. On Lagrange-Hermite interpolation. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):886–891, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**deBoor:1964:TPC**

- [474] Carl de Boor and John R. Rice. Tensor products and commutative matrices. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):892–896, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Roos:1964:SRF**

- [475] B. W. Roos. Successive recurrence functions and the partition of finite measure spaces. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):897–898, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Conner:1964:EPA**

- [476] Howard E. Conner. Extinction probabilities for age- and position-dependent branching processes. *Journal of the Society for Industrial and Applied Mathematics*, 12(4):899–909, December 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fiedler:1965:SEP**

- [477] Miroslav Fiedler. Some estimates of the proper values of matrices. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):1–5, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Heinbockel:1965:EPS**

- [478] J. H. Heinbockel and R. A. Struble. The existence of periodic solutions of nonlinear oscillators. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):6–36, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brown:1965:OPS**

- [479] Lawrence Brown. Optimal policies for a sequential decision process. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):37–46, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sack:1965:ILE**

- [480] R. A. Sack. Interpretation of Lagrange's expansion and its generalization to several variables as integration formulas. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):47–59, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Wurtele:1965:PPR**

- [481] Zivia S. Wurtele. A problem in pattern recognition. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):60–67, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Carrier:1965:AAT**

- [482] George F. Carrier. Analytic approximation techniques in applied mathematics. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):68–95, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Morrison:1965:AMA**

- [483] J. A. Morrison. Application of the method of averaging to planar orbit problems. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):96–117, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lucas:1965:SFP**

- [484] William F. Lucas. Solutions for four-person games in partition function form. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):118–128, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Shapiro:1965:DAA**

- [485] Jesse M. Shapiro. Domains of attraction for absolute values of random variables. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):129–135, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kyner:1965:MTO**

- [486] W. T. Kyner. A mathematical theory of the orbits about an oblate planet. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):136–171, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sears:1965:SRT**

- [487] W. R. Sears. Some recollections of Theodore Von Karman. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):174–183, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Burgers:1965:TML**

- [488] J. M. Burgers. The transportation of magnetic lines of force by a highly conducting fluid. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):184–205, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Crocco:1965:TBL**

- [489] Luigi Crocco. Turbulent boundary layer and mixing coefficient. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):206–215, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Erdelyi:1965:ASP**

- [490] A. Erdélyi. Axially symmetric potentials and fractional integration. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):216–228, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ferri:1965:MPS**

- [491] Antonio Ferri, Gino Moretti, and Simon Slutsky. Mixing processes in supersonic combustion. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):229–258, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Grad:1965:BE**

- [492] Harold Grad. On Boltzmann's  $H$ -theorem. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):259–277, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lees:1965:KTD**

- [493] Lester Lees. Kinetic theory description of rarefied gas flow. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):278–311, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Prager:1965:MPT**

- [494] William Prager. Mathematical programming and theory of structures. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):312–332, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reissner:1965:RSE**

- [495] E. Reissner and F. Y. M. Wan. Rotating shallow elastic shells of revolution. *Journal of the Society for Industrial and Applied Mathematics*, 13(1):333–352, March 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Shapiro:1965:MAL**

- [496] N. Z. Shapiro and L. S. Shapley. Mass action laws and the Gibbs free energy function. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):353–375, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gilbert:1965:RMT**

- [497] E. N. Gilbert. Random minimal trees. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):376–387, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Mullikin:1965:NIE**

- [498] T. W. Mullikin. A nonlinear integrodifferential equation in radiative transfer. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):388–410, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Yoeli:1965:LOS**

- [499] Michael Yoeli. Lattice-ordered semigroups, graphs, and automata. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):411–422, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sreedharan:1965:SPD**

- [500] V. P. Sreedharan. A short proof of the duality theorem of linear programming. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):423–424, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Heinbockel:1965:PSD**

- [501] J. H. Heinbockel and R. A. Struble. Periodic solutions for differential systems with symmetries. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):425–440, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Steiglitz:1965:OBC**

- [502] K. Steiglitz and A. J. Bernstein. Optimal binary coding of ordered numbers. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):441–443, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Birnbaum:1965:MCB**

- [503] Z. W. Birnbaum and J. D. Esary. Modules of coherent binary systems. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):444–462, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Zemnian:1965:CIL**

- [504] A. H. Zemnian. A characterization of the inverse Laplace transforms of rational positive-real matrices. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):463–468, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Carlitz:1965:SMS**

- [505] L. Carlitz. Some multiple sums and binomial identities. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):469–486, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kane:1965:DEM**

- [506] T. R. Kane and C. F. Wang. On the derivation of equations of motion. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):487–492, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Chen:1965:MFG**

- [507] Wai-Kai Chen. On the modifications of flow graphs. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):493–505, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Moon:1965:DCR**

- [508] J. W. Moon. On the distribution of crossings in random complete graphs. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):506–510, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See erratum [558].

**Pomraning:1965:VPL**

- [509] G. C. Pomraning. A variational principle for linear systems. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):511–519, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kalman:1965:IRD**

- [510] R. E. Kalman. Irreducible realizations and the degree of a rational matrix. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):520–544, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Brannen:1965:IMO**

- [511] J. P. Brannen. An iterative method for optimizing expectations. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):545–554, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Smiley:1965:LST**

- [512] M. F. Smiley. Langenhop's stabilization theorem. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):555–557, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bazer:1965:DEW**

- [513] J. Bazer and L. Rubinfeld. Diffraction of electromagnetic waves by a circular aperture in an infinitely conducting plane screen. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):558–585, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sylvester:1965:TPB**

- [514] R. J. Sylvester and F. Meyer. Two point boundary problems by quasilinearization. *Journal of the Society for Industrial and Applied Mathematics*, 13(2):586–602, June 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bauer:1965:NBR**

- [515] Louis Bauer and Edward L. Reiss. Nonlinear buckling of rectangular plates. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):603–626, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Coles:1965:MRD**

- [516] W. J. Coles. Matrix Riccati differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):627–634, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Banks:1965:SIF**

- [517] Dallas O. Banks. Some inequalities for the fundamental frequency of a nonhomogeneous membrane. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):635–638, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Hobart:1965:ASC**

- [518] R. Hobart. An analytical solution to a class of nonlinear differential-difference equations. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):639–643, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Tyndall:1965:DTC**

- [519] William F. Tyndall. A duality theorem for a class of continuous linear programming problems. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):644–666, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Gordon:1965:NDE**

- [520] Paul Gordon. Nonsymmetric difference equations. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):667–673, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Keller:1965:NES**

- [521] Herbert B. Keller and Antoinette W. Wolfe. On the nonunique equilibrium states and buckling mechanism of spherical shells. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):674–705, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sakrison:1965:ESC**

- [522] David J. Sakrison. Estimation of signals containing unknown parameters: Comparison of linear and arbitrary unbiased estimates. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):706–719, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Weiss:1965:ADL**

- [523] Lionel Weiss. On the asymptotic distribution of the largest sample spacing. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):



720–731, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Kreith:1965:EOP**

- [524] Kurt Kreith. Elliptic operators with a purely continuous spectrum. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):732–739, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ponzo:1965:CRO**

- [525] Peter J. Ponzo and Nelson Wax. On certain relaxation oscillations: Asymptotic solutions. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):740–766, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Holt:1965:IIR**

- [526] John M. Holt. Integral inequalities related to non-oscillation theorems for differential equations. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):767–794, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ferguson:1965:BSW**

- [527] Thomas S. Ferguson. Betting systems which minimize the probability of ruin. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):795–818, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Davisson:1965:PTS**

- [528] L. D. Davisson. Prediction of time series from finite past. *Journal of the Society for Industrial and Applied Mathematics*,

13(3):819–826, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Ijiri:1965:GII**

- [529] Yuji Ijiri. On the generalized inverse of an incidence matrix. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):827–836, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reid:1965:EEP**

- [530] J. K. Reid and J. E. Walsh. An elliptic eigenvalue problem for a reentrant region. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):837–850, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Schindler:1965:GSA**

- [531] G. M. Schindler. On the geometric shape of axial-symmetric shock waves from a point source explosion in a nonhomogeneous medium. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):851–863, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Reiter:1965:DO**

- [532] Stanley Reiter and Gordon Sherman. Discrete optimizing. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):864–889, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Oliver:1965:POP**

- [533] Robert M. Oliver and Gerold Pestalozzi. On a problem of optimum priority classification. *Journal of the Society for*

*Industrial and Applied Mathematics*, 13(3):890–901, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bollman:1965:SPP**

- [534] Dorothy A. Bollman. Some periodicity properties of transformations on vector spaces over residue class rings. *Journal of the Society for Industrial and Applied Mathematics*, 13(3):902–912, September 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Sack:1965:GLE**

- [535] R. A. Sack. Generalization of Lagrange’s expansion for functions of several implicitly defined variables. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):913–926, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Williams:1965:SLP**

- [536] A. C. Williams. On stochastic linear programming. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):927–940, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic). See errata [557].

**Jones:1965:LSC**

- [537] John Jones, Jr. On the Lyapunov stability criteria. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):941–945, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Klee:1965:PP**

- [538] Victor Klee. Paths on polyhedra. I. *Journal of the Society for Industrial*

*and Applied Mathematics*, 13(4):946–956, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Fairweather:1965:NAD**

- [539] G. Fairweather and A. R. Mitchell. A new alternating direction method for parabolic equations in three space variables. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):957–965, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Konheim:1965:SWT**

- [540] Alan G. Konheim. The stationary waiting time distribution for a single-server queue. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):966–976, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Soong:1965:PSL**

- [541] T. T. Soong. On perturbation solutions to linear system dynamics — I. convergence. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):977–987, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**McFadden:1965:EPP**

- [542] J. A. McFadden. The entropy of a point process. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):988–994, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Lynch:1965:TPA**

- [543] Robert E. Lynch, John R. Rice, and Donald H. Thomas. Tensor product analysis of alternating direction implicit methods. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):995–1006, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Antman:1965:DSC**

- [544] Stuart Antman and William H. Warner. Dynamic stability of circular rods. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1007–1018, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Schumitzky:1965:MPO**

- [545] Alan Schumitzky. Modulation products and optimum frequency conversion for an  $n$ -frequency input. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1019–1032, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Rohde:1965:GIP**

- [546] Charles A. Rohde. Generalized inverses of partitioned matrices. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1033–1035, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Konig:1965:NSC**

- [547] Heinz Konig and Armen H. Zemanian. Necessary and sufficient conditions for a matrix distribution to have a positive-real Laplace transform. *Journal of the Society for Industrial and Applied*

*Mathematics*, 13(4):1036–1040, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Windholz:1965:ASS**

- [548] Walter M. Windholz. Approximate solutions for some elasticity problems. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1041–1049, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Forsythe:1965:SVS**

- [549] George E. Forsythe and Gene H. Golub. On the stationary values of a second-degree polynomial on the unit sphere. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1050–1068, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Waltmann:1965:AT**

- [550] William L. Waltmann and Robert J. Lambert.  $T$ -algorithm for tridiagonalization. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1069–1078, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Pollack:1965:JPM**

- [551] Maurice Pollack. The jeep problem: The maximum rate of delivery. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1079–1086, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Posner:1965:SEC**

- [552] Edward C. Posner. Simultaneous error-correction and burst-error detection us-

ing binary linear cyclic codes. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1087–1095, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Weiner:1965:GIT**

- [553] Howard J. Weiner. The gradient iteration in time series analysis. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1096–1101, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Trench:1965:AIF**

- [554] William F. Trench. An algorithm for the inversion of finite Hankel matrices. *Journal of the Society for Industrial and Applied Mathematics*, 13(4):1102–1107, December 1965. CODEN JSIMAV. ISSN 0368-4245 (print), 1095-712X (electronic).

**Bueckner:1966:RPD**

- [555] Hans F. Bueckner. Remark on a paper by D. S. Griffin and R. S. Varga “Numerical Solution of Plane Elasticity Problems” [J. SIAM **11** (1963), no. 4, 1046–1062]. *SIAM Journal on Applied Mathematics*, 14(2):414, March 1966. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [390].

**McKenna:1967:NAE**

- [556] James McKenna. Note on “Asymptotic Expansions of Fourier Integrals Involving Logarithmic Singularities” [J. SIAM **4** (1956), no. 1, 38–47], by A. Erdélyi. *SIAM Journal on Applied Mathematics*, 15(4):810–812, July 1967. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [45].

**Williams:1967:ESL**

- [557] A. C. Williams. Errata: “On Stochastic Linear Programming” [J. SIAM **13** (1965), no. 4, 927–940]. *SIAM Journal on Applied Mathematics*, 15(1):228, January 1967. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [536].

**Moon:1977:EDC**

- [558] J. W. Moon. Erratum: “On the Distribution of Crossings in Random Complete Graphs” [J. SIAM **13** (1965), no. 2, 506–510]. *SIAM Journal on Applied Mathematics*, 32(3):706, May 1977. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [508].