

PROCEEDINGS
OF
THE EDINBURGH MATHEMATICAL SOCIETY

SERIES 2—VOL. I—PART II

EDITED BY

Professor T. M. MACROBERT, M.A., D.Sc.

AND

Professor H. W. TURNBULL, M.A.

CONTENTS

	PAGE
SKETCH OF THE HISTORY OF MATHEMATICS IN SCOTLAND TO THE END OF THE 18TH CENTURY. PART II: G. A. GIBSON	71
THE SOLUTION OF CAUCHY'S PROBLEM FOR LINEAR PARTIAL DIFFERENTIAL EQUATIONS, WITH CONSTANT COEFFICIENTS, BY MEANS OF INTEGRALS INVOLVING COMPLEX VARIABLES: C. A. STEWART	94
A SPECIAL PENCIL OF BINARY QUARTICS: R. VAIDYANATHASWAMY ...	104
ON DIFFERENTIATING A MATRIX: H. W. TURNBULL	111
ON HARDY'S THEORY OF M-FUNCTIONS: E. T. COPSON	129
ON THE LATENT ROOTS OF CERTAIN MATRICES: A. C. AITKEN ...	134

Issued March 1928

EDINBURGH:

PRINTED BY LINDSAY & CO., 17 BLACKFRIARS STREET,

AND PUBLISHED FOR THE SOCIETY BY

G. BELL & SONS, LTD., PORTUGAL STREET, LONDON, W.C. 2

THE EDINBURGH MATHEMATICAL SOCIETY is instituted for the promotion and extension of Mathematical Science—Pure and Applied.

It consists of Ordinary and Honorary Members.

Candidates for admission as Ordinary Members are proposed and seconded at one ordinary meeting of the Society, and balloted for at the next, a majority of at least two-thirds of the members present being necessary for election.

The Annual Subscription for ordinary membership is ten shillings. Any Ordinary Member may compound for his Annual Subscription by the payment of six guineas in one sum, subject to a reduction of one guinea after ten years' membership and a reduction of one guinea for each subsequent five years' membership of the Society.

The Council of the Society may nominate as Honorary Members persons eminently distinguished in the Mathematical Sciences. The mode of election is, otherwise, the same as for Ordinary Members.

Each Member whose Subscription is not in arrears receives the *Proceedings* and the *Mathematical Notes* as published.

Members wishing to complete their sets can have back volumes—so far as these are in print—on application to the Hon. Secretary, on payment of five shillings per volume, in addition to postages. Other intending purchasers of volumes of *Proceedings* should apply to the Publishers, G. BELL & SONS, LTD.

Presents to the Library of the Edinburgh Mathematical Society should be addressed to the

HON. LIBRARIAN, EDINBURGH MATHEMATICAL SOCIETY,
16 CHAMBERS STREET, EDINBURGH.

All papers and other communications should be sent to the
HON. SECRETARY,
EDINBURGH MATHEMATICAL SOCIETY,
16 CHAMBERS STREET, EDINBURGH.