THE ANZIAM JOURNAL

Volume 48   Part 3
JANUARY 2007

Multiserver queueing systems with retrials and losses
Vyacheslav M. Abramov ........................................... 297

Facility location via continuous optimization with discontinuous objective functions
J. Ugon, S. Kouhbor, M. Mammadov, A. Rubinov and A. Kruger ... 315

The multivariate Faà di Bruno formula and multivariate Taylor expansions with explicit integral remainder term
Roy B. Leipnik and Charles E. M. Pearce ......................... 327

On the dynamics of a family of third-order iterative functions
Sergio Amat, Sonia Busquier and Sergio Plaza .................... 343

Efficient spectral-Galerkin algorithms for direct solution of the integrated forms of second-order equations using ultraspherical polynomials
E. H. Doha and A. H. Bhrawy ........................................ 361

Generalized Hadamard’s inequalities based on general Euler 4-point formulae
M. Klaričić Bakula and J. Pečarić .................................. 387

On a distribution of Leipnik and Pearce
Saralees Nadarajah and Samuel Kotz ................................. 405

A note on three stochastic processes with immigration
J. Gani and L. Stals .................................................... 409

A Hilbert inequality and an Euler-Maclaurin summation formula
Mario Krnić and Josip Pečarić ...................................... 419

Reflection coefficients and energy ratios in a micropolar thermoelastic medium without energy dissipation
Baljeet Singh ............................................................ 433

Set by the Australian Mathematical Publishing Association Inc.
Printed by Instant Colour Press, Canberra, Australia.
The Journal of the Australian Mathematical Society began publication in 1959, and from 1975 appeared in two series, Series A (Pure Mathematics and Statistics) and Series B (Applied Mathematics). Series B is now The ANZIAM Journal and is published in volumes comprising four quarterly parts. There is also a fifth (electronic) part designed for rapid publication (http://jamsb.austms.org.au/).

Editor: A. J. ROBERTS, Department of Mathematics & Computing, University of Southern Queensland, Toowoomba, QLD 4350; aroberts@usq.edu.au. All five parts are refereed. All accepted papers have the option of publication in the electronic part. Information about Series A and other publications of the Society may be found on the inside back cover.

It is the editorial policy of The ANZIAM Journal to consider papers in any field of applied mathematics and related mathematical sciences. Novel applications of mathematics in real situations are especially welcomed. All papers should include some indication of applicability, and an introduction that can be understood by non-specialist readers from the whole applied mathematical community.

Manuscripts (four copies) for publication should be sent to the editor or to an appropriate associate editor at the address given on the inside front cover. Such action is a representation by the author that the manuscript has not been copyrighted or published, and that it is not being considered for publication elsewhere. Please do not make initial submissions electronically.

Authors are asked to read the section “Preparation of Manuscripts” on the last page.

Irrespective of the number of authors, 20 free offprints of each copy are provided; additional offprints may be ordered at the expense of the authors.

Excessive costs incurred by the Society through corrections to or withdrawal of articles may be charged to the authors concerned.

The ANZIAM Journal (ISSN 1446-1811) is published quarterly for A$365.20 (Members A$60.50) per annum by the Australian Mathematical Society, Mathematics Department, Australian National University, ACT 0200, Australia. Send address change notices to Dr A. Howe, Journal of the Australian Mathematical Society, Mathematics Department, Australian National University, ACT 0200, Australia.