AMS (MOS) MAJOR SUBJECT HEADINGS (1970)

The letters in parentheses indicate groupings which are used in the table of contents of each issue and in the volume index.

00	(H)	General
01	(H)	History and Biography
02	(E)	Logic and Foundations
04	(E)	Set Theory
05	(A)	Combinatorics
06	(A)	Order, Lattices, Ordered Algebraic Structures
08	(A)	General Mathematical Systems
10	(A)	Number Theory
12	(A)	Algebraic Number Theory, Field Theory and Polynomials
13	(A)	Commutative Rings and Algebras
14	(A)	Algebraic Geometry
15	(A)	Linear and Multilinear Algebra, Matrix Theory (finite and infinite)
16	(A)	Associative Rings and Algebras
17	(A)	Nonassociative Rings and Algebras
18	(A)	Category Theory, Homological Algebra
20	(A)	Group Theory and Generalizations
22	(G)	Topological Groups, Lie Groups
26	(B)	Real Functions
28	(B)	Measure and Integration
30	(B)	Functions of a Complex Variable
31	(B)	Potential Theory
32	(B)	Several Complex Variables and Analytic Spaces
33	(B)	Special Functions
34	(B)	Ordinary Differential Equations
35	(B)	Partial Differential Equations
39	(B)	Finite Differences and Functional Equations
40	(B)	Sequences, Series, Summability
41	(B)	Approximations and Expansions
42	(B)	Fourier Analysis
43	(B)	Abstract Harmonic Analysis
44	(B)	Integral Transforms, Operational Calculus
45	(B)	Integral Equations
46	(B)	Functional Analysis
47	(B)	Operator Theory
49	(B)	Calculus of Variations and Optimal Control
50	(D)	Geometry
52	(D)	Convex Sets and Geometric Inequalities
53	(D)	Differential Geometry
54	(G)	General Topology
55	(G)	Algebraic Topology
57	(G)	Manifolds and Cell Complexes
58	(G)	Global Analysis, Analysis on Manifolds
60	(F)	Probability Theory and Stochastic Processes
62	(F)	Statistics
65	(C)	Numerical Analysis
68	(C)	Computer Science
70	(C)	Mechanics of Particles and Systems
73	(C)	Mechanics of Solids
76	(C)	Fluid Mechanics
78	(C)	Optics, Electromagnetic Theory
80	(C)	Classical Thermodynamics, Heat Transfer
81	(C)	Quantum Mechanics
82	(C)	Statistical Physics, Structure of Matter
83	(C)	Relativity
85	(C)	Astronomy and Astrophysics
86	(C)	Geophysics
90	(C)	Economics, Operations Research, Programming, Games
92	(C)	Biology and Behavioral Sciences
93	(C)	Systems, Control
94	(C)	Information and Communication, Circuits, Automata
96	(H)	Mathematical Education, Elementary
97	(H)	Mathematical Education, Secondary
98	(H)	Mathematical Education, Collegiate

INDEX TO VOLUME 35

SUBJECT INDEX

*Starred items are "Shorter Notes"

A. Algebra and Number Theory

05. Combinatorics

Bang, C. M. *Isomorphism types of infinite symmetric graphs*, 31.

Wright, E. M. *The probability of connectedness of an unlabelled graph can be less for more edges*, 21.

06. Order, Lattices, Ordered Algebraic Structures

Schnare, Paul S. *The topological complementation theorem à la Zorn*, 285.

08. General Mathematical Systems

Bang, C. M. *Isomorphism types of infinite symmetric graphs*, 31.

Davis, Robert C. *Quasi-cotripleable categories*, 43.

Grätzer, G. and Lakser, H. *Two observations on the congruence extension property*, 63.

10. Number Theory

Brown, Lawrence G. *Topologically complete groups*, 593.

Davis, Martin. *On the number of solutions of Diophantine equations*, 552.

Joshi, V. S. *On the order of some error functions related to k-free integers*, 325.

Mordell, L. J. *Rational functions representing all residues* mod *p*. II, 411.

Spira, Robert. *Zeros of $\zeta'(s)$ in the critical strip*, 59.

12. Algebraic Number Theory, Field Theory and Polynomials

Białynicki-Birula, A. *On subfields of countable codimension*, 354.

Weinberger, P. J. *A counterexample to an analogue of Artin's conjecture*, 49.

13. Commutative Rings and Algebras

Brown, William C. *An application of the algebra of differentials of infinite rank*, 9.

Cheatham, T. and Enochs, E. *The epimorphic images of a Dedekind domain*, 37.

Gustafson, William H. *On an induction theorem for relative Grothendieck groups*, 26.

Heinzer, William. *Locally affine ring extensions of a noetherian domain*, 377.

Heinzer, William and Ohm, Jack. *The finiteness of I when $R[X]/I$ is R-flat*. II, 1.

Janusz, G. J. *The Schur index and roots of unity*, 387.

Kohn, Peter. *Ideals generated by three elements*, 55.

Tang, Hwa Tsang. *Gauss' lemma*, 372.

Vasconcelos, Wolmer V. *The local rings of global dimension two*, 381.

14. Algebraic Geometry

Efroymson, Gustave. *Henselian fields and solid k-varieties*. II, 362.

15. Linear and Multilinear Algebra; Matrix Theory (finite and infinite)

*DeMarr, Ralph. *Nonnegative matrices with nonnegative inverses*, 307.

Solazzi, Robert E. *On isomorphisms between certain congruence groups*, 405.

Suchan, Gerald E. *Operators associated with a pair of nonnegative matrices*, 53.

16. Associative Rings and Algebras

Albert, A. A. *Tensor products of quaternion algebras*, 65.

Boratyński, M. *Injective dimension and completeness*, 357.

Brown, William C. *A note on higher derivations and integral dependence*, 367.

Fuelberth, John D. and Teply, Mark L. *A splitting ring of global dimension two*, 317.

Hutchinson, John and Zelmanowitz, Julius. *Quotient rings of endomorphism rings of modules with zero singular submodule*, 16.
Monk, G. S. *A characterization of exchange rings*, 349.
Nico, William R. *An improved upper bound for global dimension of semigroup algebras*, 34.
Shock, Robert C. *Orders in self-injective cogenerator rings*, 393.

17. Nonassociative Rings and Algebras

Goldman, Jerry. *Nodal algebras defined by skew-symmetric bilinear forms*, 333.
McCrimmon, Kevin. *Quadratic Jordan algebras whose elements are all invertible or nilpotent*, 309.

18. Category Theory, Homological Algebra

Davis, Robert C. *Quasi-cotripleable categories*, 43.
Fuelberth, John D. and Teply, Mark L. *A splitting ring of global dimension two*, 317.
Gustafson, William H. *On an induction theorem for relative Grothendieck groups*, 26.

20. Group Theory and Generalizations

Baumslag, Gilbert. *A finitely presented metabelian group with a free abelian derived group of infinite rank*, 61.
Davitt, Richard M. and Otto, Albert D. *On the automorphism group of a finite modular p-group*, 399.
Gustafson, William H. *On an induction theorem for relative Grothendieck groups*, 26.
Hickin, K. K. and Plotkin, J. M. *On the equivalence of three local theorem techniques*, 389.
Hill, W. Mack and Wright, Charles R. B. *Normal subgroups contained in the Frattini subgroup*, 413.
Janusz, G. J. *The Schur index and roots of unity*, 387.
Nico, William R. *An improved upper bound for global dimension of semigroup algebras*, 34.
Shult, E. *A note on Janko's simple group of order* 175,560, 342.
Solazzi, Robert E. *On the isomorphisms between certain congruence groups*, 405.

B. Analysis

26. Real Functions

Lawrence, Scott and Segalman, Daniel. *A generalization of two inequalities involving means*, 96.

28. Measure and Integration

Gowrisankaran, Chandra. *Quasi-invariant Radon measures on groups*, 503.
Saworotnow, Parfeny P. *Integral as a certain type of a positive definite function*, 93.

30. Functions of a Complex Variable

Brickman, Louis. *Extremal problems for certain classes of analytic functions*, 67.
Coonce, H. B. and Ziegler, M. R. *The radius of close-to-convexity of functions of bounded boundary rotation*, 207.
McCarty, Carl P. *Functions with real part greater than* α, 211.
Taylor, B. A. and Williams, D. L. *Boundary zero sets of* A^∞ *functions satisfying growth conditions*, 155.

32. Several Complex Variables and Analytic Spaces

Barth, Theodore J. *The Kobayashi distance induces the standard topology*, 439.
Patterson, David B. *The Teichmüller spaces are distinct*, 179.

34. Ordinary Differential Equations

Bobisud, L. E. *Asymptotic behavior of solutions of perturbed linear systems*, 457.

Chiou, Kuo-liang. *The existence of oscillatory solutions for the equation* $d^2y/dt^2+q(t)y^r=0$, $0<r<1$, 120.

DeKleine, H. Arthur and Drobot, Vladimir. *Some unbounded functions of regular growth*, 471.

Evans, W. D. *On the length of gaps in the essential spectrum of a generalised Dirac operator*, 137.

Ford, Wayne T. *On the first boundary value problem for* $[h(x, x', t)]'=f(x, x', t)$, 491.

Gustafson, G. B. *Eventual disconjugacy of selfadjoint fourth order linear differential equations*, 187.

*Hochstadt, Harry. *On semibounded differential operators*, 298.

Komkov, Vadim. *On the location of zeros of second-order differential equations*, 217.

Lovelady, David Lowell and Martin, Robert H., Jr. *A global existence theorem for a nonautonomous differential equation in a Banach space*, 445.

McCann, Roger C. *Perturbed asymptotically stable sets*, 107.

———. *Total stability in nondifferentiable systems*, 112.

Sharma, R. R. *Existence of solutions of abstract measure differential equations*, 129.

Teufel, Hugo, Jr. *Second order almost linear functional differential equations—oscillation*, 117.

Wilson, H. K. *Gauge functions and limit sets for nonautonomous ordinary differential equations*, 487.

35. Partial Differential Equations

Freund, D. D. *A note on Kaplun limits and double asymptotics*, 464.

Strauss, Monty J. *Uniqueness and norm convexity in the Cauchy problem for evolution equations with convolution operators*, 423.

———. *Generalizations of results of Agmon and Nirenberg to the Cauchy problem for evolution equations*, 431.

40. Sequences, Series, Summability

Atalla, Robert E. *On the consistency theorem in matrix summability*, 416.

Sharma, N. K. *Spectra of conservative matrices*, 515

41. Approximations and Expansions

Freund, D. D. *A note on Kaplun limits and double asymptotics*, 464.

42. Fourier Analysis

*Blei, Ron C. *A note on some characterizations of Sidon sets*, 303.

Burnham, J. T. *Nonfactorization in subsets of the measure algebra*, 104.

Pollard, Harry. *The convergence almost everywhere of Legendre series*, 442.

Price, J. J. *Sparse subsets of orthonormal systems*, 161.

44. Integral Transforms, Operational Calculus

Fox, Charles. *Applications of Laplace transforms and their inverses*, 193.

Petersen, Bent E. *On the Laplace transform of a temperate distribution supported by a cone*, 123.

45. Integral Equations

Lew, John S. *On linear Volterra integral equations of convolution type*, 450.

Wheeler, Robert L. *A note on systems of linear integrodifferential equations*, 477.

46. Functional Analysis

Bazaraa, M. S., Goode, J. J. and Nashed, M. Z. *A nonlinear complementarity problem in mathematical programming in Banach space*, 165.

Brown, H. I., Kerr, D. R. and Stratton, H. H. *Corrections to "The structure of B[c] and extensions of the concept of conull matrix,"* 621.
*Chalice, Donald R. *On a theorem of Rudin*, 296.
Cohen, H. B., Labbe, M. A. and Wolfe, J. *Norm reduction of averaging operators*, 519.
Jenkins, J. W. *On the characterization of Abelian W*-algebras*, 436.
Koehler, Donald O. *The analytic properties of G_{2n} spaces*, 201.
Laison, Diane. *On W* embedding of AW*-algebras*, 499.
*Moore, Berrien III. *A factorable weight with zero Szegö infimum*, 301.
Petersen, Bent E. *On the Laplace transform of a temperate distribution supported by a cone*, 123.
Samn, Sherwood. *Existence of a seminormal basis in C*[0, 1], 183.
Shapiro, Joel H. *Noncoincidence of the strict and strong operator topologies*, 81.
Summers, W. H. *Separability in the strict and substrict topologies*, 507.
*Ylinen, Kari. *A note on the compact elements of C*-algebras*, 305.

47. Operator Theory

Bazaraa, M. S., Goode, J. J. and Nashed, M. Z. *A nonlinear complementarity problem in mathematical programming in Banach space*, 165.
Clark, Douglas N. *Commutants that do not dilate*, 483.
Fox, Charles. *Applications of Laplace transforms and their inverses*, 193.
Goebel, K. and Kirk, W. A. *A fixed point theorem for asymptotically nonexpansive mappings*, 171.
Gossez, Jean-Pierre. *On the range of a coercive maximal monotone operator in a nonreflexive Banach space*, 88.
Hanna, Michael P. *Generalized overrelaxation and Gauss-Seidel convergence on Hilbert space*, 524.
*Hochstadt, Harry. *On semibounded differential operators*, 298.
Howland, James S. *Nonexistence of asymptotic observables*, 175.
Klein, E. M. *The numerical range of a Toeplitz operator*, 101.
Kritt, Brian. *The Fourier transform of an unbounded spectral distribution*, 74.
Kurtz, Thomas G. *A random Trotter product formula*, 147.
Sato, Ryotaro. *On a general ratio ergodic theorem with weighted averages*, 177.

C. Applied Mathematics

65. Numerical Analysis

Hanna, Michael P. *Generalized overrelaxation and Gauss-Seidel convergence on Hilbert space*, 524.
Schultz, Martin H. *Error bounds for Galerkin's method for monotone operator equations*, 227.

81. Quantum Mechanics

Simon, Barry. *Continuum embedded eigenvalues in a spatially cutoff $P(\phi)_2$ field theory*, 223.

90. Economics, Operations Research, Programming, Games

Bazaraa, M. S., Goode, J. J. and Nashed, M. Z. *A nonlinear complementarity problem in mathematical programming in Banach space*, 165.
Peleg, Bezalel. *Topological properties of the efficient point set*, 531.

D. Geometry

52. Convex Sets and Geometric Inequalities

Hare, W. R., Jr. and Smith, C. R. *On convex subsets of a polytope*, 238.
Stolarsky, Kenneth B. *Sums of distances between points on a sphere*, 547.
Witsenhausen, H. S. *On closed curves in Minkowski spaces*, 240.

53. Differential Geometry

Brockett, R. W. and Sussmann, H. J. *Tangent bundles of homogeneous spaces are homogeneous spaces*, 550.

Hansen, Vagn Lundsgaard. *Integrably parallelizable manifolds*, 543.

Houh, Chorng-Shi. *On an integral formula for closed hypersurfaces of the sphere*, 234.

———. *Surfaces with maximal Lipschitz-Killing curvature in the direction of mean curvature vector*, 537.

Schneider, Rolf. *Closed convex hypersurfaces with second fundamental form of constant curvature*, 230.

E. Logic and Foundations

02. Logic and Foundations

Davis, Martin. *On the number of solutions of Diophantine equations*, 552.

04. Set Theory

Blass, Andreas. *Weak partition relations*, 249.

Zuckerman, Martin M. *Ordinal sum-sets*, 242.

F. Statistics and Probability

60. Probability Theory and Stochastic Processes

Heath, David C., Pruitt, William E. and Sudderth, William D. *Subfair red-and-black with a limit*, 555.

Huff, Barthel W. *Further comments on the continuity of distribution functions obtained by superposition*, 561.

G. Topology

22. Topological Groups, Lie Groups

Brown, Lawrence G. *Topologically complete groups*, 593.

Das, Mrinal Kanti. *Some properties of special functions derived from the theory of continuous transformation groups*, 565.

McCharen, John D. *Euclidean neighborhoods in compact semigroups*, 291.

54. General Topology

Cornette, J. L. and Lehman, B. *Another locally connected Hausdorff continuum not connected by ordered continua*, 281.

Green, John William. *Filter characterizations of C- and C*-embeddings*, 574.

Harris, Douglas. *Compact spaces and products of finite spaces*, 275.

Kannan, V. *A countable connected Urysohn space containing a dispersion point*, 289.

Martin, Harold W. *Metrization of symmetric spaces and regular maps*, 269.

Nanzetta, Philip and Plank, Donald. *Closed ideals in $C(X)$*, 601.

Schnare, Paul S. *The topological complementation theorem à la Zorn*, 285.

55. Algebraic Topology

Chapman, T. A. *Contractible Hilbert cube manifolds*, 254.

Feustel, C. D. *On embedding annuli in M^3*, 581.

Gordon, C. McA. and Heil, W. *Simply-connected branched coverings of S^3*, 287.

Lyon, Herbert C. *Knots without unknotted incompressible spanning surfaces*, 617.

57. Manifolds and Cell Complexes

Brockett, R. W. and Sussmann, H. J. *Tangent bundles of homogeneous spaces are homogeneous spaces*, 550.

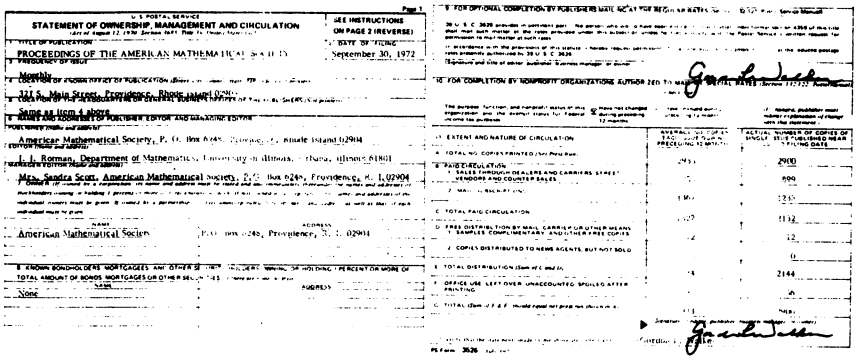
Erle, Dieter. *Smooth structure and signature of codimension 2 embeddings*, 611.

Feder, S. and Segal, D. M. *Immersions and embeddings of projective spaces*, 590.

Hansen, Vagn Lundsgaard. *Integrably parallelizable manifolds*, 543.
Hodgson, J. P. E. *The Whitney technique for Poincaré complex embeddings*, 263.
Knoblauch, Tom. *Toroidal arcs are cellular*, 607.
Rinne, Robert L. *$\hat{\lambda}$-equivariant bordism of maps*, 587.
Stong, R. E. *Map bordism of maps*, 259.
———. *A cobordism*, 584.

58. Global Analysis, Analysis on Manifolds

Strauss, Monty J. *Uniqueness and norm convexity in the Cauchy problem for evolution equations with convolution operators*, 423.
———. *Generalizations of results of Agmon and Nirenberg to the Cauchy problem of evolution equations*, 431.



U. S. POSTAL SERVICE
STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Act of August 12, 1970: Section 3685, Title 39, United States Code)

SEE INSTRUCTIONS ON PAGE 2 (REVERSE)

1. TITLE OF PUBLICATION: PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY
2. DATE OF FILING: September 30, 1972
3. FREQUENCY OF ISSUE: Monthly
4. LOCATION OF KNOWN OFFICE OF PUBLICATION: 321 S. Main Street, Providence, Rhode Island 02904
5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS: Same as item 4 above
6. NAMES AND COMPLETE MAILING ADDRESSES OF PUBLISHER, EDITOR, AND MANAGING EDITOR
PUBLISHER (Name and address): American Mathematical Society, P. O. Box 6248, Providence, Rhode Island 02904
EDITOR (Name and address): J. L. Kelley, Department of Mathematics, University of Illinois, Urbana, Illinois 61801
MANAGING EDITOR (Name and address): Mrs. Sandra Scott, American Mathematical Society, P. O. Box 6248, Providence, R. I. 02904
7. OWNER (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member, must be given.)
NAME: American Mathematical Society — ADDRESS: P. O. Box 6248, Providence, R. I. 02904
8. KNOWN BONDHOLDERS, MORTGAGEES, AND OTHER SECURITY HOLDERS OWNING OR HOLDING 1 PERCENT OR MORE OF TOTAL AMOUNT OF BONDS, MORTGAGES OR OTHER SECURITIES (If there are none, so state)
NAME: None — ADDRESS:

9. FOR OPTIONAL COMPLETION BY PUBLISHERS MAILING AT THE REGULAR RATES (Section 132.121, Postal Service Manual)
39 U. S. C. 3626 provides in pertinent part: The rates applicable under this subsection shall be available only with respect to mail matter of the kinds enumerated in the Periodical Publications Act of 1879 which is entered as periodical matter at the pound rates presently authorized by 39 U. S. C. 3626.
Signature and title of editor, publisher, business manager, or owner
10. FOR COMPLETION BY NONPROFIT ORGANIZATIONS AUTHORIZED TO MAIL AT SPECIAL RATES (Section 132.122, Postal Service Manual)
The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes: (Check one) ☐ Have not changed during preceding 12 months ☐ Have changed during preceding 12 months (If changed, publisher must submit explanation of change with this statement)

11. EXTENT AND NATURE OF CIRCULATION	AVERAGE NO. COPIES EACH ISSUE DURING PRECEDING 12 MONTHS	ACTUAL NUMBER OF COPIES OF SINGLE ISSUE PUBLISHED NEAREST TO FILING DATE
A. TOTAL NO. COPIES PRINTED (Net Press Run)	2931	2900
B. PAID CIRCULATION: 1. SALES THROUGH DEALERS AND CARRIERS, STREET VENDORS AND COUNTER SALES	[illegible]	800
2. MAIL SUBSCRIPTIONS	1867	1245
C. TOTAL PAID CIRCULATION	[illegible]07	2132
D. FREE DISTRIBUTION BY MAIL, CARRIER OR OTHER MEANS: 1. SAMPLES, COMPLIMENTARY, AND OTHER FREE COPIES	12	12
J. COPIES DISTRIBUTED TO NEWS AGENTS, BUT NOT SOLD		0
E. TOTAL DISTRIBUTION (Sum of C and D)	[illegible]4	2144
F. OFFICE USE, LEFT-OVER, UNACCOUNTED, SPOILED AFTER PRINTING	[illegible]	46
G. TOTAL (Sum of E & F—should equal net press run shown in A)	[illegible]	2190

I certify that the statements made by me above are correct and complete.
Signature and title of editor, publisher, business manager, or owner

PS Form 3526 [illegible]

AUTHOR INDEX

*Starred items are "Shorter Notes"

Albert, A. A. *Tensor products of quaternion algebras*, 65.
Atalla, Robert E. *On the consistency theorem in matrix summability*, 416.
Bang, C. M. *Isomorphism types of infinite symmetric graphs*, 31.
Barth, Theodore J. *The Kobayashi distance induces the standard topology*, 439.
Baumslag, Gilbert. *A finitely presented metabelian group with a free abelian derived group of infinite rank*, 61.
Bazaraa, M. S., Goode, J. J. and Nashed, M. Z. *A nonlinear complementarity problem in mathematical programming in Banach space*, 165.
Białynicki-Birula, A. *On subfields of countable codimension*, 354.
Blass, Andreas. *Weak partition relations*, 249.
*Blei, Ron C. *A note on some characterizations of Sidon sets*, 303.
Bobisud, L. E. *Asymptotic behavior of solutions of perturbed linear systems*, 457.
Boratyński, M. *Injective dimension and completeness*, 357.
Brickman, Louis. *Extremal problems for certain classes of analytic functions*, 67.
Brockett, R. W. and Sussmann, H. J. *Tangent bundles of homogeneous spaces are homogeneous spaces*, 550.
Brown, H. I., Kerr, D. R. and Stratton, H. H. *Corrections to "The structure of B[c] and extensions of the concept of conull matrix,"* 621.
Brown, Lawrence G. *Topologically complete groups*, 593.
Brown, William C. *An application of the algebra of differentials of infinite rank*, 9.
———. *A note on higher derivations and integral dependence*, 367.
Burnham, J. T. *Nonfactorization in subsets of the measure algebra*, 104.
*Chalice, Donald R. *On a theorem of Rudin*, 296.
Chapman, T. A. *Contractible Hilbert cube manifolds*, 254.
Cheatham, T. and Enochs, E. *The epimorphic images of a Dedekind domain*, 37.
Chiou, Kuo-liang. *The existence of oscillatory solutions for the equation* $d^2y/dt^2+q(t)y^r=0$, $0<r<1$, 120.
Clark, Douglas N. *Commutants that do not dilate*, 483.
Cohen, H. B., Labbe, M. A. and Wolfe, J. *Norm reduction of averaging operators*, 519.
Coonce, H. B. and Ziegler, M. R. *The radius of close-to-convexity of functions of bounded boundary rotation*, 207.
Cornette, J. L. and Lehman, B. *Another locally connected Hausdorff continuum not connected by ordered continua*, 281.
Das, Mrinal Kanti. *Some properties of special functions derived from the theory of continuous transformation groups*, 565.
Davis, Martin. *On the number of solutions of Diophantine equations*, 552.
Davis, Robert C. *Quasi-cotripleable categories*, 43.
Davitt, Richard M. and Otto, Albert D. *On the automorphism group of a finite modular p-group*, 399.
DeKleine, H. Arthur and Drobot, Vladimir. *Some unbounded functions of regular growth*, 471.
*DeMarr, Ralph. *Nonnegative matrices with nonnegative inverses*, 307.
Drobot, Vladimir. See DeKleine, H. Arthur.
Efroymson, Gustave. *Henselian fields and solid k-varieties*. II, 362.
Enochs, E. See Cheatham, T.

Erle, Dieter. *Smooth structure and signature of codimension 2 embeddings*, 611.
Evans, W. D. *On the length of gaps in the essential spectrum of a generalised Dirac operator*, 137.
Feder, S. and Segal, D. M. *Immersions and embeddings of projective spaces*, 590.
Feustel, C. D. *On embedding annuli in M^3*, 581.
Ford, Wayne T. *On the first boundary value problem for $[h(x, x', t)]' = f(x, x', t)$*, 491.
Fox, Charles. *Applications of Laplace transforms and their inverses*, 193.
Freund, D. D. *A note on Kaplun limits and double asymptotics*, 464.
Fuelberth, John D. and Teply, Mark L. *A splitting ring of global dimension two*, 317.
Goebel, K. and Kirk, W. A. *A fixed point theorem for asymptotically nonexpansive mappings*, 171.
Goldman, Jerry. *Nodal algebras defined by skew-symmetric bilinear forms*, 333.
Goode, J. J. See Bazaraa, M. S.
Gordon, C. McA. and Heil, W. *Simply-connected branched coverings of S^3*, 287.
Gossez, Jean-Pierre. *On the range of a coercive maximal monotone operator in a non-reflexive Banach space*, 88.
Gowrisankaran, Chandra. *Quasi-invariant Radon measures on groups*, 503.
Grätzer, G. and Lakser, H. *Two observations on the congruence extension property*, 63.
Green, John William. *Filter characterizations of C- and C*-embeddings*, 574.
Gustafson, G. B. *Eventual disconjugacy of selfadjoint fourth order linear differential equations*, 187.
Gustafson, William H. *On an induction theorem for relative Grothendieck groups*, 26.
Hanna, Michael P. *Generalized overrelaxation and Gauss-Seidel convergence on Hilbert space*, 524.
Hansen, Vagn Lundsgaard. *Integrably parallelizable manifolds*, 543.
Hare, W. R., Jr. and Smith, C. R. *On convex subsets of a polytope*, 238.
Harris, Douglas. *Compact spaces and products of finite spaces*, 275.
Heath, David C., Pruitt, William E. and Sudderth, William D. *Subfair red-and-black with a limit*, 555
Heil, W. See Gordon, C. McA.
Heinzer, William. *Locally affine ring extensions of a noetherian domain*, 377.
Heinzer, William and Ohm, Jack. *The finiteness of I when $R[X]/I$ is R-flat*. II, 1.
Hickin, K. K. and Plotkin, J. M. *On the equivalence of three local theorem techniques*, 389.
Hill, W. Mack and Wright, Charles R. B. *Normal subgroups contained in the Frattini subgroup*, 413.
*Hochstadt, Harry. *On semibounded differential operators*, 298.
Hodgson, J. P. E. *The Whitney technique for Poincaré complex embeddings*, 263.
Houh, Chorng-Shi. *On an integral formula for closed hypersurfaces of the sphere*, 234.
———. *Surfaces with maximal Lipschitz-Killing curvature in the direction of mean curvature vector*, 537.
Howland, James S. *Nonexistence of asymptotic observables*, 175.
Huff, Barthel W. *Further comments on the continuity of distribution functions obtained by superposition*, 561.
Hutchinson, John and Zelmanowitz, Julius. *Quotient rings of endomorphism rings of modules with zero singular submodule*, 16.
Janusz, G. J. *The Schur index and roots of unity*, 387.
Jenkins, J. W. *On the characterization of Abelian W*-algebras*, 436.
Joshi, V. S. *On the order of some error functions related to k-free integers*, 325.
Kannan, V. *A countable connected Urysohn space containing a dispersion point*, 289.

Kerr, D. R. See Brown, H. I.
Kirk, W. A. See Goebel, K.
Klein, E. M. *The numerical range of a Toeplitz operator*, 101.
Knoblauch, Tom. *Toroidal arcs are cellular*, 607.
Koehler, Donald O. *The analytic properties of G_{2n} spaces*, 201.
Kohn, Peter. *Ideals generated by three elements*, 55.
Komkov, Vadim. *On the location of zeros of second-order differential equations*, 217.
Kritt, Brian. *The Fourier transform of an unbounded spectral distribution*, 74.
Kurtz, Thomas G. *A random Trotter product formula*, 147.
Labbe, M. A. See Cohen, H. B.
Laison, Diane. *On W* embedding of AW*-algebras*, 499.
Lakser, H. See Grätzer, G.
Lawrence, Scott and Segalman, Daniel. *A generalization of two inequalities involving means*, 96.
Lehman, B. See Cornette, J. L.
Lew, John S. *On linear Volterra integral equations of convolution type*, 450.
Lovelady, David Lowell and Martin, Robert H., Jr. *A global existence theorem for a nonautonomous differential equation in a Banach space*, 445.
Lyon, Herbert C. *Knots without unknotted incompressible spanning surfaces*, 617.
McCann, Roger C. *Perturbed asymptotically stable sets*, 107.
———. *Total stability in nondifferentiable systems*, 112.
McCarty, Carl P. *Functions with real part greater than* α, 211.
McCharen, John D. *Euclidean neighborhoods in compact semigroups*, 291.
McCrimmon, Kevin. *Quadratic Jordan algebras whose elements are all invertible or nilpotent*, 309.
Martin, Harold W. *Metrization of symmetric spaces and regular maps*, 269.
Martin, Robert H., Jr. See Lovelady, David Lowell.
Monk, G. S. *A characterization of exchange rings*, 349.
*Moore, Berrien III. *A factorable weight with zero Szegö infimum*, 301.
Mordell, L. J. *Rational functions representing all residues* mod *p*. II, 411.
Nanzetta, Philip and Plank, Donald. *Closed ideals in $C(X)$*, 601.
Nashed, M. Z. See Bazaraa, M. S.
Nico, William R. *An improved upper bound for global dimension of semigroup algebras*, 34.
Ohm, Jack. See Heinzer, William.
Otto, Albert D. See Davitt, Richard M.
Patterson, David B. *The Teichmüller spaces are distinct*, 179.
Peleg, Bezalel. *Topological properties of the efficient point set*, 531.
Petersen, Bent E. *On the Laplace transform of a temperate distribution supported by a cone*, 123.
Plank, Donald. See Nanzetta, Philip.
Plotkin, J. M. See Hickin, K. K.
Pollard, Harry. *The convergence almost everywhere of Legendre series*, 442.
Price, J. J. *Sparse subsets of orthonormal systems*, 161.
Pruitt, William E. See Heath, David C.
Rinne, Robert L. *λ-equivariant bordism of maps*, 587.
Samn, Sherwood. *Existence of a seminormal basis in $C[0, 1]$*, 183.
Sato, Ryotaro. *On a general ratio ergodic theorem with weighted averages*, 177.
Saworotnow, Parfeny P. *Integral as a certain type of a positive definite function*, 93.
Schnare, Paul S. *The topological complementation theorem à la Zorn*, 285.

Schneider, Rolf. *Closed convex hypersurfaces with second fundamental form of constant curvature*, 230.
Schultz, Martin H. *Error bounds for Galerkin's method for monotone operator equations*, 227.
Segal, D. M. See Feder, S.
Segalman, Daniel. See Lawrence, Scott.
Shapiro, Joel H. *Noncoincidence of the strict and strong operator topologies*, 81.
Sharma, N. K. *Spectra of conservative matrices*, 515.
Sharma, R. R. *Existence of solutions of abstract measure differential equations*, 129.
Shock, Robert C. *Orders in self-injective cogenerator rings*, 393.
Shult, E. *A note on Janko's simple group of order* 175,560, 342.
Simon, Barry. *Continuum embedded eigenvalues in a spatially cutoff* $P(\phi)_2$ *field theory*, 223.
Smith, C. R. See Hare, W. R., Jr.
Solazzi, Robert E. *On the isomorphisms between certain congruence groups*, 405.
Spira, Robert. *Zeros of* $\zeta'(s)$ *in the critical strip*, 59.
Stolarsky, Kenneth B. *Sums of distances between points on a sphere*, 547.
Stong, R. E. *Map bordism of maps*, 259.
———. *A cobordism*, 584.
Stratton, H. H. See Brown, H. I.
Strauss, Monty J. *Uniqueness and norm convexity in the Cauchy problem for evolution equations with convolution operators*, 423.
———. *Generalizations of results of Agmon and Nirenberg to the Cauchy problem for evolution equations*, 431.
Suchan, Gerald E. *Operators associated with a pair of nonnegative matrices*, 53.
Sudderth, William D. See Heath, David C.
Summers, W. H. *Separability in the strict and substrict topologies*, 507.
Sussmann, H. J. See Brockett, R. W.
Tang, Hwa Tsang. *Gauss' lemma*, 372.
Taylor, B. A. and Williams, D. L. *Boundary zero sets of* A^∞ *functions satisfying growth conditions*, 155.
Teply, Mark L. See Fuelberth, John D.
Teufel, Hugo, Jr. *Second order almost linear functional differential equations—oscillation*, 117.
Vasconcelos, Wolmer V. *The local rings of global dimension two*, 381.
Weinberger, P. J. *A counterexample to an analogue of Artin's conjecture*, 49.
Wheeler, Robert L. *A note on systems of linear integrodifferential equations*, 477.
Williams, D. L. See Taylor, B.A.
Wilson, H. K. *Gauge functions and limit sets for nonautonomous ordinary differential equations*, 487.
Witsenhausen, H. S. *On closed curves in Minkowski spaces*, 240.
Wolfe, J. See Cohen, H. B.
Wright, Charles R. B. See Hill, W. Mack.
Wright, E. M. *The probability of connectedness of an unlabelled graph can be less for more edges*, 21.
*Ylinen, Kari. *A note on the compact elements of C*-algebras*, 305.
Zelmanowitz, Julius. See Hutchinson, John.
Ziegler, M. R. See Coonce, H. B.
Zuckerman, Martin M. *Ordinal sum-sets*, 242.

RESEARCH AND REVIEW JOURNALS PUBLISHED BY THE AMERICAN MATHEMATICAL SOCIETY

Bulletin of the American Mathematical Society

This journal is the official organ of the Society. It reports official acts of the Society and the details of its meetings. It contains some of the officially invited addresses presented before the Society, reviews of advanced mathematical books, and a department of research announcements.

The current issue of the journal lists editors to whom prospective publications should be addressed. Publication is bimonthly.

Transactions of the American Mathematical Society

This monthly journal is devoted entirely to research in pure and applied mathematics, and includes in general longer papers than those in the PROCEEDINGS.

The current issue of the journal lists editors to whom prospective publications should be addressed.

Mathematics of Computation

A journal devoted to original papers in numerical analysis, the application of numerical methods and high-speed calculator devices, the computation of mathematical tables, the theory of high-speed calculating devices and other aids to computation. In addition it publishes reviews and notes in these and related fields.

Prospective publications should be addressed to the Editor, Professor Eugene Isaacson, Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, New York 10012. The author may suggest the name of an editor for review of his paper.

Mathematical Reviews

This journal is devoted to abstracts and reviews of the current mathematical literature of the world. Currently publication is monthly; two volumes are published each year, each volume consisting of 6 regular issues plus an index issue. In each regular issue the abstracts and reviews are grouped under subject headings. Publication began in 1940.

Soviet Mathematics—Doklady

This bimonthly is a translation journal containing the entire pure mathematics section of the DOKLADY AKADEMII NAUK SSSR, the Reports of the Academy of Sciences of the USSR. The DOKLADY for a year contains about 500 articles, each about 4 pages long.

Mathematics of the USSR—Izvestija

This journal is a cover-to-cover translation of IZVESTIJA AKADEMII NAUK SSSR SERIJA MATEMATIČESKAJA, published bimonthly by the Academy of Sciences of the USSR. It is a journal of current research in all fields of pure mathematics. The translation is published bimonthly starting with Volume 1, Number 1, January-February 1967.

Mathematics of the USSR—Sbornik

This journal is a cover-to-cover translation of MATEMATIČESKIĬ SBORNIK (New Series), published monthly by the Moscow Mathematical Society and the Academy of Sciences of the USSR. It is a journal of current research in all fields of pure mathematics. The translation is published monthly starting with Volume 1, Number 1, January 1967.

Submission of Manuscript

Send papers directly to one of the editors listed under the subject field of the paper.

Algebra and algebraic number theory.

JOSEPH J. ROTMAN, Department of Mathematics, University of Illinois, Urbana, Illinois 61801

GEORGE B. SELIGMAN, Department of Mathematics, Yale University, New Haven, Connecticut 06520

Modern or classical analysis and analytic number theory.

JACOB FELDMAN, Department of Mathematics, University of California, Berkeley, California 94720

LEE A. RUBEL, Department of Mathematics, University of Illinois, Urbana, Illinois 61801

ALLEN L. SHIELDS, Department of Mathematics, University of Michigan, Ann Arbor, Michigan 48104

Algebraic geometry.

GEORGE B. SELIGMAN, Department of Mathematics, Yale University, New Haven, Connecticut 06520

Set-theoretic and general topology.

W. WISTAR COMFORT, Department of Mathematics, Wesleyan University, Middletown, Connecticut 06457

Algebraic topology and all other types of geometry.

GLEN E. BREDON, Department of Mathematics, Rutgers University, New Brunswick, New Jersey 08903

Applied mathematics, differential equations, and related areas of analysis.

FRED G. BRAUER, Department of Mathematics, University of Wisconsin, Madison, Wisconsin 53706

Probability, statistics, and related fields.

JAMES D. KUELBS, Department of Mathematics, 213 Van Vleck Hall, University of Wisconsin, Madison, Wisconsin 53706

Logic, set theory, and related areas.

ROBERT I. SOARE, Department of Mathematics, University of Illinois at Chicago Circle, Chicago, Illinois 60680

Combinatorics and related areas of discrete mathematics.

JAY R. GOLDMAN, School of Mathematics, University of Minnesota, Minneapolis, Minnesota 55455

All other communications should be addressed to the Managing Editor, JOSEPH J. ROTMAN, at the above address.

Reprints and Address Changes

Any inquiries concerning a paper which has been accepted for publication, including information regarding reprints or changes of address for mailing proof, should be sent directly to the Editorial Department, American Mathematical Society, P.O. Box 6248, Providence, Rhode Island 02940.

BCDEFGHIJ-AMS-89876543210