NOTES FOR AUTHORS

Proceedings of the Royal Society of Edinburgh: Section A is a general journal, and papers in all areas of mathematics will be considered. Papers to be considered for publication should be sent to the Publications Manager, The Royal Society of Edinburgh, 22 George Street, Edinburgh EH2 2PQ, Scotland.

A paper by more than one author must be submitted with a statement, signed by each author, to the effect that the paper in its entirety is approved by the joint authors and naming the author who will be responsible for correspondence with the Society.

Authors will receive fifty (50) offprints free of charge, this number to be shared between joint authors. Additional offprints may be obtained, in units of fifty, at a fixed scale of prices given on a form which will be attached to the proof.

In view of the high cost of publication, authors must prepare their papers as concisely as possible. Manuscripts should be submitted in triplicate and preferably should be typewritten on one side of A4 paper, double spaced with adequate margins. Authors are advised to retain a copy of their papers as the Society cannot accept responsibility for any loss.

Every paper must be accompanied by a Synopsis, in general not exceeding two hundred words, which will be printed in small type at the beginning of the paper.

References within the text should be indicated by bold numbers in square brackets, e.g. [2] or [3, p. 167]. For style of references at end of text, see recent issues of *Proceedings A*.

Authors should ensure that punctuation carries through the mathematics in the proper manner. The use of hyphens should be consistent. In the text avoid such abbreviations as: iff, w.r.t., a.e., \forall , \exists , and thm.

Footnotes should be avoided. Headings should not be underlined. Every effort should be made to avoid complicated subscripts, superscripts, ranges of summation and integration. Horizontal fraction signs should normally be avoided: use either solidus signs / or negative exponents. Replace $e^{(...)}$ by $\exp[\ldots]$ if the expression in parenthesis is complicated. Simple formulae should *not* be displayed unless they require a formula number. Use the prime ' or d/dx, but preferably not a dot, to denote ordinary differentiation. If possible use subscripts to denote partial differentiation of $\partial/\partial x$ etc. Bars reaching over several letters should be avoided: use $\sqrt{()}$ or the exponent 1/2 for the square root. Sub-subscripts and super-superscripts should be avoided if possible: bars and other devices over indices cannot be supplied.

Note that confusion very often arises between 1 (one) and l (ell): 0 (zero) and O (Capital oh): \circ (composition) and o (lower case oh): x and \times : U and \cup : c and \subseteq : \in (belongs to) and ϵ (epsilon): \emptyset (empty set) and ϕ (phi): $_1$ and comma ,: prime ' and ¹: K and κ : p and ρ : w and ω : Σ (summation) and Σ (capital sigma): \prod (product) and Π (capital pi): v (lower case vee) and v (Greek *nu*): a (lower case a) and α (Greek alpha): y (lower case y) and γ (Greek gamma). Please provide pencilled indicators in the margin where necessary. Where capitals and lower case of the same shape have to be printed, please indicate accordingly. Show italics by single underlining (except in the formulae which are set up normally in italics), bold face/Clarendon by wavy underlining and Greek by red underlining.

The statement of theorems, lemmas, et cetera, will be printed in italics and should be underlined. In definitions key words only should be in italics.

Equations should be indicated by numbers in parentheses in the right-hand margin.

Proofs of papers will be sent to the author. The cost of *authors' corrections in excess* of five per cent of the printers' charge for the setting of a particular paper will be charged to the author.

Copyright

© 1991 The Royal Society of Edinburgh and the authors of individual papers.

It is the policy of the Royal Society of Edinburgh not to charge any royalty for the production of a single copy of any one article made for private study or research. Specific permission will not be required for photocopying multiple copies of copyright material, to be used for *bona fide* educational purposes, provided this is done by a member of the staff of the university, school or other comparable institution, for distribution without profit to student members of that institution and provided the copies are made from the original journal. Requests for the copying or reprinting of any article for any other purpose should be sent to the Royal Society of Edinburgh, 22/24 George Street, Edinburgh $\frac{PH2}{29C0}$ 030821050028821 Published online by Cambridge University Press

PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH

(Section A)

Volume 118	1991 Pa	rts 1/2
	CONTENTS	
A. V. KELAREV		
On semigroup algebr	ras of cancellative commutative semigroups	1
M. VAN DEN BERG	aomienhore	5
VICTOR A GALANTIONOV	and SERCEY A POSASILKOV	5
Any large solution of	and Server A. Tosashkov	s
monotonic in time	a non mear near conduction equation occomes	J 13
K. JETTER, S. D. RIEMENS	SCHNEIDER and N. SIVAKUMAR	
Schoenberg's expone	ential Euler spline curves	21
V. A. PLISS		
The nonwandering se	et of a special system of differential equations	35
F. MERLE and L. A. PELE	ETIER	40
Positive solutions of	emptic equations involving supercritical growth	49
A integro-differential	l equation from population genetics and perturba-	_
tions of differentiable	e semigroups in Fréchet spaces	63
Akira Kono	8 F	
On Harper's mod p l	H-space of rank 2	75
P. CH. TSAMATOS and S. J	K. Ntouyas	
Existence of solutio	ns of boundary value problems for differential	L
equations with devia	iting arguments, via the topological transversality	70
I E PAVAE and I P I	WERR	19
Comparison results in	n second order quasilinear Dirichlet problems	91
WALDEMAR CIEŚLAK	n second order quasimear Diffemet problems	71
On equichordal curve	es	105
ALAN LAMBERT		
Localising sets for sig	gma-algebras and related point transformations	111
M. A. ASTABURUAGA, CL	AUDIO FERNÁNDEZ and VÍCTOR H. CORTÉS	
The direct and invers	se problem in Newtonian scattering	119
ZDZISLAW WOJTKOWIAK	apleted classifying spaces II	133
DALE T SMITH	ipieted classifying spaces II	133
On the spectral anal	vsis of self-adjoint operators generated by second	1
order difference equa	ations	139
Gordon Sinnamon		
The A_p condition and	d a positive, linear operator	153
A. Arenas		
Rational equivalence	e of primitive integral binary quadratic forms	157
P. A. BINDING, P. J. BRO	whe allo Y. A. HUANG liptic boundary value problems	161
L L BRENNER and HORST	r Al ZER	101
Integral inequalities	for concave functions with applications to special	1
functions	TI F	173
ISSN 0308-2105	Proc. Roy. Soc. Edinb., 1	A. 118

Published by the Royal Society of Edinburgh 22 George Street, Edinburgh EH2 2PQ

hups//doi.org/10.1017/50 Printed in Neusthearon Inelandoutochen Veninversities Press (Belfast) Ltd