BULLETIN

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

TOMLINSON FORT SAUNDERS MACLANE LAWRENCE MURRAY GRAVES PAUL ALTHAUS SMITH

WITH THE ASSISTANCE OF

P. O. BELL J. H. CURTISS O. F. G. SCHILLING GARRETT BIRKHOFF D. H. LEHMER J. A. SHOHAT

W. B. CARVER MORRIS MARDEN VIRGIL SNYDER

VOLUME 49, NUMBER 11 NOVEMBER, 1943

PUBLISHED BY THE SOCIETY MENASHA, WIS., AND NEW YORK

AMERICAN MATHEMATICAL SOCIETY

Mail Address: Low Memorial Library, 531 West 116th Street, New York, 27, N. Y., for the Secretary, Treasurer, Librarian, and Office Manager.

Office: Room 305, Low Memorial Library, 531 West 116th Street, New York, 27, N.Y.

President: Professor M. H. Stone, Harvard University, Cambridge, 38, Mass.

Secretary: Professor J. R. Kline, University of Pennsylvania, Philadelphia, 4, Pa.

- Associate Secretaries: Professor W. L. Ayres, Purdue University, Lafayette, Ind.; Professor T. R. Hollcroft, Wells College, Aurora, N. Y.; Dean M. H. Ingraham, University of Wisconsin, Madison, 6, Wis.; Professor A. D. Michal, California Institute of Technology, Pasadena, 4, Calif.
- Treasurer: Professor B. P. Gill, Low Memorial Library, 531 West 116th Street, New York, 27, N. Y.
- Librarian: Professor Arnold Dresden, Swarthmore College, Swarthmore, Pa.
- Office Manager: Miss Evelyn M. Hull, Low Memorial Library, 531 West 116th Street, New York, 27, N. Y.
- Managing Editor of the Bulletin: Dean Tomlinson Fort, Lehigh University, Bethlehem, Pa.
- Managing Editor of the Transactions: Professor Einar Hille, Yale University, New Haven, Conn.
- Editors of Mathematical Reviews: Professors Otto Neugebauer and J. D. Tamarkin, Brown University, 12, Providence, R. I., and Professor Oswald Veblen, Institute for Advanced Study, Princeton, N. J.
- Chairman, Colloquium Editorial Committee: Professor G. T. Whyburn, University of Virginia, Charlottesville, Va.
- Editors of American Journal of Mathematics: Professor G. D. Birkhoff, Harvard University, Cambridge, 38, Mass.; Professor F. D. Murnaghan, Johns Hopkins University, Baltimore, 18, Md.; Professor Hermann Weyl, Institute for Advanced Study, Princeton, N. J.; Professor R. L. Wilder, University of Michigan, Ann Arbor, Mich.; and Professor Aurel Wintner, Johns Hopkins University, Baltimore, 18, Md.

THE BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY is published monthly. Price per annual volume, \$9.00. Subscriptions, orders for back numbers, and inquiries in regard to nondelivery of current numbers should be addressed to the American Mathematical Society, 450 Ahnaip Street, Menasha, Wis., or Low Memorial Library, 531 West 116th Street, New York, 27, N. Y.

Entered as second class matter April 24, 1926 at the post office at Menasha, Wis., under the act of August 24, 1912. Acceptance for mailing at the special rate of postage provided for in the act of February 28, 1925, embodied in paragraph 4, section 538, P. L. and R., authorized May 9, 1935.