

PEAMDU 86(1-173) 1980

Volume 86: 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

J. B. McLEOD
University of Oxford

W. D. COLLINS
University of Sheffield

W. D. MUNN
University of Glasgow

P. HEYWOOD
University of Edinburgh

E. M. PATTERSON
University of Aberdeen

D. S. JONES
University of Dundee

R. A. RANKIN
University of Glasgow

R. J. KNOPS
Heriot-Watt University

G. F. ROACH
University of Strathclyde

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

TOSIO KATO
University of California, Berkeley, USA

F. M. ARSCOTT
University of Manitoba

J. KURZWEIL
Matematický ústav ČSAV, Praha,
Czechoslovakia

F. V. ATKINSON
University of Toronto

J. MAWHIN
Université Catholique de Louvain

H. BREZIS
Université de Paris VI

A. PAZY
The Hebrew University of Jerusalem

J. W. S. CASSELS
University of Cambridge

ÅKE PLEJEL
University of Uppsala, Sweden

R. CONTI
Istituto Matematico, Firenze, Italy

G. B. PRESTON
Monash University, Clayton, Australia

W. A. COPPEL
Australian National University

G.-C. ROTA
Massachusetts Institute of Technology,
USA

M. S. P. EASTHAM
Chelsea College, London

F. STUMMEL
Johann Wolfgang-Goethe University,
Frankfurt am Main, Germany

D. E. EDMUNDS
University of Sussex

F. URSELL
University of Manchester

AVNER FRIEDMAN
Northwestern University, Evanston,
Illinois, USA

P. WALTMAN
University of Iowa

J. K. HALE
Brown University, Providence, RI, USA

W. WENDLAND
Technische Hochschule Darmstadt

P. R. HALMOS
University of Indiana, Bloomington,
USA

J. WERMER
Brown University, Providence, RI, USA

E. M. DE JAGER
Universiteit van Amsterdam

A. ZETTL
Northern Illinois University,
De Kalb, Illinois, USA