

PEAMDU 101(187–363) 1985

Volume 101: Parts 3/4

# THE ROYAL SOCIETY OF EDINBURGH



## PROCEEDINGS

Section A (Mathematics)

ISSN 0308-2105

PUBLISHED BY THE ROYAL SOCIETY OF EDINBURGH  
22 GEORGE STREET, EDINBURGH, EH2 2PQ

1985

# EDITORIAL BOARD

## Executive Editors

T. S. BLYTH  
University of St Andrews

R. J. KNOPS  
Heriot-Watt University

A. M. SINCLAIR  
University of Edinburgh

J. M. BALL  
Heriot-Watt University  
F. F. BONSALL  
University of Edinburgh  
J. W. S. CASSELS  
University of Cambridge  
M. S. P. EASTHAM  
King's College, London  
P. HEYWOOD  
University of Edinburgh

J. B. MCLEOD  
University of Oxford  
W. D. MUNN  
University of Glasgow  
E. M. PATTERSON  
University of Aberdeen  
D. A. R. WALLACE  
University of Stirling  
J. WEBB  
University of Glasgow

A. D. SANDS  
University of Dundee

R. M. S. SMELLIE  
*General Secretary*  
Royal Society of Edinburgh

W. H. RUTHERFORD  
*Executive Secretary*  
Royal Society of Edinburgh

## Consulting Editors

H. AMANN  
Universität Zürich  
H. BREZIS  
Université de Paris VI  
Y. S. CHIN  
Academia Sinica, Beijing, China  
R. G. DOUGLAS  
State University of New York at Stony Brook, USA  
D. E. EDMUND  
University of Sussex  
L. C. EVANS  
University of Maryland, College Park, USA  
L. E. FRAENKEL  
University of Sussex  
J. K. HALE  
Brown University, Providence, RI, USA  
P. R. HALMOS  
University of Indiana, Bloomington, USA  
TOSIO KATO  
University of California, Berkeley, USA  
ROBERT V. KOHN  
New York University  
J. KURZWEIL  
Matematický ústav ČSAV, Praha,  
Czechoslovakia

D. LIVINGSTONE  
University of Birmingham  
J. E. MARSDEN  
University of California, Berkeley, USA  
J. MAWHIN  
Université Catholique de Louvain  
TAKAAKI NISHIDA  
Kyoto University, Japan  
A. PAZY  
The Hebrew University of Jerusalem  
G. B. PRESTON  
Monash University, Clayton, Australia  
DAVID L. RUSSELL  
University of Wisconsin, Madison, USA  
C. A. STUART  
École Polytechnique  
Fédérale de Lausanne  
L. TARTAR  
Centre d'Etudes de Limeil, France  
P. WALTMAN  
Emory University, Atlanta, USA  
W. WENDLAND  
Technische Hochschule Darmstadt  
A. ZETTL  
Northern Illinois University, De Kalb, USA