

THE JOURNAL
of
THE AUSTRALIAN MATHEMATICAL
SOCIETY

VOLUME XIX (SERIES A) - PART 3

MAY 1975

EVERETT C. DADE	<i>On normal complements of sections of finite groups</i>	257
S. J. BERNAU	<i>The lateral completion of an arbitrary lattice group</i>	263
J. W. WAMSLEY	<i>On a class of finite groups</i>	290
ERIK ELLENTUCK	<i>Hereditarily universal sets</i>	292
C. M. CAMPBELL and E. F. ROBERTSON	<i>Remarks on a class of 2-generator groups of deficiency zero</i>	297
C. J. ASH	<i>A consequence of the axiom of choice.</i>	306
F. D. WILLIAMS	<i>An example for homotopy commutativity of H-spaces</i>	309
HAROLD WILLIS MILNES and S. K. HILDEBRAND	<i>A technique for finding minimal paths in subspaces of a metric space</i>	312
P. J. COLLYER and R. P. SULLIVAN	<i>Closure operators</i>	321
ROGER D. BLEIER	<i>Free z-groups and vector lattices</i>	337
RODNEY JAMES	<i>2-groups of almost maximal class</i>	343
HENRY J. SCHULTZ	<i>Systems of derivations on topological algebras of power series</i>	358
R. Z. YEH	<i>Natural extensions of probability measure in function space</i>	371
P. K. SMRZ	<i>Gauge invariant interactions of classical fields</i>	376
C. O. WILDE	<i>Characterization of finite amenable transformation semigroups: Corrigendum</i>	384

Published for

THE AUSTRALIAN MATHEMATICAL SOCIETY

by Jerusalem Academic Press — Jerusalem — Israel

THE JOURNAL

Two volumes of four parts are published annually at a price of A\$30 per volume, in 1975. Manuscripts (two copies) for publication should be sent to the editor. Authors are asked to follow the instructions in the American Mathematical Society: *A manual for authors of mathematical papers* except as indicated on the outside cover of this Journal.

Editor of the Journal

J. N. Crossley, Department of Mathematics, Monash University, Clayton 3168, Australia. Correspondence concerning the printing of papers after their acceptance for publication should be addressed to one of the Assistant Editors:

J. R. J. Groves Department of Mathematics,
 University of Melbourne
 Parkville 3052, Australia

 or

D. K. Ross Department of Mathematics,
 La Trobe University,
 Bundoora 3083, Australia.

THE AUSTRALIAN MATHEMATICAL SOCIETY

President: H. S. Green University of Adelaide

Secretary: W. Pye Melbourne State College, 757 Swanston Street,
 Carlton, Australia 3053.

Treasurer: V. G. Hart Department of Mathematics, University of
 Queensland, St. Lucia, Australia 4067.

Business Manager: H. M. Finucan Department of Mathematics, University of
 Queensland, St. Lucia, Australia 4067.

Membership subscriptions: Institutions: A\$100
 Other members: A\$12 (which may be reduced to A\$6 for under-
 graduates and junior graduates).

Reciprocity agreements: Such agreements have been made with a number of other mathematical societies. Under the agreements members of the other societies who are not normally resident in Australia may join the Australian Mathematical Society at half the current rates.

Membership and correspondence: Applications for membership, notice of change of address or title or position, and other correspondence should be sent to the Secretary. Subscriptions and correspondence related to accounts should be sent to the Treasurer. Correspondence about the distribution of the Society's GAZETTE, JOURNAL and BULLETIN, and orders for back numbers, should be sent to the Business Manager.

Members of the Society receive copies of the GAZETTE free, and may subscribe to either of the Society's research publications, the JOURNAL or the BULLETIN at the price of A\$8 per year.
