## PROCEEDINGS

#### OF

# THE EDINBURGH MATHEMATICAL SOCIETY

## SERIES 2-VOL. 8-PART III

#### EDITED BY

J. COSSAR AND D. N. LAWLEY

#### CONTENTS

PAGE

THE	EVALUATION OF PROBABILITIES IN A NORMAL	L MULTIV	ARIATE I	018-	
	TRIBUTION, WITH SPECIAL REFERENCE TO THE	CORRELA	TION RAT	: 010	
	M. H. QUENOUILLE				95
On	a System of Equations: H. Sircar		444	***	101
On	THE PFAFFIAN INVARIANT OF A SKEW-SYM	METRIC ]	MATRIX :		
	H. Schwerdtfeger			***	106
On	NON-ASSOCIATIVE SYSTEMS: A. ROBINSON			***	111
On	A CLASS OF ARRANGEMENTS: C. RADHAKRISHNA	A RAO			119
AN	INVERSION FORMULA FOR THE GENERALISED	LAPLACE	TRANSFO	вм :	
	R. S. VARMA		***		126
On	Absolute Lambert Sums: Aurel Wintner				128
ON	THE ANALYSIS OF THE KRONECKER PRODUCT OF	IRREDUC	DIBLE REI	PRR-	
*	SENTATIONS OF THE SYMMETRIC GROUP : RAGY I	H. MARAN	R'	***	133
Equ	AL SUMS OF LIKE POWERS; E. M. WRIGHT				138
Ox	A TATREPOLAN THROPPH OF G BLOOT C T	RATICOP			143

### **Issued December 1949**

#### EDINBURGH:

PRINTED BY LINDSAY & CO., LTD., 17 BLACKFRIARS STREET,

#### AND FUBLISHED 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 nominated 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 *Edinburgh Mathematical Notes* as published. Authors of papers who are Members of the Society are entitled to receive 25 reprints of their papers free of charge.

Members can obtain back numbers of the publications—as far as these are in print—at reduced prices on application to the Hon. Secretary. Other intending purchasers of the *Proceedings* should apply to the Publishers, G. BELL & SONS, LTD., Portugal Street, Londen, W.C. 2. All intending purchasers of the *Edinburgh Mathematical Notes* should apply to the Hon. Secretary. Certain volumes of the *Proceedings* are out of print or very scarce, and the Hon. Secretary will therefore be glad to hear from members willing to give or sell their collections to the Society. Such gifts will be earmarked if desired for transmission to wardamaged libraries needing them.

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

#### HON. LIBRARIAN,

EDINBURGH MATHEMATICAL SOCIETY,

16 CHAMBERS STREET, EDINBURGH, 1

All papers for publication and other communications should be sent to the

HON. SECRETARY,

EDINBURGH MATHEMATICAL SOCIETY,

16 CHAMBERS STREET, EDINBURGH, I