# BULLETIN

OF THE

# AMERICAN MATHEMATICAL SOCIETY

#### EDITED BY

ABRAHAM ADRIAN ALBERT

TOMLINSON FORT

LAWRENCE MURRAY GRAVES PAUL ALTHAUS SMITH

## WITH THE ASSISTANCE OF

P. O. BELL J. L. DOOB J. A. SHOHAT GARRETT BIRKHOFF W. B. CARVER MORRIS MARDEN VIRGIL SNYDER

O. F. G. SCHILLING MORGAN WARD

**VOLUME 48, NUMBER 7** JULY, 1942

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

### AMERICAN MATHEMATICAL SOCIETY

- Mail Address: Low Memorial Library, 531 West 116th Street, New York, N. Y., for the Secretary, Treasurer, Librarian, and Office Manager.
- Office: Room 305, Low Memorial Library, 531 West 116th Street, New York, N. Y.
  - President: Professor Marston Morse, Institute for Advanced Study, Princeton, N. J.
  - Secretary: Professor J. R. Kline, University of Pennsylvania, Philadelphia, Pa.
  - Associate Secretaries: Professor W. L. Ayres, Purdue University, Lafayette, Ind.; Professor T. R. Hollcroft, Wells College, Aurora, N. Y.; Professor M. H. Ingraham, University of Wisconsin, Madison, Wis.; Dean T. M. Putnam, University of California, Berkeley, Calif. (Professor A. D. Michal, California Institute of Technology, Pasadena, Calif., Acting Associate Secretary during the period of illness of Dean Putnam).
  - Treasurer: Professor B. P. Gill, Low Memorial Library, 531 West 116th Street, New York, 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, 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 O. E. Neugebauer and J. D. Tamarkin, Brown University, Providence, R. I., and Professor Oswald Veblen, Institute for Advanced Study, Princeton, N. J.
  - Chairman, Colloquium Editorial Committee: Professor J. D. Tamarkin, Brown University, Providence, R. I.
  - Editors of American Journal of Mathematics: Professors F. D. Murnaghan and Oscar Zariski, Johns Hopkins University, Baltimore, Md.; Professors T. H. Hildebrandt and R. L. Wilder, University of Michigan, Ann Arbor, Mich.; and Professor Hermann Weyl, Institute for Advanced Study, Princeton, N. J.

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, 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 528, P. L. and R., authorized May 9, 1935.