

Proceedings of the
CAMBRIDGE PHILOSOPHICAL
SOCIETY

(MATHEMATICAL AND PHYSICAL SCIENCES)

VOLUME 75

PART 2



CAMBRIDGE UNIVERSITY PRESS

BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, NW1 2DB
AMERICAN BRANCH: 32 EAST 57TH STREET, NEW YORK, N.Y. 10022

Price £4.40 Net (U.S.A. and Canada US \$15.50)

*1974 subscription price £11 per volume (£22 per annum) net post free
(US \$36.00 per volume (US \$72.00 per annum) in U.S.A. and Canada)*

March 1974

CAMBRIDGE PHILOSOPHICAL SOCIETY

FOUNDED 1819; ROYAL CHARTER 1832

Session 1973-1974

President: R. C. EVANS

Vice-Presidents: GEORGE SALT, J. N. AGAR, M. ABERCROMBIE

Treasurer: S. G. FLEET

Secretaries: (Physical) J. E. FIELD

(Biological) M. A. MESSAGE

(Mathematical) A. R. D. MATHIAS

The publications of the Society consist of the *Proceedings* and of the *Biological Reviews*. The publication of *Transactions* was suspended at the end of Volume XXIII.

Orders may be sent to any bookseller or subscription agent or direct to Cambridge University Press, P.O. Box 92, London NW1 2DB, or in the U.S.A. and Canada, Cambridge University Press, American Branch, 32 East 57th Street, New York, N.Y. 10022.

EARLY PARTS of *Proceedings* and *Biological Reviews* may be obtained from the CAMBRIDGE PHILOSOPHICAL SOCIETY, BENE'T STREET, CAMBRIDGE, ENGLAND. All parts of the *Proceedings* (including the cumulative indices to Vols. 1 to 50, 51 to 60 and 61 to 70) and of *Biological Reviews* are available, and prices of sets or single parts will be quoted on application.

Some parts of *Transactions* are available from the above address. The complete set on microfilm may be obtained from Microfilm Division, E.P. Group of Companies, Bradford Road, East Ardsley, Wakefield, Yorkshire, price £77.

Fellows and Associates of the Society are particularly requested to inform the Secretaries of any change of postal address and to send their subscriptions to the Treasurer, at the Society's office.

All correspondence regarding library exchanges should be addressed to the Librarian at the Society's office.

PROCEEDINGS of the CAMBRIDGE PHILOSOPHICAL SOCIETY

edited by

A. R. D. MATHIAS

in consultation with

L. E. FRAENKEL

D. J. H. GARLING

J. A. HUDSON

G. K. EAGLESON

J. E. ROSEBLADE

C. R. F. MAUNDER

B. BOLLOBÁS

1. *Proceedings of the Cambridge Philosophical Society* is published once every two months. Three issues form a volume and two volumes are published each year. The 1974 subscription price (which includes postage) of a volume is £11 net (US \$36.00 in the U.S.A. and Canada). Papers in all branches of mathematics (including applications of mathematics in the natural and biological sciences) are within its scope.

2. Contributions for the *Proceedings* should be sent to the Mathematical Secretary at the Society's office (see above). Papers should be communicated directly by the authors.

3. Papers in languages other than English should be accompanied by a brief summary in English.

4. It is extremely helpful if diagrams are drawn in indian ink on white card, faintly blue or green-lined graph paper, or tracing cloth or paper. *Symbols, legends and captions should be given on a transparent overlay.* The Society recognizes that many authors do not have the facilities for producing drawings of a sufficiently high standard to be reproduced directly and it is therefore willing to have such diagrams re-drawn, provided they are reasonably clear.

5. References should be listed and numbered at the end of each paper and referred to by number in the text. Titles of journals should be abbreviated as in *Mathematical Reviews*.

6. **Authors are particularly requested to prepare their manuscripts in a form suitable for printing, with adequate margins. The Secretary reserves the right to return scarcely legible manuscripts to the author. A pamphlet on the preparation of manuscripts may be obtained on application to the Librarian. If a large number of corrections are required in the proofs, the Council reserves the right to make a charge towards the cost.**

7. Authors may receive on request *100 free offprints* (for each set of authors in the case of a joint paper). Alternatively authors may have 50 free offprints incovers. Further copies may be obtained at reasonable cost. An order form is included with the galley proofs of each paper.

8. Second class postage paid at New York, N.Y.

9. © Cambridge Philosophical Society, 1974.

For permission to reproduce material from *Proceedings of the Cambridge Philosophical Society*, please apply to the London or New York office of Cambridge University Press.

ISI Tear Service, 325 Chestnut Street, Philadelphia, Pennsylvania 19106, U.S.A. is authorized to supply single copies of separate articles for private use only.