

PROCEEDINGS

OF THE

EDINBURGH MATHEMATICAL SOCIETY

CONTENTS

T. H. LENAGAN: Krull dimension and invertible ideals in Noetherian rings	<i>page 81</i>
JOHN FOUNTAIN: Perfect semigroups	<i>page 87</i>
JOHN ISBELL: Perfect categories	<i>page 95</i>
N. J. YOUNG: Periodicity of functionals and representations of normed algebras on reflexive spaces	<i>page 99</i>
GRANT A. FRASER: The tensor product of distributive lattices	<i>page 121</i>
M. W. BUNDER: Commutative non-associative number theory	<i>page 133</i>
CHORNG-SHI HOUH: A note on pseudo-umbilical surfaces	<i>page 137</i>
RODNEY Y. SHARP: Secondary representations for injective modules over commutative Noetherian rings	<i>page 143</i>
GUYAN ROBERTSON: On the density of the invertible group in C^* -algebras	<i>page 153</i>
L. A. RUBEL AND A. L. SHIELDS: Badly approximable functions and interpolation by Blaschke products	<i>page 159</i>
H. G. DALES: Exponentiation in Banach star algebras	<i>page 163</i>
T. A. GILLESPIE: Commuting well-bounded operators on Hilbert spaces	<i>page 167</i>
H. R. DOWSON: On power-bounded prespectral operators	<i>page 173</i>

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, R. M. DICKER,

A. G. MACKIE, 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 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 £10.00 post free. Single parts £5.00 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.
33 Montgomery Street
Edinburgh EH7 5JX

for subsequent issues.

The Society's address is

The Edinburgh Mathematical Society
20 Chambers Street
Edinburgh EH1 1HZ

Communications concerning the Library should be addressed to the Librarian.

All other correspondence should be addressed to the Secretary.

COPYRIGHT © 1976 THE EDINBURGH MATHEMATICAL SOCIETY

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