

THE JOURNAL
of
THE AUSTRALIAN MATHEMATICAL
SOCIETY

VOLUME V - PART 4

NOVEMBER 1965

<i>Pascal's theorem in n-space</i>	SAHIB RAM MANDAN	401
<i>Altitudes of a general n-simplex</i>	SAHIB RAM MANDAN	409
<i>Irreducible continua and generalization of hereditarily unicoherent continua by means of membranes</i>	R. F. DICKMAN, L. R. RUBIN and P. M. SWINGLE	416
<i>Gravity effects in the water entry problem . .</i>	A. G. MACKIE	427
<i>A queueing system with moving average input process and batch arrivals</i>	C. PEARCE	434
<i>On the strength of packed spheres</i>	A. K. PARKIN	443
<i>Three proofs of Minkowski's second inequality in the geometry of numbers.</i>	R. P. BAMBHAH, ALAN WOODS and HANS ZASSENHAUS	453
<i>On symmetry in periodic solutions of Hamil- tonian systems</i>	ARTHUR R. JONES	463
<i>A moment problem</i>	LAJOS TAKÁCS	487
<i>A note on pre-interior operators</i>	TENG-SUN LIU	491
<i>Invariant measures on double coset spaces . . .</i>	TENG-SUN LIU	495
<i>A bound for the class of certain nilpotent groups</i>	CHANDER KANTA GUPTA	506
<i>Corrigendum</i>	A. M. WALKER	512

Published for
THE AUSTRALIAN MATHEMATICAL SOCIETY
by P. Noordhoff NV - Groningen - The Netherlands

OFFICERS OF THE SOCIETY

<i>President:</i>	B. H. NEUMANN
<i>Vice-Presidents:</i>	J. R. M. RADOK, G. E. WALL
<i>Treasurer:</i>	C. S. DAVIS
<i>Secretary:</i>	C. J. F. UPTON
<i>Editor:</i>	G. B. PRESTON
<i>Assistant Editor:</i>	J. B. MILLER
<i>Other Members of the Council:</i>	H. C. LEVEY, E. J. WILLIAMS, D. ELLIOTT, G. B. PRESTON, A. F. PILLOW, J. B. DOUGLAS

Manuscripts for publication in the *Journal* should be sent to the Editor:

Professor G. B. PRESTON,
Journal of the Australian Mathematical Society,
Department of Mathematics,
Monash University, Clayton, Victoria.

Correspondence concerning papers after their acceptance for publication should be addressed to the Assistant Editor:

Professor J. B. MILLER,
Journal of the Australian Mathematical Society,
Department of Mathematics,
Monash University, Clayton, Victoria.

All subscriptions and correspondence connected with accounts should be addressed to the Treasurer:

Professor C. S. DAVIS,
The Australian Mathematical Society,
Department of Mathematics,
University of Queensland, St. Lucia, S. W. 6, Brisbane, Queensland.

All other correspondence (such as orders for the *Journal*, and correspondence concerning exchanges), should be addressed to the Business Manager:

Dr. E. T. STELLER,
The Australian Mathematical Society,
Department of Mathematics,
University of Queensland, St. Lucia, S. W. 6, Brisbane, Queensland.

Each volume of the *Journal* consists of four parts. The price per volume is \$ 12.00 Australian.

Intending authors are asked to read the section 'Preparation of Manuscripts' on the inside back cover. Authors of papers printed in the *Journal* receive 50 copies free; additional copies may be ordered at cost. Excessive costs incurred by the Society through corrections or withdrawal of articles may be charged to the authors concerned.