

**BULLETIN**  
OF THE  
**AMERICAN MATHEMATICAL SOCIETY**

EDITED BY

ABRAHAM ADRIAN ALBERT

TOMLINSON FORT

LAWRENCE MURRAY GRAVES

PAUL ALTHAUS SMITH

WITH THE ASSISTANCE OF

H. T. DAVIS

G. A. HEDLUND

J. R. KLINE

H. W. KUHN

VIRGIL SNYDER

VOLUME 45, NUMBER 11

NOVEMBER, 1939

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 G. C. Evans, University of California, Berkeley, Calif.

**Secretary:** Dean R. G. D. Richardson, Brown University, Providence, R.I.

**Associate Secretaries:** Professor W. L. Ayres, University of Michigan, Ann Arbor, Mich.; 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.

**Treasurer:** Professor B. P. Gill, Low Memorial Library, 531 West 116th Street, New York, N.Y.

**Librarian:** Professor R. C. Archibald, Brown University, Providence, R.I.

**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 W. C. Graustein, Harvard University, Cambridge, Mass.

**Chairman, Colloquium Editorial Committee:** Professor J. D. Tamarkin, Brown University, Providence, R.I.

**Managing Editor of the American Journal of Mathematics:** Professor Abraham Cohen, Johns Hopkins University, Baltimore, 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, N.Y.