# Proceedings of the Edinburgh Mathematical Society

OXFORD UNIVERSITY PRESS

# **PROCEEDINGS**

### OF THE

## EDINBURGH MATHEMATICAL SOCIETY

### EDITORIAL BOARD

C. M. CAMPBELL (Managing Editor)

A. M. ETHERIDGE (Stochastic analysis)
C. MACLACHLAN (Topology)
S. C. POWER (Analysis)

A. A. LACEY (Applied analysis)
L. O'CARROLL (Algebra)
D. M. SLOAN (Numerical Analysis)

I. TWEDDLE (Reviews Editor)

### **CONSULTING EDITORS**

Sir MICHAEL ATIYAH, F.R.S.
University of Cambridge
C. DE BOOR
University of Wisconsin-Madison
O. H. KEGEL
Albert-Ludwigs-Universität, Freiburg
A. J. MACINTYRE
University of Oxford
G. P. SCOTT
University of Michigan

K. R. DAVIDSON
University of Waterloo
K. R. GOODEARL
University of California, Santa Barbara
H. W. LENSTRA
University of California, Berkeley
A. PELCZYNSKI
Polish Academy of Sciences
C. A. STUART
Swiss Federal Institute of Technology, Lausanne

**Frequency** One volume of the *Proceedings of the Edinburgh Mathematical Society* is published annually, consisting of three issues in February, June and October.

Subscriptions The subscription rates for 1997 are: £95 in the UK and Europe and US\$190 in the rest of the world. These prices include air-speeded delivery to Australia, Canada, India, Japan, New Zealand, and the USA. Delivery elsewhere is by surface post, although airmail rates can be quoted on request. Payment is required with all orders and may be made by the following methods:

Cheque (made payable to Oxford University Press)

National Girobank (account 500 1056)

Credit cards (Access, Visa, American Express, Diners Club)

UNESCO Coupons.

Bankers: Barclays Bank plc, PO Box 333, Oxford, UK Code 20-65-18, Account 00715654.

Requests for sample copies, subscription enquiries, orders and changes of address should be sent to the Journals Subscription Department, Oxford University Press, Walton Street, Oxford OX2 6DP, UK.

**Back numbers** Copies of the current volume and the two immediately preceding volumes can be obtained from Oxford University Press at the above address. Earlier volumes in Series II (from Volume 15 onwards) can be obtained from William Dawson and Sons, Cannon House, Park Farm Road, Folkestone, Kent, CT19 5EE, UK.

Series I comprised forty-four volumes published from 1884 to 1926. Enquiries regarding back numbers of Series I and Volumes 1-14 of Series II should be addressed to Kraus Reprint Ltd., Route 100, Millwood, NY 10546, USA.

# COPYRIGHT © 1997 THE EDINBURGH MATHEMATICAL SOCIETY

All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without either the prior written permission of the Publishers, or a licence permitting restricted copying issued in the UK by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London, W1P 9HE, or in the USA by the Copyright Clearance Center, 27 Congress Street, Salem, Mass 01970.

Published by Oxford University press, Walton Street, Oxford, OX2 6DP, UK.

Web address: http://www.oup.co.uk/edmath/

Printed in Great Britain by Bell and Bain Ltd., Glasgow