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, research problems and a department of research announcements.

The subscription price is $12.00 per annual volume of six numbers.

Invited Addresses offered for publication should be sent to Murray Gerstenhaber, School of Mathematics, Institute for Advanced Study, Princeton, New Jersey 08540.

Book Reviews should be sent to Felix Browder, Department of Mathematics, University of Chicago, Chicago, Illinois 60637.

Research Announcements should be sent to some member of the Council of the Society, and communicated by him to M. H. Protter, Department of Mathematics, University of California, Berkeley, California 94720.

All other communications to the editors should be sent to the Managing Editor, Felix Browder, at the above address.


Proceedings of the American Mathematical Society

This journal is devoted entirely to research in pure and applied mathematics and is devoted principally to the publication of original papers of moderate length. A department called Shorter Notes was established for the purpose of publishing very short papers of an unusually elegant and polished character, for which there is normally no other outlet.

Papers in algebra and number theory should be sent to Arthur P. Mattuck, Department of Mathematics, Massachusetts Institute of Technology, Cambridge, Massachusetts or Irving Reiner, Department of Mathematics, University of Illinois, Urbana, Illinois; in modern or classical analysis to Irving Glicksberg, Department of Mathematics, University of Washington, Seattle, Washington 98105 or to Maurice Heins, Mathematics Department, University of Illinois, Urbana, Illinois 61801; in geometry or topology to Eldon Dyer, Graduate Studies Division, City University of New York, 33 West, 42nd Street, New York, New York 10036; in applied mathematics, differential equations, and related areas of analysis to Wolfgang Wasow, Mathematics Department, University of Wisconsin, Madison, Wisconsin 53706; in probability, statistics, and related fields to Joshua Chover, Mathematics Department, University of Wisconsin, Madison, Wisconsin 53706; in logic, set theory, and related areas to W. W. Boone, Mathematics Department, University of Illinois, Urbana, Illinois 61801. All other communications should be addressed to the Managing Editor, Maurice Heins.

Transactions of the American Mathematical Society

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

Papers in analysis and applied mathematics should be sent to Louis Nirenberg, Courant Institute of Mathematical Sciences, New York University, New York, New York 10012; in topology to Franklin Peterson, Department of Mathematics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139; in algebra, number theory, and logic to D. A. Buchsbaum, Department of Mathematics, Brandeis University, Waltham, Massachusetts 02154; in geometry and abstract analysis to R. S. Palais, Department of Mathematics, Brandeis University, Waltham, Massachusetts 02154; in statistics and probability to H. P. McKean, Department of Mathematics, Rockefeller University, New York, New York 10021; in mathematical logic and foundations to Dana Scott, Department of Mathematics, Stanford University, Stanford, California 94305. All other communications to the editors should be addressed to the Managing Editor, Dana Scott.
Soviet Mathematics—Doklady

Soviet Mathematics—Doklady is a translation journal containing the entire pure mathematics section of the Doklady Akademi 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. Issued bimonthly.

Mathematical Reviews

This journal is devoted to abstracts and reviews of the current mathematical literature of the world. Two volumes of MATHEMATICAL REVIEWS will be published in 1967, Volume 33, and Volume 34. Each volume will consist 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.

Notices of the American Mathematical Society

This journal announces the programs of the meetings of the Society. It carries the abstracts of all contributed papers presented at the meetings of the Society and publishes news items of interest to mathematical scientists.

All communications should be addressed to the Editor, P.O. Box 6248, Providence, Rhode Island 02904. News items and insertions for each issue must be in the hands of the editor on or before the deadline for the abstracts for the papers to be presented in the meetings announced in that issue. These deadlines are published regularly on the back of the title page.

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.

Chinese Mathematics—Acta

This is a cover-to-cover translation into English of Acta Mathematica Sinica, a bimonthly published by Academia Sinica Peking, People's Republic of China. Acta Mathematica Sinica contains current research in all fields of pure mathematics.

New Publications

This quarterly journal announces new books and journals in all fields of higher mathematics, including a section on both forthcoming and recently published books. The information is acquired from several sources, such as pamphlets and catalogs received from publishers and book dealers from many parts of the world.
CONTENTS—Continued from back cover

Marvin Marcus. A theorem on rank with applications to mappings on symmetry classes of tensors .................................................. 675
J. P. E. Hodgson. Automorphisms of thickenings ............................. 678
A. H. Zemanian. The Weierstrass transformation of certain generalized functions .......................................................... 682
W. A. J. Luxemburg. Is every integral normal? ............................. 685
Ted Petrie. The weakly complex bordism of Lie groups .................. 689
L. Auslander and B. Kostant. Quantization and representations of solvable Lie groups ...................................................... 692
S. Gitler and M. Mahowald. The immersion of manifolds .............. 696
J. W. Neuberger. Symmetry in nonselfadjoint Sturm-Liouville systems ................................................................................. 701
Melvyn S. Berger. On nonlinear perturbations of the eigenvalues of a compact self-adjoint operator .............................................. 704
Bernard Pinchuk. Extremal problems for functions of bounded boundary rotation ................................................................. 708
Otto Forster. Some remarks on parallelizable Stein manifolds .......... 712
Louis Auslander and Gilbert Baumslag. Automorphism groups of finitely generated nilpotent groups ........................................... 716
D. R. McMillan, Jr. Strong homotopy equivalence of 3-manifolds .... 718
L. A. Coburn. The C*-algebra generated by an isometry ............... 722
Santiago López de Medrano. Involutions of homotopy spheres and homology 3-spheres ......................................................... 727
Theodore W. Wilcox. On the structure of maximally almost periodic groups .......................................................... 732
Merle E. Manis. Extension of valuation theory .............................. 735
F. T. Farrell. The obstruction to fibering a manifold over a circle .... 737
F. T. Farrell and W. C. Hsiang. H-cobordant manifolds are not necessarily homeomorphic ..................................................... 741
CONTENTS
September, 1967

Invited Address

B. H. Neumann. Varieties of groups.......................... 603

The June Meeting in Missoula............................... 614

Research Announcements

K. R. Meyer. Periodic points on diffeomorphisms........... 615
Gilbert Baumslag. Residually finite one-relator groups..... 618
Gilbert Baumslag. Some groups that are just about free.... 621
Mitchell H. Taibleson. Fourier series on the ring of integers in a $p$-series field.................................. 623
Maurice E. Gilmore. Complex Stiefel manifolds, some homotopy groups and vector fields.......................... 630
Jay H. Wolkowisky. A nonlinear Sturm-Liouville problem.. 634
J. L. Chrislock and T. Tamura. Subdirect products of semigroups and rectangular bands............................. 637
J. L. Johnson. Global continuous solutions of hyperbolic systems of quasi-linear equations......................... 639
Sam W. Young. Piecewise monotone polynomial interpolation 642
M. Mahowald and R. James Milgram. Embedding projective spaces......................................................... 644
A. Zachariou. A subalgebra of $\text{Ext}^\ast(A, Z_p)$.......... 647
Donald W. Kahn. Imbedding the stable homotopy category... 649
Ronald L. Lipsman. Uniformly bounded representations of $\text{SL}(2,\mathbb{C})$.............................................. 652
Lance W. Small. Semihereditary rings.......................... 656
C. R. Putnam. Wiener-Hopf operators and absolutely continuous spectra...................................................... 659
Ergun Ar. The solution spaces for integral equations of the scattering theory............................................. 663
J. L. Johnson and J. A. Smoller. Global solutions of certain hyperbolic systems of quasi-linear equations........... 666
Kyong T. Hahn and Josephine Mitchell. Generalization of Schwarz-Pick lemma to invariant volume in a Kähler manifold................................................................. 668
Ted Petrie. The Adams spectral sequence for $U^\ast(X, Z_p)$ and applications to Lie groups, etc........................ 671

Continued on inside back cover