JOURNAL of the

AUSTRALIAN MATHEMATICAL SOCIETY

Series B — Applied Mathematics

Volume 28 Part 4 APRIL 1987

The finite-section approximation for integral equations on the half-line	
Frank De Hoog and Ian H. Sloan	415
A class of strongly stable operator approximations	
Mario Ahues	435
On the continuity of the Wiener-Hopf factorization operation	
Michael Green and Brian D. O. Anderson	443
Sparse matrix factorizations of transfer matrices	
Murray T. Batchelor	462
On the uniqueness of solitary Rossby waves	
P. E. Kloeden	476
Degenerate bifurcations near a double eigenvalue in the Brusselator	
Gerhard Dangelmayr	486
Index for Volume 28	

The Journal of the Australian Mathematical Society began publication in 1959, and from 1975 appears in two series, Series A (Pure Mathematics and Statistics) and Series B (Applied Mathematics). Series B is published in volumes comprising four quarterly parts. Information about Series A and other publications of the Society may be found on the inside back cover.

It is the editorial policy of Series B to accept 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 is accessible to non-specialist audiences.

Editor of the Journal, Series B

E. O. TUCK, Applied Mathematics Department, University of Adelaide, G.P.O. Box 498, Adelaide, S.A. 5001, Australia.

Associate Editors

R. H. J. GRIMSHAW School of Mathematics University of N.S.W. Kensington N.S.W. 2033

J. M. HILL Department of Mathematics University of Wollongong P.O. Box 1144 Wollongong N.S.W. 2500

C. A. HURST Department of Mathematical Physics University of Adelaide G.P.O. Box 498 Adelaide S.A. 5001

A. MCNABB
Applied Mathematics Division
D.S.I.R.
P.O. Box 1335
Wellington, New Zealand

J. B. MOORE
Department of Systems
Engineering
Institute of Advanced Studies
A.N.U., P.O. Box 4
Canberra, A.C.T. 2600

B. A. MURTAGH
School of Mechanical and Industrial Engineering
University of N.S.W.
Kensington N.S.W. 2033
M. R. OSBORNE

Department of Statistics Institute of Advanced Studies A.N.U., P.O. Box 4 Canberra A.C.T. 2600

C. E. M. PEARCE Applied Mathematics Department University of Adelaide G.P.O. Box 498 Adelaide S.A. 5001

J. RICKARD
Graduate School of Management
University of Melbourne
Parkville Vic. 3052

I. H. SLOAN School of Mathematics University of N.S.W. Kensington N.S.W. 2033

C. J. THOMPSON
Department of Mathematics
University of Melbourne
Parkville Vic. 3052

Assistant Editors

R. B. POTTS, P. M. GILL, Applied Mathematics Department, University of Adelaide, G.P.O. Box 498, Adelaide, S.A. 5001, Australia.

Manuscripts (three copies) for publication should be sent to the editor or to an appropriate associate editor at the address given above. 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.

Authors are asked to read the section "Preparation of Manuscripts" on the outside cover.

Irrespective of the number of authors, 100 free offprints of each paper 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.