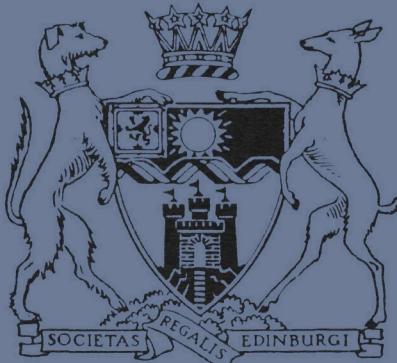


PEAMDU 87(1–165) 1980

Volume 87: Parts 1/2

# 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

1980

# EDITORIAL BOARD

## Executive Editors

J. DUNCAN  
University of Stirling

W. N. EVERITT  
University of Dundee

A. JEFFREY  
University of Newcastle upon Tyne

T. S. BLYTH  
University of St Andrews  
W. D. COLLINS  
University of Sheffield  
P. HEYWOOD  
University of Edinburgh  
D. S. JONES  
University of Dundee  
R. J. KNOPS  
Heriot-Watt University

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

J. B. MCLEOD  
University of Oxford  
W. D. MUNN  
University of Glasgow  
E. M. PATTERSON  
University of Aberdeen  
R. A. RANKIN  
University of Glasgow  
G. F. ROACH  
University of Strathclyde

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

## Consulting Editors

H. AMANN  
Universität Zürich  
F. M. ARSCOTT  
University of Manitoba  
F. V. ATKINSON  
University of Toronto  
H. BREZIS  
Université de Paris VI  
J. W. S. CASSELS  
University of Cambridge  
R. CONTI  
Istituto Matematico, Firenze, Italy  
W. A. COPPEL  
Australian National University  
M. S. P. EASTHAM  
Chelsea College, London  
D. E. EDMUND  
University of Sussex  
AVNER FRIEDMAN  
Northwestern University, Evanston,  
Illinois, USA  
J. K. HALE  
Brown University, Providence, RI, USA  
P. R. HALMOS  
University of Indiana, Bloomington,  
USA  
E. M. DE JAGER  
Universiteit van Amsterdam

TOSIO KATO  
University of California, Berkeley, USA  
J. KURZWEIL  
Matematický ústav ČSAV, Praha,  
Czechoslovakia  
J. MAWHIN  
Université Catholique de Louvain  
A. PAZY  
The Hebrew University of Jerusalem  
ÅKE PLEIJEL  
University of Uppsala, Sweden  
G. B. PRESTON  
Monash University, Clayton, Australia  
G.-C. ROTA  
Massachusetts Institute of Technology,  
USA  
F. STUMMEL  
Johann Wolfgang-Goethe University,  
Frankfurt am Main, Germany  
F. URSELL  
University of Manchester  
P. WALTMAN  
University of Iowa  
W. WENDLAND  
Technische Hochschule Darmstadt  
J. WERMER  
Brown University, Providence, RI, USA

A. ZETTL  
Northern Illinois University,