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Title word cross-reference	288-293 [282, 270]. 4 [556]. 5 [373]. $*ab^x + c$ [196]. $ab^x + c$ [245]. $a \prod \frac{x-r_i}{x+s_i}$ [325]. $Ax = \lambda Bx$ [222, 270]. $\Delta u = u^2$ [142]. $\exp[-(sD)^{1/2}]$ [405]. $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = \frac{\partial u}{\partial t}$ [27]. 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 [394, 294, 187, 161, 322, 545, 96]. p^m [217]. T [550]. τ [39]. $x'' + cx' + g(x) = Ef(t)$ [151]. -Algorithm [146, 550]. -Body [187]. -Frequency [545]. -Matrix [388]. -Method [39]. -Person [161]. -Theorem [492]. 10 [397]. 11 [467, 555, 439, 440]. 13 [91, 558, 557].
	Absolute [485, 191]. Accelerating [237]. Acceleration [432, 94]. Accuracy [354]. Accurate [167]. Action [496]. Active [234, 322]. Adapted [111]. Additions [141]. Additive [119]. Adi [325]. Adjoint [82].

Aerofoils [382]. **Affine** [423]. **Age** [476]. **Age-** [476]. **Aircraft** [183]. **Akad** [91]. **Algebraic** [140]. **Algorithm** [205, 146, 91, 343, 116, 417, 442, 554, 550, 376]. **Algorithms** [327, 275, 175, 59, 245, 404]. **Alias** [158]. **Alias-Free** [158]. **All-Integer** [376]. **Allocation** [33, 286]. **Almost** [243]. **Alternating** [539, 154, 384, 469, 299, 543, 172, 278, 386]. **Alternating-Direction-Implicit** [384, 172, 278]. **Alternatives** [427]. **Ambiguity** [368]. **Analog** [354]. **Analogue** [147]. **Analysis** [337, 152, 70, 261, 14, 136, 543, 382, 553, 267]. **Analytic** [482]. **Analytical** [518, 187]. **Anisotropic** [358]. **Annihilation** [118]. **Annulus** [62]. **Antena** [396]. **Antenna** [307, 397]. **Aperture** [513]. **Application** [412, 117, 340, 228, 273, 77, 483, 75, 221, 459, 386, 325]. **Applications** [136, 150, 255, 405, 207, 47]. **Applied** [15, 482, 51, 76, 72]. **Approach** [66, 268, 253]. **Approximate** [104, 150, 120, 292, 305, 548]. **Approximating** [57]. **Approximation** [337, 482, 91, 65, 405, 196, 245, 266, 315, 253, 133, 109, 468, 325]. **Approximations** [194, 238, 387, 175, 370, 116, 415]. **Arbitrary** [260, 86, 360, 522]. **Area** [230]. **Arguments** [75]. **Arising** [20, 33, 421]. **Arrival** [351]. **Aspects** [52, 153, 69]. **Assignment** [395, 275, 59]. **Assignments** [409]. **Associated** [458]. **Assumptions** [65]. **Asymptotic** [254, 25, 45, 128, 556, 229, 416, 525, 167, 342, 523, 131]. **Attraction** [485]. **Automata** [499]. **Automatic** [1, 6, 12, 17, 21, 30, 37, 88, 282, 260, 141, 14]. **Averaging** [483]. **Axial** [531, 235]. **Axial-Symmetric** [531]. **Axially** [490, 4]. **Axisymmetric** [428].

Bairstow [349]. **Ballistics** [353, 392, 439]. **Bar** [226]. **Barrier** [76]. **Base** [307, 397]. **Base-Driven** [307, 397]. **Based** [162, 239, 267]. **Basic** [411]. **be** [381]. **Beam** [174, 429, 235]. **Beams** [449, 277, 341]. **Behavior** [254, 131]. **Bending** [240, 277, 298, 55, 436]. **Bergman** [61]. **Bernoulli** [160]. **Bessel** [373, 446, 435, 229, 58]. **Best** [188, 394, 116, 133]. **Betting** [527]. **Between** [44]. **Bias** [122]. **Biased** [76]. **Bimatrix** [430, 461]. **Binary** [503, 76, 552, 502]. **Binomial** [505]. **Biology** [10]. **Biorthogonalization** [80]. **Biorthonormal** [107]. **Bipartite** [327]. **Block** [54, 465]. **Body** [187]. **Boltzmann** [492]. **Boolean** [145, 350, 372, 423, 330, 331]. **Bordered** [293]. **Bose** [252]. **Bose-Chaudhuri** [252]. **Boundary** [289, 265, 489, 212, 321, 170, 42, 514, 271, 383, 459]. **Bounds** [412, 280, 334, 440, 137, 370, 416, 227, 68, 437, 109]. **Branching** [476, 374]. **Buckling** [515, 521]. **Burst** [552, 318]. **Burst-Error** [552].

Calculation [117, 210]. **Calculus** [249]. **Can** [381]. **Capacitance** [227]. **Carlo** [103]. **Case** [91]. **Cauchy** [166, 164]. **cebysev** [91]. **Celestial** [459]. **Center** [396]. **Centered** [184]. **Certain** [151, 281, 135, 179, 334, 440, 402, 256, 525, 403, 163, 42, 253, 69, 58, 373, 356, 36]. **Chains** [437, 294]. **Channel** [220]. **Channels** [224]. **Characteristic** [78, 157, 389, 222, 270]. **Characteristics** [111, 324]. **Characterization** [64, 451, 504]. **Chaudhuri** [252]. **Chebyshev** [387, 175, 196, 245, 266, 60, 325]. **Checking** [393]. **Chemical** [357]. **Chinese** [318]. **Circle** [302]. **Circuit** [335]. **Circular** [544, 513, 396, 304, 298, 375, 307, 397, 452]. **Class** [534, 265, 217, 518, 87, 170, 169, 324, 231, 519]. **Classification** [13, 423, 533]. **Closed** [67, 365]. **Codes** [217, 463, 252, 552, 163]. **Coding** [502]. **Coefficient** [489, 246, 361]. **Coefficients** [284, 39, 324, 438, 131].

Coherent [503]. **Combinatorial** [20, 71, 417, 306]. **Combining** [432]. **Combustion** [491]. **Communication** [288, 426]. **Commutative** [450, 474]. **Comparison** [408, 522, 60]. **Competitive** [243]. **Complete** [22, 366, 508, 558]. **Complex** [195, 101, 303]. **Components** [317]. **Composite** [427]. **Computability** [114]. **Computation** [74, 37, 88, 282, 260, 141, 79, 24, 457, 53, 102]. **Computational** [2]. **Computations** [277]. **Computer** [63, 24, 223]. **Computers** [152, 1, 6, 12, 17, 21, 30, 111]. **Computing** [85, 394, 38, 101, 14, 83]. **Concentration** [246, 361]. **Concentration-Dependent** [246]. **Concepts** [95]. **Concerning** [467, 91]. **Condition** [347, 380, 212, 441]. **Conditions** [547]. **Conducting** [513, 488, 410, 307, 397]. **Conduction** [354]. **Conformal** [47]. **Conical** [428]. **Constant** [310, 259]. **Constants** [24]. **Constrained** [38, 198]. **Constraints** [46, 315, 156, 241, 376]. **Construction** [350]. **Containing** [435, 522, 155]. **Continuation** [422]. **Continuous** [316, 464, 524, 519]. **Contour** [230]. **Contraction** [265]. **Contributions** [364]. **Control** [140, 14]. **Convergence** [320, 78, 44, 83, 7, 150, 186, 314, 116, 541, 178]. **Convergent** [355, 357]. **Conversion** [545]. **Convex** [205, 369, 197, 315, 352, 355, 356, 8]. **Cooling** [255]. **Correcting** [217]. **Correction** [88, 552, 318]. **Corrections** [141]. **Corrector** [328, 279, 383]. **Correlation** [263]. **Correspondence** [269]. **Cosmical** [310]. **Cost** [350, 264, 199]. **Counter** [76]. **Counting** [339, 458]. **Crack** [4]. **Cracks** [429]. **Criteria** [537, 211]. **Criterion** [234]. **Critical** [126]. **Criticality** [100, 132]. **Cross** [446, 301, 382]. **Cross-Product** [446]. **Cross-Symmetry** [301]. **Crossings** [508, 558]. **Curtiss** [441]. **Curvature** [232]. **Curve** [213, 77]. **Curve-Fitting** [213]. **Cutting** [197, 237]. **Cutting-Plane** [197]. **Cyclic** [463, 345, 83, 552]. **Cylindrical** [410, 452].

D. [555]. **Damped** [258]. **Dams** [283, 316]. **Danilewski** [101]. **Data** [140, 432, 63, 463, 189]. **Data-Fitting** [63]. **Decision** [479, 89, 40, 48]. **Decision-Making** [89]. **Decoding** [22, 106]. **Decomposition** [335, 257]. **Defined** [324, 535]. **Deflating** [206]. **Deflation** [200, 94]. **Deflection** [226]. **Deformation** [436]. **Deformations** [428]. **Degeneracy** [329]. **Degree** [362, 549, 510, 96]. **Degree-** [96]. **Degrees** [290, 323]. **Delivery** [551]. **Delta** [371, 155]. **Demands** [190]. **Density** [189]. **Dependence** [95]. **Dependent** [476, 246, 351]. **Depending** [128]. **Depends** [361]. **Derivation** [117, 506]. **Derivatives** [280]. **Description** [493, 219]. **Design** [335, 223]. **Detailed** [141]. **Detection** [192, 165, 177, 40, 48, 552]. **Determinant** [101]. **Determination** [322, 174, 189, 84]. **Determine** [223]. **Determining** [420]. **Detonation** [340]. **Developing** [82]. **Diabatic** [61]. **Diagonal** [72]. **Difference** [412, 347, 380, 233, 471, 212, 520, 518, 7, 460, 292, 147, 155, 271, 415, 109, 184]. **Difference-Equation** [292]. **Differencing** [210]. **Differential** [13, 144, 143, 309, 265, 516, 44, 328, 321, 501, 518, 402, 526, 170, 272, 421, 128, 299, 39, 460, 200, 26, 287, 403, 139, 342, 324, 438, 425, 130, 82, 129]. **Differential-Difference** [518]. **Differentiation** [207, 164, 359]. **Diffraction** [513]. **Diffusion** [246, 7, 421, 210, 361]. **Digit** [247]. **Digital** [122, 152, 1, 6, 12, 17, 21, 30, 111, 63, 24]. **Dimension** [445]. **Dimensional** [337, 340, 450]. **Dimensions** [271, 383]. **Direction** [539, 154, 384, 469, 299, 543, 172, 278, 386]. **Dirichlet** [142, 280, 419]. **Discontinuous** [401]. **Discrete** [70, 401, 150, 186, 532, 231, 178]. **Discrete-Ordinate** [186]. **Discussion**

[333, 363]. **Disk** [396]. **Disordered** [97]. **Distribution** [281, 136, 410, 540, 547, 508, 558, 35, 523]. **Distributions** [89, 291, 247]. **Doklady** [91]. **Domains** [485]. **Double** [269, 277, 75]. **Driven** [307, 397]. **Dual** [203, 264, 454]. **Duality** [433, 352, 500, 519]. **Due** [36]. **Duffing** [363]. **Durable** [176]. **Dynamic** [544, 15, 46, 268, 190]. **Dynamics** [541].

Early [185]. **Earth** [385]. **Echoes** [165, 177]. **Effect** [160, 392, 436]. **Effects** [410]. **Eigenfrequencies** [444]. **Eigenfunctions** [57]. **Eigenvalue** [212, 99, 200, 530, 267]. **Eigenvalues** [117, 85, 282, 260, 101, 86, 83, 334, 440, 127, 420, 169, 457, 57, 84, 102, 82]. **Eigenvectors** [282, 260, 169, 102]. **Elastic** [449, 226, 104, 495]. **Elastically** [68]. **Elasticity** [555, 254, 390, 548]. **Elastostatics** [406]. **Electrical** [444]. **Electromagnetic** [513, 16]. **Electronic** [24]. **Elements** [467, 84]. **Ellipsoidal** [240]. **Elliptic** [524, 460, 26, 530, 382, 425, 436]. **Emission** [285, 214, 296]. **Emulsion** [168, 338]. **Energy** [496]. **Engineering** [10]. **Enlarged** [326]. **Entries** [377]. **Entropy** [542]. **Equation** [33, 144, 280, 419, 134, 389, 399, 398, 7, 256, 292, 498, 112, 287, 324, 276, 211]. **Equations** [215, 13, 388, 143, 91, 265, 516, 44, 233, 328, 471, 321, 454, 539, 520, 518, 402, 526, 127, 204, 170, 401, 506, 272, 193, 469, 431, 421, 450, 128, 120, 299, 107, 39, 460, 174, 26, 305, 403, 139, 342, 438, 47, 155, 425, 415, 130, 218, 184, 82, 129]. **Equiconvergence** [342]. **Equilibrium** [521, 430, 461, 171, 357]. **Equipment** [34, 195, 173, 176]. **Equivalence** [468]. **Equivalent** [400]. **Erdélyi** [556]. **Errata** [238, 132, 282, 439, 440, 270, 296, 397, 373, 557]. **Erratum** [225, 558, 239]. **Error** [148, 422, 217, 137, 370, 416, 552, 318, 109, 267]. **Error-Correcting** [217]. **Error-Correction** [552]. **Errors** [122, 14, 201]. **Especially** [56]. **Essay** [248]. **Estimates** [422, 477, 135, 522]. **Estimating** [432]. **Estimation** [300, 343, 522, 119]. **Evaluation** [11, 101, 326, 105, 166]. **Evasion** [434]. **Even** [221]. **Every** [294]. **Exact** [367]. **Excitation** [37, 88, 141]. **Existence** [353, 392, 439, 478]. **Expansion** [535, 480, 176]. **Expansions** [148, 73, 45, 170, 107, 556, 229, 416, 291]. **Expectations** [511]. **Experience** [2]. **Experiment** [313]. **Explicit** [121]. **Explosion** [531]. **Exponential** [272]. **Exponential-like** [272]. **Exponentials** [256, 266]. **Expression** [365]. **Extended** [386]. **Extension** [251, 185, 375]. **Exterior** [64]. **External** [302]. **Extinction** [476]. **Extraction** [40, 48]. **Extrapolation** [139].

Failure [317, 195]. **Family** [137]. **Faulty** [224]. **Feedback** [418, 286]. **Field** [396]. **Fields** [262, 163]. **Films** [24]. **Filtering** [192, 50, 3]. **Filters** [194, 238, 122, 231]. **Finding** [205, 179, 86, 431]. **Finite** [412, 283, 91, 262, 528, 212, 66, 171, 437, 163, 475, 147, 442, 554, 109]. **Finite-Difference** [212, 109]. **Finite-State** [437]. **Fins** [255, 191, 216, 259]. **First** [421, 370, 342, 271, 383]. **First-Order** [342, 271, 383]. **Fit** [320, 162, 239]. **Fitting** [63, 225, 208, 213, 77]. **Fixed** [246, 36]. **Flat** [297]. **Fleet** [183]. **Flow** [455, 507, 199, 61, 493, 220, 210, 297]. **Flows** [111, 244, 273]. **Fluid** [488]. **Force** [488]. **Form** [113, 309, 79, 484, 417]. **Forms** [136, 175]. **Formula** [405, 147, 221]. **Formulae** [337, 82]. **Formulas** [350, 279, 336, 480, 330, 331]. **Formulation** [140, 89]. **Foundation** [226]. **Four** [484]. **Four-Person** [484]. **Fourier** [556, 25, 45]. **Fraction** [405]. **Fractional** [490, 374]. **Fracture** [429]. **Fredholm** [47]. **Free** [304, 158, 496]. **Frequencies** [174, 223, 68]. **Frequency** [517, 545]. **Fuel** [236]. **Function** [362, 179, 448, 435, 484, 368, 404, 496].

- Functional** [33, 281, 401, 335, 139].
Functionals [464]. **Functions** [145, 148, 446, 399, 225, 208, 372, 423, 229, 35, 475, 324, 535, 221, 155, 359, 58, 373, 356].
Fundamental [517, 453, 401].
- Game** [456, 348]. **Games** [161, 243, 430, 484, 461, 171, 8]. **Gas** [493].
Gaussian [427, 119]. **Gegenbauer** [378].
General [50, 22, 79, 423, 450, 417, 147, 313, 382, 276, 231]. **Generalization** [234, 349, 61, 535, 480, 250, 95].
Generalized [364, 447, 173, 273, 213, 529, 305, 546].
Generation [63, 407]. **Geometric** [314, 531]. **Geometry** [462, 309, 104].
Gibbs [496]. **Goursat** [180]. **Gradient** [161, 198, 156, 241, 553]. **Gradients** [259].
Graph [290, 323]. **Graphs** [467, 455, 507, 262, 327, 269, 508, 558, 106, 499].
Gravitational [311]. **Gravity** [392].
Greatest [74]. **Gregory** [115]. **Grids** [289].
Griffin [555]. **Groups** [423, 89]. **Growth** [287].
- Hakimi** [467]. **Hankel** [554]. **Harmonic** [308, 441]. **Having** [84]. **Heat** [354, 191].
Heated [159]. **Hermite** [73, 147, 473].
Hermitian [85, 83]. **High** [111].
High-Speed [111]. **Highly** [488]. **Hilbert** [462, 391, 305]. **Hill** [112]. **History** [32].
Hölder [451]. **Hole** [398, 375].
Hydrodynamic [210]. **Hyperbolic** [265, 44, 471, 299, 271, 383, 109, 184].
Hyperbolic-Parabolic [265].
Hypergeometric [448]. **Hypothesis** [427].
- Identities** [117, 505]. **II** [181, 6, 323, 392, 19, 150, 48, 241, 331]. **III** [12, 23]. **Impervious** [424]. **Implicant** [248]. **Implicit** [27, 233, 384, 543, 210, 172, 278, 386].
Implicitly [535]. **Imprimitive** [389].
In-Line [223]. **Incidence** [529]. **Including** [410, 330, 331]. **Incompatible** [91].
Incomplete [233]. **Independence** [96].
Independent [225, 208, 294, 359].
Industrial [1, 6, 12, 17, 21, 30].
Inequalities [517, 526, 401]. **Infinite** [226, 159, 435, 375, 361]. **Infinitely** [513].
Influence [89]. **Inhomogeneous** [415].
Initial [347, 380, 235]. **Input** [545]. **Integer** [376]. **Integers** [290, 323]. **Integral** [399, 454, 378, 526, 127, 61, 107, 47].
Integrals [11, 25, 45, 435, 556, 166, 164].
Integrating [92, 181]. **Integration** [134, 27, 490, 110, 137, 201, 279, 62, 139, 480, 359, 182]. **Integro** [144].
Integro-Differential [144].
Integrodifferential [498]. **Inter** [351].
Inter-Arrival [351]. **Internal** [302].
Internal-External [302]. **Interpolation** [308, 75, 147, 221, 441, 149, 473].
Interpretation [480]. **Intervals** [112].
Introduction [31, 9, 19, 23, 16].
Introductory [124]. **Invariant** [231].
Inventory [190, 413]. **Inverse** [447, 529, 69, 504]. **Inverses** [364, 546].
Inversion [455, 228, 80, 378, 105, 442, 554, 118].
Inverting [67, 87]. **Involving** [45, 321, 399, 256, 556, 130, 58, 373].
Irreducible [510]. **Isoenergetic** [111].
Iteration [54, 233, 284, 72, 154, 172, 278, 386, 553, 325].
Iterations [28, 193]. **Iterative** [142, 215, 511, 81, 187, 359, 60]. **IV** [17, 31].
- J** [238, 132, 467, 555, 282, 225, 439, 440, 556, 558, 270, 296, 397, 373, 239, 557]. **J.** [256].
Jacobi [282, 85, 260, 345, 83]. **Jacobi-like** [282, 260]. **Jeep** [551]. **Jitter** [346].
- Karman** [487]. **Katz** [338]. **Kernels** [57].
Kilter [199]. **Kinds** [317]. **Kinetic** [493].
Kolmogorov [228]. **Kramer** [408]. **Kron** [333].

L [467]. **Laboratory** [24]. **Lag** [413]. **Lagrange** [462, 38, 535, 480, 473]. **Lagrange-Hermite** [473]. **Laminar** [297]. **Lanczos** [86]. **Langenhop** [512]. **Laplace** [419, 398, 547, 504]. **Large** [215, 396, 81, 129]. **Large-Scale** [215, 81]. **Largest** [162, 239, 523]. **Lateral** [235]. **Lattice** [97, 499]. **Lattice-Ordered** [499]. **Lattices** [56]. **Laurent** [131]. **Law** [195]. **Laws** [496]. **Layer** [489]. **Least** [122, 343]. **Least-Squares** [343]. **Legendre** [399, 407]. **Length** [230]. **Like** [471, 220, 282, 260, 272]. **Limitations** [232]. **Limited** [5, 424]. **Line** [223]. **Linear** [215, 50, 234, 322, 140, 70, 419, 143, 91, 262, 44, 273, 358, 290, 323, 423, 72, 400, 2, 28, 272, 77, 193, 61, 81, 128, 198, 175, 39, 129, 509, 552, 417, 156, 411, 324, 522, 438, 541, 500, 95, 415, 235, 130, 407, 519, 319, 536, 557, 82, 329, 8, 108]. **Linear-Convex** [8]. **Linearly** [361]. **Lines** [488]. **Liouville** [412, 284, 218]. **Location** [444, 470]. **Locus** [251, 365]. **Logarithmic** [45, 556]. **Loopless** [394]. **Lower** [227, 68]. **Lyapunov** [537, 250].

Machine [114]. **Magnetic** [488]. **Making** [89]. **Mapping** [47]. **Marginal** [319]. **Markov** [144, 294, 458]. **Mass** [496, 191, 216, 259]. **Masses** [223]. **Math** [91]. **Mathematical** [52, 295, 153, 433, 333, 89, 486, 494]. **Mathematics** [482]. **Mathieu** [276]. **Matric** [157]. **Matrices** [100, 132, 293, 85, 455, 477, 101, 86, 99, 83, 334, 440, 80, 67, 87, 206, 169, 546, 457, 84, 442, 554, 504, 474]. **Matrix** [117, 74, 254, 388, 447, 516, 362, 389, 260, 228, 79, 66, 529, 510, 547, 174, 105, 94, 249, 219, 102, 118]. **Maximally** [182]. **Maximization** [5]. **Maximum** [295, 551]. **Mean** [406, 148, 360]. **Means** [35]. **Measure** [475]. **Measurements** [332]. **Mechanical** [223]. **Mechanics** [459]. **Mechanism** [521]. **Medium** [159, 531, 361]. **Membrane** [517, 55]. **Membranes** [68].

Metal [24]. **Method** [54, 103, 511, 74, 340, 432, 78, 471, 282, 260, 111, 465, 25, 539, 199, 98, 86, 333, 420, 150, 186, 197, 384, 469, 431, 251, 365, 61, 366, 198, 39, 303, 483, 94, 305, 472, 139, 222, 270, 42, 167, 156, 241, 210, 306, 121, 60, 218, 178, 82, 237]. **Methods** [192, 412, 85, 27, 328, 101, 240, 110, 345, 83, 67, 87, 279, 65, 16, 299, 543, 292, 60]. **Minima** [38]. **Minimal** [350, 199, 497, 330, 331]. **Minimal-Cost** [199]. **Minimality** [22]. **Minimization** [253]. **Minimize** [527, 201]. **Minimizing** [404, 356]. **Minimum** [264, 65, 411, 236, 191, 216, 259]. **Minimum-Fuel** [236]. **Minimum-Mass** [191, 259]. **Minimum-Time** [236]. **Mixed** [432, 417, 133, 271, 383]. **Mixing** [489, 491]. **Mode** [277]. **Model** [168, 413, 338, 278, 386]. **Models** [10, 312]. **Modes** [223, 277]. **Modifications** [507]. **Modified** [229]. **Modulation** [545]. **Modules** [503]. **Monotonicity** [179]. **Monte** [103]. **Motion** [506, 232]. **Multi** [20, 244, 463, 72, 279, 209]. **Multi-Diagonal** [72]. **Multi-Phase** [463]. **Multi-Stage** [20]. **Multi-Step** [279]. **Multi-Terminal** [244]. **Multi-Weighted** [209]. **Multidimensional** [56]. **Multiple** [445, 505, 230, 29, 339, 377, 318]. **Multiple-Burst** [318]. **Multiple-Valued** [230]. **Multipliers** [462, 38]. **Multipole** [311]. **Multistage** [418, 348, 286]. **Multivariate** [75].

N.S [91]. **Natural** [274, 174, 223]. **Nauk** [91]. **Navier** [450]. **Near** [396, 385]. **Nearly** [221]. **Nearly-Odd** [221]. **Necessary** [347, 380, 547]. **Neighboring** [126]. **Nerve** [37, 88, 141]. **Nets** [22, 106]. **Network** [394, 244, 273, 426]. **Networks** [444, 288, 242, 371, 219]. **Neumann** [340]. **Neutrices** [125]. **Neutron** [300]. **Newton** [270, 117, 222]. **no** [238, 132, 467, 555, 282, 225, 439, 440, 556,

558, 270, 296, 397, 373, 239, 557]. **Noise** [73, 165, 177, 107, 40, 48, 424, 158, 119]. **Non** [85, 78, 526]. **Non-Convergence** [78]. **Non-Hermitian** [85]. **Non-Oscillation** [526]. **Nonhomogeneous** [517, 531]. **Nonlinear** [515, 328, 281, 99, 353, 392, 439, 478, 518, 431, 343, 460, 498, 428, 403, 156, 241, 90, 237]. **Nonnegative** [100, 132]. **Nonsingularity** [441]. **Nonsymmetric** [520]. **Nonterminating** [28]. **Nonuniform** [289]. **Nonunique** [521]. **Normal** [136, 223]. **Norms** [451]. **Note** [467, 92, 181, 388, 91, 453, 369, 344, 288, 225, 208, 464, 368, 556, 229, 55, 75, 96]. **Notes** [41]. **Number** [51, 372, 381]. **Numbers** [409, 502]. **Numerical** [300, 92, 181, 289, 555, 419, 143, 265, 134, 27, 44, 202, 240, 390, 110, 431, 256, 26, 62, 139, 210, 189, 341, 166, 359, 182, 297]. **Nyquist** [234].

Oblate [486]. **Observational** [312]. **Obstacle** [220]. **Odd** [221]. **One** [445, 340]. **One-Dimensional** [340]. **Only** [191]. **Operation** [29]. **Operator** [254, 464, 469, 61, 305]. **Operators** [92, 181, 524, 200]. **Optical** [24]. **Optimal** [283, 316, 479, 395, 138, 275, 409, 190, 286, 502]. **Optimization** [123, 418, 414]. **Optimizing** [511, 532]. **Optimum** [393, 317, 194, 238, 434, 65, 533, 545, 278, 224]. **Optional** [413]. **Orbit** [367, 483]. **Orbits** [486, 385]. **Order** [347, 402, 7, 421, 200, 287, 342, 294, 271, 383, 291, 129]. **Ordered** [502, 499]. **Ordering** [72, 204]. **Ordinary** [321, 272, 421, 128, 200, 139, 82]. **Ordinate** [150, 186, 178]. **Ornstein** [281]. **Orr** [134]. **Orthogonal** [63, 381, 267]. **Oscillation** [526]. **Oscillations** [525]. **Oscillator** [258]. **Oscillators** [478]. **Osculatory** [147]. **Out-of-Kilter** [199]. **Overrelaxation** [465, 305, 60].

p [91]. **Pair** [342]. **Paper** [555, 91, 256, 115]. **Parabolic** [265, 44, 233, 328, 539, 120, 26, 376]. **Parallel** [467]. **Parameter** [128, 119, 129]. **Parameters** [300, 322, 151, 343, 522, 278]. **Parametric** [170]. **Part** [392, 104, 156, 241, 382]. **Partial** [13, 265, 170, 460, 425]. **Partition** [484, 475]. **Partitioned** [447, 546]. **Past** [528]. **Paths** [394, 538]. **Pattern** [307, 397, 481]. **Peg** [398]. **Perceptron** [314]. **Percolation** [379, 374]. **Periodic** [151, 478, 501, 56, 324, 438]. **Periodicity** [534]. **Persistence** [160]. **Person** [161, 484]. **Perturbation** [226, 541]. **Perturbational** [276]. **Perturbations** [321]. **Phase** [25, 126, 463, 218]. **Photographs** [326]. **Pitfalls** [53]. **Placed** [381]. **Planar** [467, 159, 367, 483, 62]. **Plane** [513, 555, 242, 79, 390, 104, 197, 232, 237]. **Planet** [486]. **Plate** [304, 375, 297]. **Plates** [515, 68, 298]. **Point** [64, 137, 542, 40, 48, 370, 416, 531, 514, 130, 459]. **Points** [64, 126, 430, 461, 171]. **Pointwise** [186]. **Poisson** [280]. **Polar** [385]. **Policies** [283, 188, 479]. **Policy** [34, 190]. **Polya** [71]. **Polyhedra** [538]. **Polyhedral** [205]. **Polymerization** [168, 338]. **Polynomial** [157, 549, 303, 163, 441, 84, 291]. **Polynomials** [308, 135, 63, 60]. **Position** [476, 432]. **Position-Dependent** [476]. **Positive** [74, 547, 504]. **Positive-Real** [547, 504]. **Potential** [47]. **Potentials** [490, 36]. **Power** [94]. **pp** [91]. **Practical** [11]. **Prediction** [192, 50, 528]. **Predictor** [328, 383]. **Predictor-Corrector** [328, 383]. **Predictors** [194, 238]. **Presence** [36]. **Present** [114]. **Prime** [248]. **Principle** [509]. **Priority** [533]. **Probabilistic** [371]. **Probabilities** [476]. **Probability** [527, 10, 285, 437]. **Problem** [142, 412, 15, 46, 467, 280, 419, 91, 153, 395, 212, 98, 275, 284, 302, 180, 255, 97, 32, 367, 360, 533, 551, 222, 270, 187, 530, 69, 363,

271, 383, 121, 459, 278, 386, 357, 481].
Problems [192, 20, 289, 347, 380, 555, 73, 422, 64, 321, 199, 390, 99, 268, 170, 104, 150, 421, 354, 200, 483, 59, 18, 370, 416, 4, 42, 253, 47, 514, 519, 218, 257, 548]. **Procedure** [179, 213, 359, 355, 357]. **Procedures** [393, 137, 201]. **Process** [161, 144, 479, 281, 349, 284, 190, 542, 458]. **Processes** [43, 49, 20, 476, 418, 491, 261, 379, 374, 427, 94, 286, 458]. **Product** [446, 543, 381]. **Products** [435, 545, 474]. **Program** [400, 223]. **Programming** [15, 46, 295, 419, 453, 369, 273, 433, 268, 77, 391, 198, 494, 156, 241, 352, 500, 519, 355, 319, 536, 557, 376, 237, 329]. **Programs** [203, 264, 400, 2, 197, 105, 417]. **Projection** [156, 241]. **Projective** [352]. **Proof** [251, 500]. **Propagated** [201]. **Proper** [477]. **Properties** [320, 534, 179, 72, 263]. **Property** [301]. **Pseudoinverses** [344]. **Punch** [4]. **Purely** [524].

Quadratic [309, 453, 203, 275, 136, 391]. **Quadrature** [336, 207]. **Quasi** [337, 415]. **Quasi-Dimensional** [337]. **Quasi-Linear** [415]. **Quasicyclic** [83]. **Quasilinearization** [514]. **Queue** [540]. **Queueing** [29, 18]. **Queues** [351, 306].

R [256]. **R.** [555, 115]. **Radar** [165, 177]. **Radiation** [410, 311, 210, 307, 397, 191]. **Radiative** [498]. **Radiometric** [332]. **Random** [449, 148, 346, 230, 76, 261, 242, 497, 93, 285, 56, 508, 558, 470, 214, 296, 158, 485, 247]. **Range** [183]. **Rank** [118]. **Rarefied** [493]. **Rate** [551, 287]. **Ratio** [175]. **Rational** [362, 510, 39, 405, 504]. **Reactor** [100, 132]. **Real** [391, 547, 303, 457, 211, 504]. **Realizability** [290, 323]. **Realizations** [510]. **Reciprocal** [358]. **Recognition** [481]. **Recollections** [487]. **Rectangular** [515, 429]. **Recurrence** [475]. **Recurring** [108]. **Recursion** [414]. **Reduction** [113].

Redundancy [317, 466]. **Reentrant** [530]. **Region** [530]. **Regression** [261]. **Regular** [227]. **Regularity** [65]. **Regulation** [283, 316]. **Related** [379, 80, 526, 95]. **Relation** [44]. **Relations** [468]. **Relativistic** [258]. **Relativity** [313]. **Relaxation** [525]. **Reliability** [153, 288]. **Remainder** [318]. **Remark** [555, 256, 115]. **Remarks** [446, 395, 336, 39]. **Rendezvous** [236]. **Replacement** [34, 173, 176]. **Representation** [202, 220]. **Representations** [447, 25]. **Research** [1, 6, 12, 17, 21, 30]. **Residue** [534]. **Resolving** [329]. **Resonance** [300]. **Resource** [286]. **Resources** [5]. **Respect** [464]. **Response** [43, 49]. **Restraining** [76]. **Restricted** [93]. **Result** [185]. **Results** [86, 80]. **Return** [5]. **Rev** [91]. **Review** [97]. **Revolution** [495]. **Riccati** [516]. **Rice** [256]. **Riemann** [471]. **Riemann-Like** [471]. **Ring** [382, 452]. **Ring-Stiffened** [452]. **Rings** [534]. **Rise** [159]. **Rods** [544]. **Root** [74, 78, 251, 365, 366, 470]. **Root-Locus** [251]. **Root-Squaring** [366]. **Roots** [157, 135, 303, 211]. **Rotating** [495]. **Rotations** [79]. **Round** [398]. **Ruin** [527].

S [555]. **S.** [467]. **Saddle** [64]. **Sample** [136, 162, 239, 523]. **Sampled** [140]. **Sampled-Data** [140]. **Sampling** [346, 408, 158]. **Satellites** [385]. **Scale** [215, 81, 310]. **Scaled** [193]. **Scattering** [445, 64, 104, 16, 69]. **Scheduling** [52]. **Scheme** [271, 383]. **Schemes** [347, 380, 72, 154]. **Schwinger** [64, 472]. **Screen** [513, 307, 397]. **Search** [434, 138, 65, 348]. **Seasonal** [190]. **Second** [347, 549, 402, 200, 287, 291, 129]. **Second-Degree** [549]. **Second-Order** [347, 200, 287, 291]. **Section** [382]. **Self** [203, 433, 82]. **Self-Adjoint** [82]. **Self-Dual** [203]. **Self-Duality** [433]. **Semi** [226, 458, 60, 361]. **Semi-Infinite** [226, 361]. **Semi-Iterative** [60]. **Semi-Markov** [458].

Semigroups [499]. **Sensitivity** [332].
Sequence [160, 407]. **Sequences** [108].
Sequencing [268]. **Sequential**
 [113, 479, 65]. **Series**
 [41, 148, 226, 528, 167, 58, 373, 553]. **Server**
 [351, 540]. **Service** [351]. **Set** [350, 290, 323].
Sets [205, 372, 263]. **Several**
 [225, 208, 535, 480, 404, 149, 359]. **Shallow**
 [495, 90]. **Shannon** [456]. **Shape** [531].
Shapes [277]. **Sharing** [152]. **Shear** [436].
Shells
 [240, 410, 521, 428, 55, 495, 452, 90, 436].
Shock [531]. **Short** [500]. **SIAM**
 [238, 132, 467, 555, 282, 225, 439, 440, 556,
 558, 270, 296, 397, 373, 239, 557]. **Signal**
 [339, 263]. **Signals** [40, 48, 424, 381, 522].
Significance [71]. **Simple** [82].
Simplification [130]. **Simultaneous**
 [215, 143, 454, 154, 552]. **Single**
 [29, 351, 540, 277]. **Single-Server** [540].
Singular [321, 411, 166, 164]. **Singularities**
 [45, 556, 220, 36]. **Small** [136]. **Smoothing**
 [15, 228, 66]. **Solid** [360]. **Solids** [358, 227].
Solution [412, 215, 289, 555, 226, 419, 143,
 91, 265, 44, 454, 98, 390, 518, 398, 7, 450, 81,
 354, 456, 39, 256, 367, 18, 26, 305, 276, 121].
Solutions [142, 151, 395, 478, 501, 302, 7,
 104, 150, 272, 431, 120, 484, 292, 525, 287,
 187, 342, 411, 438, 541, 109, 548]. **Solving**
 [471, 2, 28, 197, 42, 47, 425, 357]. **Some**
 [517, 20, 534, 406, 422, 505, 51, 477, 333, 67,
 127, 302, 460, 18, 487, 404, 207, 548].
Sommerfeld [134]. **Sorting** [274]. **Source**
 [159, 531]. **Space** [462, 539, 305, 352].
Spaced [75]. **Spaces** [534, 391, 56, 475].
Spacing [162, 239, 523]. **Specified** [216].
Spectral [254, 136]. **Spectrum** [524].
Speed [111, 83]. **Sphere** [549, 360, 36].
Spherical [104, 521, 55, 90]. **Spline** [320].
Spontaneous [214, 296]. **Springs** [223].
Square [148, 398]. **Squares** [122, 343].
Squaring [366]. **SSSR** [91]. **Stability**
 [544, 161, 234, 347, 380, 44, 402, 537, 112,
 438, 211]. **Stabilization** [512]. **Stable**
 [322, 271, 182]. **Stage** [20]. **Stagewise**
 [43, 49]. **Standardization** [130]. **State**
 [104, 360, 437]. **Statement** [124]. **States**
 [322, 521]. **Stationary**
 [64, 25, 549, 126, 540]. **Statistical**
 [192, 31, 9, 19, 23, 40, 48]. **Steady**
 [340, 104, 360]. **Steady-State** [104, 360].
Stefan [121]. **Step** [279, 155]. **Stieltjes**
 [185]. **Stiffened** [452]. **Stochastic**
 [190, 168, 458, 536, 557]. **Stodola** [284].
Straight [220]. **Strategies** [138].
Streamlines [189]. **Strength** [429]. **Stress**
 [235]. **Stresses** [55]. **Strictly** [243].
Strongly [326]. **Structures** [494]. **Studies**
 [297]. **Study** [173, 93]. **Sturm**
 [412, 284, 218]. **Subject** [317, 190].
Suboptimal [275]. **Success** [160].
Successive [465, 72, 154, 475, 60].
Sufficient [347, 380, 547]. **Summation**
 [41, 75, 221]. **Sums**
 [505, 209, 330, 331, 58, 373]. **Supersonic**
 [111, 491]. **Supported** [68]. **Surface**
 [230, 246, 429]. **Surroundings** [191].
Survey [67]. **Switching** [335, 456].
Symbols [217]. **Symmetric**
 [465, 490, 4, 298, 457, 531, 57, 452, 109, 468].
Symmetries [501]. **Symmetry** [301].
Synthesis [426]. **System**
 [91, 223, 541, 271, 383]. **Systematic** [434].
Systems [215, 234, 322, 503, 70, 29, 527,
 463, 501, 72, 28, 204, 272, 450, 81, 509, 403,
 466, 411, 130, 109, 184].
T [115]. **Table** [66]. **Tables** [248].
Tchebycheff [91, 116]. **Tearing** [333].
Technique [425, 172, 329]. **Techniques**
 [482, 212, 333, 267]. **Telegrapher** [292].
Temperature [410, 159, 259]. **Temporal**
 [35]. **Tensor** [543, 474]. **Terminal** [244].
Terminating [28, 167]. **Test** [162, 239].
Testing [427]. **Tests** [312]. **th** [188, 294].
their [117]. **Theodore** [487]. **Theorem**
 [453, 492, 358, 314, 360, 71, 342, 512, 500,
 250, 519, 318]. **Theorems**

- [406, 408, 353, 392, 439, 526, 209]. **Theories** [128]. **Theory** [145, 20, 15, 33, 52, 364, 50, 140, 22, 350, 51, 228, 136, 358, 31, 9, 19, 23, 486, 493, 40, 48, 106, 494, 114, 330, 331, 313, 382, 47, 306, 386, 90, 3]. **Thermal** [410]. **Thermo** [357]. **Thermo-Chemical** [357]. **Thermoelastic** [360]. **Thick** [298]. **Thickness** [216]. **Thin** [24, 191, 216, 259]. **Third** [302]. **Three** [539, 137, 450]. **Three-Dimensional** [450]. **Three-Point** [137]. **Time** [316, 152, 528, 540, 310, 424, 413, 231, 236, 553]. **Time-Invariant** [231]. **Time-Scale** [310]. **Time-Sharing** [152]. **Times** [351]. **Toeplitz** [442]. **Tool** [24]. **Topics** [379]. **Toroidal** [436]. **Torsion** [4]. **Traffic** [377]. **Trajectories** [123]. **Transcendental** [256, 211]. **Transfer** [498, 191]. **Transform** [295, 448, 547]. **Transformation** [378, 371]. **Transformations** [534, 262, 110, 267]. **Transforming** [79]. **Transforms** [504]. **Transient** [43, 49]. **Transition** [437, 297]. **Transitivity** [372]. **Transmission** [463]. **Transport** [104, 150]. **Transportation** [488, 98, 400, 59, 257]. **Transverse** [449, 436]. **Treating** [218]. **Treatment** [252, 341, 257]. **Trees** [497]. **Triangular** [79]. **Trichotomous** [466]. **Tridiagonal** [113, 334, 440]. **Tridiagonalization** [550]. **Truncation** [148]. **Turbulence** [31, 9, 19, 23]. **Turbulent** [489, 297]. **Turing** [114]. **Turning** [370, 416, 130]. **Turning-Point** [370, 416]. **Two** [317, 327, 209, 514, 271, 383, 459]. **Type** [85, 284, 72, 302, 133, 166, 164, 383].
- Uhlenbeck** [281]. **Unbiased** [522]. **Unbounded** [127]. **Unequally** [75]. **Unified** [253, 341]. **Uniform** [263]. **Uniqueness** [323]. **Unit** [549]. **Unitary** [79]. **Unknown** [522]. **Unstable** [422, 324]. **Upon** [128]. **Upper** [227]. **Use** [73, 63, 284]. **Used** [333, 94]. **Useful** [110]. **Using** [289, 86, 175, 552, 60]. **Utility** [202].
- Utilization** [224].
- V** [21]. **Value** [406, 289, 347, 380, 321, 170, 360, 222, 270, 42, 459]. **Valued** [230, 261, 179]. **Values** [477, 549, 485, 319]. **Varga** [555]. **Variable** [284]. **Variables** [230, 539, 225, 208, 294, 535, 480, 404, 485, 149, 359, 247]. **Variates** [136]. **Variation** [151, 472]. **Variational** [46, 16, 255, 509, 47]. **Variations** [190]. **Vector** [534, 261, 179]. **Vector-Valued** [261, 179]. **Velocities** [432]. **Versus** [434]. **Vertices** [205, 290, 323, 409]. **VI** [30]. **Vibrating** [226, 341]. **Vibration** [223, 68]. **Vibrations** [449, 304, 235, 452]. **View** [40, 48]. **Viscoelastic** [358, 450]. **Vortex** [220]. **Vortex-Like** [220].
- Waiting** [540]. **Walk** [93, 285]. **Walks** [76, 56, 214, 296]. **Wave** [340]. **Waveforms** [119]. **Waves** [513, 531]. **Weighted** [209]. **Which** [381, 527, 201, 191]. **Whittaker** [408]. **Whose** [361]. **Wielandt** [101]. **Wiener** [238, 194, 228]. **Wiener-Kolmogorov** [228]. **Without** [467]. **World** [312]. **WT** [381]. **WT-Product** [381]. **Wye** [371]. **Wye-Delta** [371].
- Zero** [179, 191]. **Zeros** [443, 446]. **Zuhovickii** [91].

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), 2168-3484 (electronic).

Hoffman:1953:CES

- [2] A. Hoffman, M. Mannos, D. Sokolowsky, and N. Wiegmann. Computational experience 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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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 diffusion equation. *Journal of the Society for Industrial and Applied Mathematics*, 1(2):111–135, December 1953. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

KampedeFeriet: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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

Luke:1955:RMS

- [39] Yudell L. Luke. Remarks on the τ -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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

Weinitschke:1958:NTS

- [90] Hubertus J. Weinitschke. On the non-linear 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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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):298–305, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (electronic).

Olver:1959:LDE

- [129] F. W. J. Olver. Linear differential equations of the second order with a large parameter. *Journal of the Society for Industrial and Applied Mathematics*, 7(3):306–310, September 1959. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (electronic).

Turriffin:1959:SSS

- [130] H. L. Turriffin 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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

Boyll: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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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 JSIMAV.

ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic). See note [467].

Ruiz:1963:UCC

- [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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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. CO-

DEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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. CO-

DEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

Haseltine:1963:ETNa

- [353] W. R. Haseltine. Existence theorems for nonlinear ballistics. *Journal of the Society for Industrial and Applied Mathe-*

matics, 11(3):553–563, September 1963. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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 JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

Campbell:1964:CST

- [408] L. L. Campbell. A comparison of the sampling theorems of Kramer and Whittaker. *Journal of the Society for Industrial and Applied Mathematics*, 12(1):117–130, March 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

Olver:1964:EBAb

- [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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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):413–423, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (electronic).

458–464, June 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (electronic).

Aggarwal:1964:Z

- [443] H. R. Aggarwal. On the zeros of $kz^2 K'_n(kz)K'_n(z) - n^2 K_n(kz)K_n(z)$. *Journal of the Society for Industrial and Applied Mathematics*, 12(3):523–525, September 1964. CODEN JSIMAV. ISSN 0368-4245 (print), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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), 2168-3484 (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].