PROCEEDINGS

OF THE

EDINBURGH MATHEMATICAL SOCIETY

CONTENTS

P. A. FIRBY: On compactification of mappings	page 105
w. w. Muir: Inequalities concerning the inverses of positive definite matrices	page 109
V. J. BASTON: Some cyclic inequalities	page 115
D. M. CONNOLLY AND J. H. WILLIAMSON: An application of a theorem of Singer	page 119
VICTOR BRYANT: Topological convexity spaces	page 125
A. M. W. GLASS: I-simple lattice-ordered groups	page 133
J. AHSAN: On rings with quasi-injective cyclic modules	page 139
s. J. LEESE: Measurable selections in normed spaces	page 147
N. J. KALTON: Basic sequences in F-spaces and their applications	page 151
K. J. BROWN: A completeness theorem for a nonlinear problem	page 169
BRUCE A. BARNES: Representations of normed algebras with minimal left ideals	page 173
R. BEAZER: Functions and equations in classes of distributive lattices with pseudocomplementation	page 191
ROBERT E. ATALLA: On the mean convergence of Markov operators	page 205
BOOK REVIEWS	page 211

SCOTTISH ACADEMIC PRESS

THE EDINBURGH MATHEMATICAL SOCIETY

The Edinburgh Mathematical Society was instituted in 1883 for "the promotion and

extension of Mathematical Science, Pure and Applied "

Nominations for Ordinary Membership are received at any one Ordinary Meeting and voted upon at the next. Members receive notices of all meetings and a copy of each issue of the Proceedings on publication; additional copies, and in-print back numbers from vol. 15 onwards, can be bought at a reduced price. Further information about membership can be obtained from the Secretary.

PROCEEDINGS OF THE EDINBURGH MATHEMATICAL SOCIETY

Editors: F. F. Bonsall, W. D. Collins,

R. M. DICKER, A. D. SANDS, I. N. SNEDDON.

The Society's Proceedings, containing papers embodying the results of research that is original in matter or manner, are published in parts and issued twice yearly. Four parts complete a volume, the Title Pages and Index being published in Part 4. Series I comprised forty-four volumes published from 1886 to 1926. Series II commenced in 1927.

Papers to be considered for publication should be sent to the Secretary. Manuscripts, preferably typewritten on quarto size paper, must be top copies with generous margins and double energing. The style and expression to contract practice in the Pro-

double spacing. The style and arrangement should conform to current practice in the Prodouble spacing. The style and arrangement should conform to current practice in the Proceedings. References, including titles of papers, should be given in the form adopted by Mathematical Reviews, footnotes being avoided if possible. The figures must be suitable for line block reproduction, lettered in pencil, numbered and separated from the text; their intended location should be clearly indicated. Manuscripts which are not suitable for submission to the printer will not be accepted. Authors are advised to retain a copy of any material submitted, as the Society cannot accept responsibility for any loss.

A proof is supplied once in galley form. Authors are particularly requested to correct and return the proof promptly. Excessive corrections may be charged to authors. Twenty-five free offprints, and additional copies at cost, will be supplied if ordered on a form returned with

the proof.

The prepaid annual subscription (2 parts) is £5.00 (U.S.A. and Canada \$15.00) post free. Single parts £2.50 (U.S.A. and Canada \$7.50) post free. Enquiries regarding purchase of back numbers should be addressed to

Kraus Reprint Ltd. 9491, Nendeln Liechtenstein

for volumes of Series I and up to Volume 14 of Series II, and to the publishers

Scottish Academic Press Ltd. 25 Perth Street Edinburgh EH3 5DW

for subsequent issues.

The Society's address is

The Edinburgh Mathematical Society 20 Chambers Street Edinburgh EHI 1HZ

Communications concerning the Library should be addressed to the Librarian.

All other correspondence should be addressed to the Secretary.

COPYRIGHT © 1974 THE EDINBURGH MATHEMATICAL SOCIETY

Printed in Great Britain by T. & A. Constable Ltd., Edinburgh