

TRANSACTIONS

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

WILLIAM C. GRAUSTEIN

EINAR HILLE

C. C. MACDUFFEE

WITH THE COÖPERATION OF

A. A. ALBERT
T. H. HILDEBRANDT
MARSTON MORSE
H. P. ROBERTSON
GABRIEL SZEGÖ

ERIC T. BELL
E. P. LANE
OYSTEIN ORE
M. H. STONE
G. T. WHYBURN

JESSE DOUGLAS
R. E. LANGER
H. L. RIETZ
J. L. SYNGE
OSCAR ZARISKI

VOLUME 43
JANUARY TO JUNE, 1938

PUBLISHED BY THE SOCIETY
MENASHA, WIS., AND NEW YORK
1938

Reprinted with the permission of The American Mathematical Society

JOHNSON REPRINT CORPORATION
111 Fifth Avenue, New York, N. Y. 10003

JOHNSON REPRINT COMPANY LIMITED
Berkeley Square House, London, W. 1

First reprinting, 1964, Johnson Reprint Corporation

PRINTED IN THE UNITED STATES OF AMERICA

TABLE OF CONTENTS

VOLUME 43, JANUARY TO JUNE, 1938

AGNEW, R. P., of Ithaca, N. Y. Comparison of products of methods of summability.....	327
AHLFORS, L. V., of Cambridge, Mass. An extension of Schwarz's lemma..	359
ALBERT, A. A., of Chicago, Ill. Symmetric and alternate matrices in an arbitrary field, I.....	386
BERNSTEIN, B. A., of Berkeley, Calif. Postulates for abelian groups and fields in terms of non-associative operations.....	1
BIRKHOFF, G., of Cambridge, Mass. Analytical groups.....	61
BLISS, G. A., of Chicago, Ill. Normality and abnormality in the calculus of variations.....	365
CARLITZ, L., of Durham, N. C. A class of polynomials.....	167
DE CICCIO, J., of New York, N. Y. The geometry of whirl series.....	344
FRIEDMAN, B., of Cambridge, Mass. Analyticity of equilibrium figures of rotation.....	183
GORE, G. D., of Chicago, Ill. Transformations of a surface bearing a family of asymptotic curves.....	303
IYER, V. G., of Madras, S. India. A correction to the paper "On effective sets of points in relation to integral functions".....	494
JAMES, R. D., of Berkeley, Calif. A problem in additive number theory..	296
LEHMER, D. H., of Bethlehem, Pa. On the series for the partition function	271
LEVINSON, N., of Princeton, N. J. On the growth of analytic functions..	240
LEWY, H., of Berkeley, Calif. On differential geometry in the large, I. (Minkowski's problem).....	258
—— Generalized integrals and differential equations.....	437
LUBBEN, R. G., of Austin, Texas. Concerning limiting sets in abstract spaces, II.....	482
MACLANE, S., of Ithaca, N. Y. The Schönemann-Eisenstein irreducibility criteria in terms of prime ideals.....	226
MILGRAM, A. N., of Philadelphia, Pa. Decompositions and dimension of closed sets in R^n	465
MORREY, C. B., of Berkeley, Calif. On the solutions of quasi-linear elliptic partial differential equations.....	126
ORE, O., of New Haven, Conn. On functions with bounded derivatives..	321
PORITSKY, H., of Schenectady, N. Y. Generalizations of the Gauss law of the spherical mean.....	199
RANDELS, W. C., of Evanston, Ill. On an approximate functional equation of Paley.....	102
SINGER, J., of Brooklyn, N. Y. A theorem in finite projective geometry and some applications to number theory.....	377
WIDDER, D. V., of Cambridge, Mass. The Stieltjes transform.....	7