

PROCEEDINGS
OF
THE EDINBURGH MATHEMATICAL SOCIETY

SERIES 2—VOL. 6—PART II

EDITED BY
F. BATH, B.Sc., Ph.D.
J. M. HYSLOP, M.A., Ph.D., D.Sc.

CONTENTS

	PAGE
THE EXPRESSION OF AN INFINITE LOWER SEMI-MATRIX IN TERMS OF ITS IDEMPOTENT AND NILPOTENT ELEMENTS: C. E. GURR	61
AN INFINITE INTEGRAL FORMULA: C. G. LAMBE	75
AN EXTENSION OF DE LONGCHAMPS' CHAIN OF THEOREMS: H. W. RICHMOND	78
ON THE EXTENSION OF FERMAT'S THEOREM TO MATRICES OF ORDER n : J. B. MARSHALL	85
A SELF-RECIPROCAL FUNCTION: BRIJ MOHAN	92
TWO INFINITE INTEGRALS: A. ERDELYI	94
A CLOSED DIMENSIONLESS LINEAR SET: E. BEST	105
COMPLÉMENTS À UN THÉOREME DE T. S. BRODERICK CONCERNANT LES ÉVÉNEMENTS DÉPENDANTS: MAURICE FRECHET	109
SOME THEOREMS ON ABSOLUTE CESÀRO SUMMABILITY: J. M. HYSLOP ...	114

Issued October 1939

EDINBURGH:
PRINTED BY LINDSAY & CO., LTD., 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 Committee 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 of the *first* series of *Proceedings* 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.