
RUSSIAN TRANSLATION PROJECT

The project for translation of selected Russian papers on mathematics is being carried forward under a grant from the National Science Foundation. A new series of translations prepared under this grant will be published in the near future. Instead of being issued as separate reprints as in the past, the papers selected under the current grant will be published in three cloth-bound volumes with contents as shown below.

VOLUME 1

- Aleksandrov, P. S.** The present status of the theory of dimension. *Uspehi Mat. Nauk (N.S.)* 6, no. 5(45), 43–68 (1951).
- Kreĭn, M. G.** On an application of the fixed-point principle in the theory of linear transformations of spaces with an indefinite metric. *Uspehi Mat. Nauk (N.S.)* 5, no. 2(36), 180–190 (1950).
- Šilov, G. E.** On decomposition of a commutative normed ring in a direct sum of ideals. *Mat. Sbornik N.S.* 32(74), 353–364 (1953).
- Gel'fand, I. M., and Fomin, S. V.** Geodesic flows on manifolds of constant negative curvature. *Uspehi Mat. Nauk. (N.S.)* 7, No. 1(47), 118–137 (1952).
- Suvorov, G. D.** Prime ends of a sequence of plane regions converging to a nucleus. *Mat. Sbornik N.S.* 33(75), no. 1, 73–100 (1953).
- Pontryagin, L. S.** On zeros of some transcendental functions. *Izv. Akad. Nauk SSSR. Ser. Mat.* 6, 115–134 (1942).
- Gihman, I. I.** On the theory of differential equations of random processes. I, II. *Ukrain. Mat. Ž.* 2, no. 4, 37–63 (1950); 3, no. 3, 317–339 (1951).
- Kreĭn, M. G.** On certain problems on the maximum and minimum of characteristic values and on the Lyapunov zones of stability. *Prikl. Mat. Meh.* 15, 323–348 (1951).
- Staržinskii, V. M.** Survey of works on conditions of stability of the trivial solution of a system of linear differential equations with periodic coefficients. *Prikl. Mat. Meh.* 18, 469–510 (1954).
- Reĭzin', L. È.** Behavior near to a singular point of integral curves of a system of three differential equations. *Latvijas PSR Zinātņu Akad. Vēstis* 1951, no. 2(43) 333–346 (1951).
- Gel'fand, I. M., and Levitan, B. M.** On the determination of a differential equation from its special function. *Izv. Akad. Nauk SSSR. Ser. Mat.* 15, 309–360 (1951).

VOLUME 2

- Mal'cev, A. I.** On some classes of infinite soluble groups. *Mat. Sbornik N.S.* 28(70), 567–588 (1951).
-
-

-
-
- Kulikov, L. Ya.** On direct decompositions of groups. *Ukrain. Mat. Ž.* **4**, 230–275, 347–372 (1952).
- Golovin, O. N.** Nilpotent products of groups. *Mat. Sbornik N.S.* **27(69)**, 427–454 (1950).
- Golovin, O. N.** The metabelian products of groups. *Mat. Sbornik N.S.* **28(70)**, 431–444 (1951).
- Golovin, O. N.** On the isomorphism of nilpotent decompositions of groups. *Mat. Sbornik N.S.* **28(70)**, 445–452 (1951).
- Naïmark, M. A.** Description of all irreducible unitary representations of the classical groups. *Doklady Akad. Nauk SSSR (N.S.)* **84**, 883–886 (1952).
- Gel'fand, I. M., and Graev, M. I.** Unitary representations of the real unimodular group (principal nondegenerate series). *Izv. Akad. Nauk SSSR. Ser. Mat.* **17**, 189–248 (1953).
- Gel'fand, I. M., and Šapiro, Z. Ya.** Representations of the group of rotations in three-dimensional space and their applications. *Uspehi Mat. Nauk (N.S.)* **7**, no. 1(47), 3–117 (1952).

VOLUME 3

- Zykov, A. A.** The spectrum problem in the extended predicate calculus. *Izv. Akad. Nauk SSSR. Ser. Mat.* **17**, 63–76 (1953).
- Faddeev, D. K.** Simple algebras over a field of algebraic functions of one variable. *Trudy Mat. Inst. Steklov.* **38**, 321–344 (1951).
- Nečalov, V. I.** Waring's problem for polynomials. *Trudy Mat. Inst. Steklov.* **38**, 190–243 (1951).
- Linnik, Yu. V., and Malyšev, A. V.** Applications of the arithmetic of quaternions to the theory of ternary quadratic forms and to the decomposition of numbers into cubes. *Uspehi Mat. Nauk (N.S.)* **8**, no. 5(57), 3–71 (1953).
- Val'fiž [Walfisz], A. Z.** On the representation of numbers by sums of squares. Asymptotic formulas. *Uspehi Mat. Nauk (N.S.)* **7**, no. 6(52), 97–178 (1952).

The volumes will be printed by photo-offset from vari-typed copy. The initial edition will be stocked and sold by the American Mathematical Society in the same manner as its other publications. The first volume will appear in the fall of 1955, the other two during the winter. The anticipated prices for the three volumes are, respectively, \$3.60, 3.70, 3.30 (25% discount to members of the Society). Orders should be sent to the Society.

AMERICAN MATHEMATICAL SOCIETY
80 Waterman Street
Providence 6, Rhode Island

MEMOIRS
of the
 AMERICAN MATHEMATICAL SOCIETY

- | | |
|--|--------|
| 1. G. T. Whyburn, <i>Open mappings on locally compact spaces</i> . ii, 25 pp. 1950. | \$0.75 |
| 2. J. Dieudonné, <i>On the automorphisms of the classical groups</i> , with a supplement by L. K. Hua. viii, 122 pp. 1951. | 1.80 |
| 3. H. D. Ursell and L. C. Young, <i>Remarks on the theory of prime ends</i> . 29 pp. 1951. | 1.00 |
| 4. K. Ito, <i>On stochastic differential equations</i> . 51 pp. 1951. | 1.00 |
| 5. O. Zariski, <i>Theory and applications of holomorphic functions on algebraic varieties over arbitrary ground fields</i> . 90 pp. 1951. | 1.40 |
| 6. K. L. Chung, M. D. Donsker, P. Erdős, W. H. J. Fuchs, and M. Kac, <i>Four papers on probability</i> . ii, 12 + 19 + 11 + 12 pp. 1951. | 1.20 |
| 7. R. V. Kadison, <i>A representation theory for commutative topological algebra</i> . 39 pp. 1951. | 1.00 |
| 8. J. W. T. Youngs, <i>The representation problem for Fréchet surfaces</i> . 143 pp. 1951. | 1.80 |
| 9. I. E. Segal, <i>Decompositions of operator algebras</i> . I and II. 67 + 66 pp. 1951. | 1.80 |
| 10. S. C. Kleene, <i>Two papers on the predicate calculus</i> . 68 pp. 1952. | 1.30 |
| 11. E. A. Michael, <i>Locally multiplicatively-convex topological algebras</i> . 79 pp. 1952. | 1.40 |
| 12. S. Karlin and L. S. Shapley, <i>Geometry of moment spaces</i> . 93 pp. 1953. | 1.50 |
| 13. Walter Strodts, <i>Contributions to the asymptotic theory of ordinary differential equations in the complex domain</i> . 81 pp. 1954. | 1.50 |
| 14. <i>Lie algebras and Lie groups</i> . Five papers prepared in connection with the First Summer Mathematical Institute. vi, 54 pp. 1955. | 1.30 |
| 15. I. I. Hirschman, <i>The decomposition of Walsh and Fourier series</i> . 65 pp. 1955. | 1.40 |
| 16. Alexandre Grothendieck, <i>Produits tensoriels topologiques et espaces nucléaires</i> . 191 + 140 pp. 1955. | 2.80 |
| 17. L. C. Young, <i>On generalized surfaces of finite topological types</i> . 63 pp. 1955. | 1.30 |

The price to members of the American Mathematical Society is 25% less than list.

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, with abstracts of all research papers presented. It contains some of the officially invited addresses presented before the Society, and reviews of advanced mathematical books.

The subscription price is \$7.00 per annual volume of six numbers.

Invited addresses offered for publication should be sent to G. B. PRICE, 215 Strong Hall, University of Kansas, Lawrence, Kan.; research problems to W. T. MARTIN, Room 2-255, Massachusetts Institute of Technology, Cambridge 39, Mass.; book reviews to R. P. BOAS, JR., Lunt Hall, Northwestern University, Evanston, Ill. All other communications to the editors should be addressed to the Managing Editor, W. T. MARTIN.

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. The subscription price is \$11.00 per annual volume of six numbers.

Papers in algebra and theory of numbers should be sent to RICHARD BRAUER, Harvard University, Cambridge 38, Mass.; in analysis to A. C. SCHAEFFER, University of Wisconsin, Madison 6, Wis.; in other fields to SHIZUO KAKUTANI, Leet Oliver Memorial Hall, Yale University, New Haven 11, Conn. All other communications to the editors should be addressed to the Managing Editor, A. C. SCHAEFFER.

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.

Three volumes of two numbers each will be published in 1955. The subscription price is \$6.00 per volume.

Papers in algebra, number theory, logic and foundations should be sent to SAMUEL EILENBERG, Columbia University, New York 27, N. Y.; in probability, theory of measure, real variables to J. L. DOOB, Department of Mathematics, University of Illinois, Urbana, Ill.; other papers in analysis and applied mathematics to L. V. AHLFORS, Department of Mathematics, Harvard University, Cambridge 38, Mass., in geometry and topology to LEO ZIPPIN, Queens College, Flushing 67, N. Y. All other communications to the editors should be addressed to the Managing Editor, L. V. AHLFORS.

Memoirs of the American Mathematical Society

This series is devoted to the publication of research monographs in pure and applied mathematics. The memoirs are issued serially, but not periodically. Each issue consists of either a single monograph or a group of cognate papers and is priced separately according to size and cost of publication. The editorial standards for acceptance are the same as for the TRANSACTIONS and manuscripts intended for publication should be submitted to the appropriate editor of the TRANSACTIONS.

Mathematical Reviews

This journal contains abstracts and reviews of the current mathematical literature of the world. It is sponsored by thirteen mathematical organizations, located both in the United States and abroad.

MATHEMATICAL REVIEWS is published monthly, excepting July. The subscription price is \$20.00 per annual volume of eleven numbers.

OFFICIAL COMMUNICATIONS



MEETINGS OF THE SOCIETY

Abstracts for all meetings of the Society should be sent to the American Mathematical Society, 80 Waterman St., Providence 6, R.I.

COLLEGE PARK, MARYLAND, October 22, 1955.

Abstracts must be received not later than September 8. By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings there will be an address by Professor Paul Olum entitled *The fundamental problem of topology for 2-manifolds*.

LOS ANGELES, CALIFORNIA, November 12, 1955.

Abstracts must be received not later than October 5. By invitation of the Committee to Select Hour Speakers for Far Western Sectional Meetings there will be an address by Professor P. R. Garabedian entitled *The mathematical theory of three-dimensional cavities and jets*.

KNOXVILLE, TENNESSEE, November 18-19, 1955.

Abstracts must be received not later than October 12. By invitation of the Committee to Select Hour Speakers for Southeastern Sectional Meetings there will be an address by Professor S. T. Hu.

MILWAUKEE, WISCONSIN, November 25-26, 1955.

Abstracts must be received not later than October 12. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings there will be an address by Professor E. H. Spanier.

ANNUAL MEETING, HOUSTON, TEXAS, December 27-30, 1955.

Abstracts must be received not later than November 14. The Gibbs Lecture will be delivered by Professor J. E. Mayer.

NEW YORK CITY, February 25, 1956.

Abstracts must be received not later than January 12. By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings there will be an address by Professor Everett Pitcher.

E. G. BEGLE, *Secretary of the Society*