BULLETIN

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

RUDOLPH ERNEST LANGER
PAUL ALTHAUS SMITH

SAUNDERS MACLANE ELLIS B. STOUFFER

WITH THE ASSISTANCE OF

R. H. BRUCK
IRVING KAPLANSKY
J. C. OXTOBY

R. H. CAMERON D. H. LEHMER J. H. CURTISS E. R. LORCH LEO ZIPPIN

VOLUME 51, NUMBER 9 SEPTEMBER, 1945

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 T. H. Hildebrandt, University of Michigan, Ann Arbor, Mich.
 - Secretary: Professor J. R. Kline, University of Pennsylvania, Philadelphia 4, Pa.
 - Associate Secretaries: Professor W. L. Ayres, Purdue University, Lafayette, Ind.; Professor R. H. Bruck, University of Wisconsin, Madison 6, Wis.; Professor T. R. Hollcroft, Wells College, Aurora, N. Y.; Professor A. C. Schaeffer, Stanford University, Stanford University, Calif.
 - Treasurer: Professor B. P. Gill, College of the City of New York, New York 31, 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: Professor P. A. Smith, Columbia University, New York 27, N. Y.
 - Managing Editor of the Transactions: Professor A. A. Albert, University of Chicago, Chicago 37, Ill.
 - Editors of Mathematical Reviews: Professor Otto Neugebauer, Brown University, Providence 12, 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.
 - Mathematical Surveys Editorial Committee: Professor A. A. Albert, University of Chicago, Chicago, Ill., and Professor Nelson Dunford, Yale University, New Haven, Conn.
 - Editors of American Journal of Mathematics: Professor Richard Brauer, University of Toronto, Toronto, Ont., Canada; Professor F. D. Murnaghan, Johns Hopkins University, Baltimore 18, Md.; Professor Hermann Weyl, Institute for Advanced Study, Princeton, N. J.; Professor Hassler Whitney, Harvard University, Cambridge 38, Mass.; 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.