

**THE JOURNAL
OF
THE AUSTRALIAN MATHEMATICAL
SOCIETY**

(SERIES A)—VOLUME XXVI—PART 4

DECEMBER 1978

D. J. LEWIS and PATRICK MORTON	<i>On normal closures related to elliptic curves</i>	385
J. C. RENAUD	<i>The characters and structure of a class of modular representation algebras of cyclic p-groups</i>	410
MARTHA O. BERTMAN	<i>Bicyclic semirings</i>	419
LE VAN TU	<i>The range of a multimeasure</i>	442
JOHN AUGUST and CHARLES BYRNE	<i>Completion of lattices of semi-continuous functions</i>	453
M. W. EVANS	<i>Extended semi-hereditary rings</i>	465
DAVID HARRIES and HANS LIEBECK	<i>Isomorphisms in switching classes of graphs</i>	475
R. R. HALL	<i>A new definition of the density of an integer sequence</i>	487
A. M. RUSSELL	<i>Necessary and sufficient conditions for the existence of a generalized Stieltjes integral</i>	501
	<i>Index</i>	511

Printed and Published for
THE AUSTRALIAN MATHEMATICAL SOCIETY
by John Wright and Sons Ltd, Bristol, England

THE JOURNAL

The Journal of the Australian Mathematical Society began publication in 1959, and from 1975 has appeared in two series, Series A (Pure Mathematics) and Series B (Applied Mathematics). Information about Series B may be found on the inside back cover.

Series A, Pure Mathematics

Two volumes of four parts each are published annually, at a price of A\$44 per volume in 1979. Authors submitting papers for publication should send two copies of the typescript, each containing an abstract and a subject classification (Amer. Math. Soc. (MOS) 1970), to the Editor or to an appropriate Associate Editor. Authors are asked to follow the instructions in the American Mathematical Society publication *A manual for authors of mathematical papers*, except as indicated on the back cover of this issue.

Editor of the Journal, Series A

J. B. Miller, Department of Mathematics, Monash University, Clayton, Victoria 3168

Associate Editors

Gavin Brown—harmonic analysis,
Department of Mathematics,
University of New South
Wales, P.O. Box 1,
Kensington, N.S.W. 2033

J. H. Coates—number theory,
Department of Mathematics,
RSPS,
Australian National
University, P.O. Box 4,
Canberra, A.C.T. 2600

J. N. Crossley—logic
Department of Mathematics,
Monash University,
Clayton, Victoria 3168

T. E. Hall—semigroups,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168

H. Lausch—groups,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168

R. Lidl—algebra,
Department of Mathematics,
University of Tasmania,
Box 252C, G.P.O., Hobart,
Tasmania 7001

G. R. Morris—differential equations,
Department of Mathematics,
University of New England,
Armidale, N.S.W. 2351

A. P. Robertson—functional analysis,
School of Mathematical
and Physical Sciences,
Murdoch University,
Murdoch, W.A. 6153

J. H. Rubinstein—topology,
Department of Mathematics,
University of Melbourne,
Parkville, Victoria 3052

R. H. Street—categories,
School of Mathematics &
Physics,
Macquarie University,
North Ryde, N.S.W. 2113

E. Strzelecki—analysis,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168

D. E. Taylor—algebra,
Department of Pure
Mathematics,
University of Sydney,
Sydney, N.S.W. 2006

R. Tweedie—probability and statistics,
Division of Mathematics and
Statistics,
CSIRO, P.O. Box 1965,
Canberra City, A.C.T. 2601

J. Virsik—differential geometry,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168

W. Wallis—combinatorics,
Department of Mathematics,
University of Newcastle,
Newcastle, N.S.W. 2308

Assistant Editors

E. V. Dudley,
28 Burdekin Street,
Duffy, A.C.T. 2611

P. J. Stacey,
Department of Mathematics,
La Trobe University,
Bundoora, Victoria 3083

Correspondence concerning the printing of papers after their acceptance for publication should be addressed to P. J. Stacey.