## **PROCEEDINGS**

OF THE

### EDINBURGH MATHEMATICAL SOCIETY

VOLUME 16 (Series 2)

DECEMBER 1969

PART 4

WNDES: Some dual series and triple integral equations

RAD and F. HARARY: The enumeration of tree-like polyhexes

LREMAN: Non-linear integral equations for Heun functions

RE: On π-dimensional Stirling numbers

TES: On the greatest prime factor of a polynomial

SHIT LIU: On asymptotic behaviours of trigonometric series with δ-quasi-monot

CRATON: A procedure for summing asymptotic series

RESTLEY: A Choquet-Deny theorem for affine functions on a Choquet simplex

DERTSON: A local mean value theorem for the complex plane

CROY, B. DUMMICAN and J. DUNCAN: On compact normal semigroups

RANNAN: On functions of bounded boundary rotarians. ric series with 8-quasi-monotone coefficients

s I of the PROCEEDINGS consists of forty-four volumes published from 1886 to 1926.
s II consists of fifteen complete volumes to date.
e PROCEEDINGS are published in parts and issued twice yearly. Four parts consimately 200 pages and the Title Pages and Index are published in Part 4 of each volume prepaid subscription per volume is 1208.and in the U.S.A. \$17.00.

rs for Series I and Series II Volumes I to 14 should be addressed to Kraus Reprint Ltd., 208–210 Abbey House, Victoria t, London, S.W.I.

Orders for Series II Volume 15 onwards should be addressed to OLIVER & BOYD LTD., TWEEDDALE COURT, 14 HIGH STREET, EDINBURGH, 1.

### THE OUARTERLY JOURNAL OF

## MATHEMATICS

OXFORD SECOND SERIES Edited by J. T. LEWIS, E. C. THOMPSON

with the advice of M. F. ATIYAH, B. J. BIRCH, D. A. EDWARDS, G. HIGMAN. I. M. JAMES, G. TEMPLE.

VOLUME 20

No. 80

December 1969

#### CONTENTS

Quarterly Journal of Mathematics (Oxford Second Series) is published in March, June, September and December at 18s. 6d. net for a single number with an annual subscription (for four numbers) of 65s, post free. Orders may be placed with any bookseller or sent direct to the Publisher.

> OXFORD UNIVERSITY PRESS ELY HOUSE, 37 DOVER STREET, LONDON, W. 1.



## UNIVERSITY MATHEMATICAL TEXTS

Editors ALAN JEFFREY and IAIN ADAMSON

The aim of this series is to provide compact and inexpensive textbooks for undergraduates on standard topics of mathematics. A selection from the series is listed below. You are invited to write to us for a copy of our descriptive leaflet which gives full details of the ground covered in each of the thirty-eight titles now available.

		Paperback	Hardback
I. Determinants and Matrices	A.C. AITKEN	10s 6d	13s 6d
4. Integration of Ordinary			
Differential Equations	E. L. INCE	12s 0d	_
7. Functions of a Complex			
Variable	E. G. PHILLIPS	10s 6d	13s 6d
11. Electricity	C. A. COULSON	13s 6d	17s 6d
13. Introduction to the Theory			
of Finite Groups	W. LEDERMANN	10s 6d	13s 6d
14. Classical Mechanics	D. E. RUTHERFORD	13s 6d	17s 6d
29. Numerical Methods: I	B. NOBLE	10s 6d	13s 6d
30. Numerical Methods: II	B. NOBLE	13s 6d	17s 6d
31. Elementary Abstract	E. M. PATTERSON and		
Algebra	D. E. RUTHERFORD	13s 6d	17s 6d
33. Magnetohydrodynamics	A. JEFFREY	13s 6d	17s 6d
34. An Introduction to			
Modern Mathematics	A. MONJALLON	13s 6d	17s 6d
35. Quantum Mechanics	R. A. NEWING and		
	J. CUNNINGHAM	17s 6d	27s 6d
36. Probability	J. R. GRAY	17s 6d	27s 6d
37. Series Expansions for			
Mathematical Physicists	H. MESCHOWSKI	21s 0d	27s 6d
38. Calculus of Variations	J. C. CLEGG	21s 0d	27s 0d

# **OLIVER & BOYD**

Tweeddale Court, 14 High Street, Edinburgh EHI IYL