BULLETIN

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

EARLE R. HEDRICK DAVID R. CURTISS WI

WILLIAM R. LONGLEY

WITH THE ASSISTANCE OF

HAROLD T. DAVIS HA THEOPHIL H. HILDEBRANDT DE JOHN R. KLINE HE CAROLINE E. SEELY

HARRY W. KUHN DERRICK N. LEHMER HENRY L. RIETZ

VOLUME XXXVII, NUMBER 4

April, 1931

PUBLISHED BY THE SOCIETY MENASHA, WIS., AND NEW YORK 1931

PUBLISHED MONTHLY

Whole No. 379

\$9.00 a Year

Entered as second class matter at the post office at Menasha, Wis., under the act of August 24, 1912.

PUBLICATIONS OF THIS SOCIETY

- THE TRANSACTIONS. To members, \$6.75; to others, \$9.00.
 Volumes 1-14 and 16-21: to members, \$5.00; to others, \$7.00.
 Volumes 15, and 22-32: to members, \$6.00; to others, \$8.00.
- II. THE BULLETIN. To non-members, \$9.00. Members of the Society receive the Bulletin if they have paid their dues, \$5.00 of which is for subscription to the Bulletin. Volumes 1-11 (and the three volumes of the Bulletin of the New York Mathematical Society), are out of print. The Society is glad to receive odd volumes or even odd numbers of these volumes. Volumes 12-36: to members, \$5.25; to others, \$7.00.
- III. THE AMERICAN JOURNAL OF MATHEMATICS Published by this Society and the Johns Hopkins University. Send orders to The Johns Hopkins Press. To members, \$5.75; to others, \$7.50. Complete sets (50 volumes): \$350.00.

IV. THE COLLOQUIUM PUBLICATIONS. Published in December, 1930:
S. Lefschetz, *Topology*, \$4.50. (Volume XII of the Colloquium Series.) To appear early in 1931:
O. Veblen, *Analysis Situs*. Second edition. \$2.00. (Part II of Volume V of the Colloquium Series.) For earlier issues see a fly-leaf of the March issue.

> Orders may be addressed to 450-458 AHNAIP ST., MENASHA, WIS., OR 501 WEST 116TH STREET, NEW YORK, N.Y.

On sale also by the following official agents of this Society: Bowes & Bowes, 1 Trinity St., Cambridge, England.

Hirschwaldsche Buchhandlung, Unter den Linden, 68, Berlin.

Librairie Scientifique Albert Blanchard, 3 bis, Place de la Sorbonne, Paris, V, France.

Libreria Editrice Nicola Zanichelli, Bologna, Italy.