

Glasgow Mathematical Journal

Formerly Proceedings of the Glasgow Mathematical Association

CONTENTS

James McCool , The order problem and the power problem for free product sixth-groups	1
Ian Anderson , Primitive sequences whose elements have no large prime factors	10
E. H. Feller and R. L. Gantos , Completely injective semigroups with central idempotents	16
H. E. Scheiblich , Certain congruence and quotient lattices related to completely 0-simple and primitive regular semigroups	21
M. H. Peel , On the second natural representation of the symmetric groups	25
Freda E. Alexander , On complemented and annihilator algebras	38
M. F. Janowitz , Decreasing Baer semigroups	46
D. Ž. Djoković , Simple proof of a theorem on permanents	52
J. H. Bevis , Matrices over orthomodular lattices	55
J. H. Bevis and C. K. Martin , Residuation theory and matrix multiplication on orthomodular lattices	60
Hazel Perfect , Remark on a criterion for common transversals	66
F. F. Bonsall , The numerical range of an element of a normed algebra	68
J. Duncan , The evaluation functionals associated with an algebra of bounded operators	73
J. D. Maitland Wright , Martingale convergence theorems for sequences of Stone algebras	77

OLIVER AND BOYD

TWEEDDALE COURT

14 HIGH STREET, EDINBURGH, 1

GLASGOW MATHEMATICAL JOURNAL

The *Glasgow Mathematical Journal* is a continuation of the *Proceedings of the Glasgow Mathematical Association*, founded in 1952 by the late Professor T. M. MacRobert. It is published with the support of the University Court of the University of Glasgow. The *Glasgow Mathematical Journal* is published in Parts twice yearly, in January and July; two Parts complete a Volume of approximately 160 pages.

The prepaid subscription for each Volume is Fifty Shillings (U.S.A. \$7.00), post free. Single parts may be supplied at a cost of Twenty Five Shillings each (U.S.A. \$3.50), net.

Copies may be ordered direct from the publishers or from any bookseller.

Information for Contributors

While the *Glasgow Mathematical Journal* is intended primarily for Pure Mathematics, papers on Applied Mathematics will also be accepted. Manuscripts from all parts of the world will be welcomed and given careful consideration.

Manuscripts, preferably typed, should be prepared so as to conform with the practice in current numbers of the *Journal*, especially with regard to line illustrations, references, tables and summaries. The name of the author and the date of the receipt of the manuscript will be printed under the title. Text figures must be suitable for line block reproduction, lettered in pencil, numbered, and separated from the text but allocated clearly to sections of the text.

References should be placed at the end of the paper, arranged and numbered in alphabetical order. In the text, reference numbers should be enclosed in square brackets and underlined, to distinguish them from formula numbers, which should be quoted in round brackets. The following particulars should be given, in the order indicated:

for references to books—*author, title, edition, place of publication, year of publication, page reference*;

for references to articles in periodicals—*author, title of article, short title of periodical, series no. (if any), volume no., year, pagination*.

A proof is supplied once in galley form, together with an Order Form for offprints. Offprints are supplied free to the number of twenty-five; additional copies, if ordered prior to publication, will be supplied, at cost, at the request of the contributor. Excessive corrections may be charged to the author.

Manuscripts should be sent to:
THE EDITORS
GLASGOW MATHEMATICAL JOURNAL
DEPARTMENT OF MATHEMATICS
UNIVERSITY OF GLASGOW, GLASGOW, W. 2