

## INFORMATION FOR AUTHORS

The Bulletin of the Australian Mathematical Society aims at quick publication of original research in all branches of mathematics. The Editors receive more than three times as much material as can be published in the BULLETIN; many meritorious papers can, therefore, not be accepted. Authors are asked to avoid, as far as possible the use of mathematical symbols in the title. Manuscripts are accepted for review with the understanding that the same work is not concurrently submitted elsewhere.

To ensure speedy publication, editorial decisions on acceptance or otherwise are taken quickly, normally within a month of receipt of the paper. Papers are accepted only after a careful evaluation by the Editor and an Associate Editor or other expert in the field. As even minor revisions are generally not permitted, authors should read carefully all the details listed below. For a paper to be acceptable for publication, not only should it contain new and interesting results but also

- (i) the exposition should be clear and attractive;
- (ii) the manuscript should be in publishable form, without revision.

Authors should submit three clean, high quality copies to

The Editorial Office, Bulletin of the Australian Mathematical Society,  
Department of Mathematics, The University of Queensland,  
Queensland 4072, Australia.

Unless requested at the time, material submitted to the BULLETIN will usually not be returned.

### EDITORIAL POLICY

**1. References.** Arrange references alphabetically (by surname of the first author) and cite them numerically in the text. Ensure the accuracy of the references: authors' names should appear as in the work quoted. Include in the list of references only those works cited, and avoid citing works which are "in preparation" or "submitted". Where the work cited is not readily accessible (for example, a preprint) a photocopy of the title page and relevant sections of the copy that you have used should be included with your submission.

### 2. Abstracts.

1. Each paper must include an abstract of not more than 200 words, which should contain a brief but informative summary of the contents of the paper, but no inessential details.
2. The abstract should be self-contained, but may refer to the title.
3. Specific references (by number) to a section, proposition, equation or bibliographical item should be avoided.

**3. Subject Classification.** Authors should include in their papers one or more classification numbers, following the 2000 Mathematics Subject Classification. Details of this scheme can be found in each Annual Index of Mathematical Reviews or on the web at <http://www.ams.org/msc>.

**4. Abstracts of Ph.D. Theses.** The Bulletin endeavours to publish abstracts of all accepted Australasian Ph.D. theses in mathematics. One restriction, however, is that the abstract must be received by the Editor within 6 months of the degree being approved.

**5. Electronic Manuscripts.** The Bulletin is produced using  $\text{\LaTeX}$ . Authors who are able to do so are invited to prepare their manuscripts using  $\text{\TeX}$ . (We accept Plain  $\text{\TeX}$ ,  $\text{\LaTeX}$  or  $\text{\LaTeX}$ .) Hard copy only should be submitted for assessment, but if the paper is accepted the author will be asked to send the text on an IBM PC compatible diskette or via e-mail to [ams@maths.uq.edu.au](mailto:ams@maths.uq.edu.au). [Typed manuscripts are, of course, still acceptable.]

# Bulletin of the Australian Mathematical Society

<b>A rigidity theorem for discrete groups</b>	1
Wen-Haw Chen and Jyh-Yang Wu	
<b>Complete spacelike hypersurfaces in a de Sitter space</b>	9
Shichang Shu	
<b>Some Schwarz type inequalities for sequences of operators in Hilbert spaces</b>	17
Sever S. Dragomir	
<b>On Stallings' unique factorisation groups</b>	27
Donald I. Cartwright and Bernhard Krön	
<b>Some properties of the projective tensor product <math>U \hat{\otimes} X</math> derived from those of <math>U</math> and <math>X</math></b>	37
Patrick N. Dowling	
<b>A class of finite commutative rings constructed from Witt rings</b>	47
Thomas Craven and Monika Vo	
<b>On a type of Matrix ring</b>	65
Maliwan Tunapan, Chitlada Somsup and Sarapee Chairat	
<b>Reverses of the Schwarz inequality generalising a Klamkin–McLenaghan result</b>	69
Sever S. Dragomir	
<b>On generalised Möbius inversion formulas</b>	79
Tian-Xiao He, Leetsch C. Hsu and Peter J.S. Shiue	
<b>Analogues of the Liouville theorem for linear fractional relations in Banach spaces</b>	89
V.A. Khatskevich, M.I. Ostrovskii and V.S. Shulman	
<b>Evaluation of two convolution sums involving the sum of divisors function</b>	107
Mathieu Lemire and Kenneth S. Williams	
<b>Generalised monotone line search algorithm for degenerate nonlinear minimax problems</b>	117
Jin-Bao Jian, Ran Quan and Xue-Lu Zhang	
<b>Remarks on the uniqueness problem for the logistic equation on the entire space</b>	129
Yihong Du and Lishan Liu	
<b>Some extensions of additive properties of general sequences</b>	139
Min Tang	
<b>Cyclic Tarski algebras</b>	147
Marta A. Zander	

## ABSTRACTS OF AUSTRALASIAN Ph.D. THESES

<b>Partial graph design embeddings and related problems</b>	159
Peter Jenkins	