# Glasgow Mathematical Journal

## CONTENTS

John Roderick Smart, On the values of the Epstein zeta function	1
R. Beazer, Topologies on Boolean algebras defined by ideals and dual ideals	13
G. B. Preston, Any group is a maximal subgroup of the semigroup of binary	
relations on some set	21
L. J. Mordell, On Salié's sum	25
Mario Petrich, Regular semigroups which are subdirect products of a band and a semilattice of groups	27
Bruce C. Berndt, An elementary proof of some character sum identities of	
Apostol	50
<b>R. C. Vaughan</b> , A remark on the divisor function $d(n)$	54
Janet E. Ault, The translational hull of an inverse semigroup	56
J. Tweed, The solution of certain triple integral equations involving inverse Mellin transforms	65
J. S. Lowndes, Simultaneous dual integral equations	73
N. Oler, Spaces of closed subgroups of a connected Lie group	77
P. E. Kopp, A ratio limit theorem for contraction projections and applications	80
P. J. C. Lamont, Factorization and arithmetic functions for orders in composi-	
tion algebras	86
Marc De Wilde, Locally convex spaces with fundamental sequences	96

# SCOTTISH ACADEMIC PRESS LIMITED 25 PERTH STREET EDINBURGH EH3 5DW

### **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 200 pages.

The prepaid subscription for each Volume is  $\pounds 3.00$  in U.K., \$8.50 in U.S.A., post free. Single parts may be supplied at a cost of  $\pounds 1.55$  in U.K., \$4.50 in U.S.A., 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 G12 8QQ