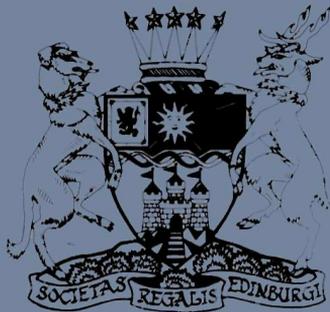


PEAMDU 120 (1–190) 1992

Volume 120: 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
1992

EDITORIAL BOARD

Executive Editors

J. M. BALL

Heriot-Watt University

A. M. DAVIE
University of Edinburgh

T. J. LYONS
University of Edinburgh

M. F. ATIYAH
University of Cambridge
A. D. D. CRAIK
University of St Andrews
R. FLETCHER
University of Dundee
T. A. GILLESPIE
University of Edinburgh
O. PENROSE
Heriot-Watt University

J. R. RINGROSE
University of Newcastle
upon Tyne
B. STRAUGHAN
University of Glasgow

R. J. KNOPS
Curator
Heriot-Watt University

Consulting Editors

H. BREZIS
Université de Paris VI
C. M. DAFERMOS
Brown University,
Providence, RI, USA
S. K. DONALDSON
University of Oxford
R. G. DOUGLAS
State University of New York at
Stony Brook, USA
L. E. FRAENKEL
University of Bath
M. GIAQUINTA
Università degli
Studi di Firenze
J. K. HALE
Georgia Institute of Technology,
USA
K. KIRCHGASSNER
Universität Stuttgart
ROBERT V. KOHN
New York University
P. L. LIONS
Université de Paris IX
O. A. OLEINIK
Moscow State University,
USSR

A. YU. OLSHANSKII
Moscow State University,
USSR
D. S. PASSMAN
University of Wisconsin-
Madison
W. G. STRANG
Massachusetts Institute of
Technology, Cambridge, USA
C. A. STUART
École Polytechnique Fédérale
de Lausanne
L. TARTAR
Carnegie-Mellon University,
Pittsburgh, USA
J. TOLAND
University of Bath
N. S. TRUDINGER
Australian National University,
Canberra, Australia
G. Q. ZHANG
Peking University, Beijing
W. A. ZHENG
Northwestern University, USA

Publications Manager, Royal Society of Edinburgh: T. G. Dart

The Royal Society of Edinburgh Proceedings Section A Mathematics is published every two months by the Royal Society of Edinburgh. Subscription price is £175.00 for six issues (3 volumes). Second Class postage paid at Rahway N.J.. Postmaster send address corrections to *The Royal Society of Edinburgh Proceedings Section A Mathematics*, c/o Mercury Airfreight International Ltd Inc., 2323 Randolph Avenue, Avenel, New Jersey 07001, U.S.A.

(Issued 12 February 1992)