ISSN 0334-2700

JOURNAL
of the
AUSTRALIAN MATHEMATICAL SOCIETY

Series B — Applied Mathematics

Volume 37 Part 3
JANUARY 1996

The Laplace transform of $\exp(e^t)$
Michael A. B. Deakin 279

A numerical method for friction problems with multiple contacts
David E. Stewart 288

Locating oscillatory orbits of the parametrically-excited pendulum
M. J. Clifford and S. R. Bishop 309

Matrix spectral problem with multiple-order jumps and poles
Zhuhan Jiang 320

Bragg resonances in a two-layer fluid
W. D. McKee 334

Relative controllability of nonlinear neutral Velterra integrodifferential systems
K. Balachandran and J. P. Dauer 346

On solution sets of nonconvex Darboux problems and applications to optimal control with endpoint constraints
H. D. Tuan 354

On an extension of generalized incomplete Gamma functions with applications
M. Aslam Chaudhry and S. M. Zubair 392

A note on withdrawal through a point sink in fluid of finite depth
Lawrence K. Forbes, Graeme C. Hocking and Graeme A. Chandler 406

Reflection of water waves by a nearly vertical porous wall
A. Chakrabarti and Sahoo 417

Set by TeXAdel, Adelaide, Australia.
Printed by Cushing-Malloy, Inc., Ann Arbor, Michigan, U.S.A.

https://doi.org/10.1017/S0334270000010067 Published online by Cambridge University Press

PREPARATION OF MANUSCRIPTS

Authors of articles submitted for publication in the Journal are asked to ensure that their manuscripts are in a form suitable for sending to the printer. The Editor reserves the right to return poorly presented material to authors for revision.

1. *Submission*. This journal is typeset in LaTeX. It will speed up processing of accepted papers if an electronic version of the manuscript, preferably TeX-based, is available. However, such a file need not be sent with the submitted paper, but will be requested by the Editor if the paper is accepted. The author should submit three copies to the Editor or an appropriate Associate Editor.

2. *Abstract*. An abstract not exceeding 250 words should be included in the manuscript.

3. *Style*. The manuscript should conform to the following rules. In case of any doubt, authors are advised to refer to previous papers in the Journal.

Main headings should be numbered, centred and shown thus:

2. Preliminary results

The titles LEMMA, THEOREM, PROOF, COROLLARY, REMARK, DEFINITION etc. should be left-justified and numbered consecutively with arabic numerals, e.g.

LEMMA 1. The content of the lemma, theorem etc. should follow, as here.

Manuscripts should be typed, on high quality A4 or quarto bond paper, one side only with at least double spacing, and with a margin of at least 4cm all around. If the title is long, supply also a shortened form of the title not exceeding 40 characters, including spaces. If acknowledgements of support and assistance are made, these should be given at the end of the article. Footnotes should be avoided. The address should be shown under the author's name.

4. *Equations*. Equations should be typed wherever possible, and punctuated to conform to their place in the syntax of the sentence. Equation numbers should be shown on the right in round brackets.

5. *References*. The reference list should be in ALPHABETICAL ORDER by name of first author, preceded by a reference number in square brackets. These references should be cited in the text by giving the appropriate number in square brackets. The following layout for books, journal articles, technical reports, theses, articles in books, and conference proceedings respectively, must be followed.

[1] M. Abramowitz and I. A. Stegun (eds.), *Handbook of mathematical functions* (Dover, New York, 1970).

[2] S. N. Biswas and T. S. Santhanam, "Coherent states of para-Bose oscillators", *J. Austral. Math. Soc. Ser. B* **22** (1980) 210–217.

[3] F. H. Busse, "On the mean field problem of thermal convection", *Max-Planck Inst. Phys. Astrophys. Rep. MPI-PAE/Astro* 31 (1970) 1–31.

[4] E. M. Casling, "Slender planing surfaces", Ph. D. Thesis, University of Adelaide, 1978.

[5] R. H. Day, "Adaptive processes and economic theory", in *Adaptive economic models* (eds. R. H. Day and T. Groves), (Academic Press, New York, 1975) 1–38.

[6] J. W. Miles, "Resonant response of harbors (the harbor paradox revisited)", *Proc. 8th Symp. Naval Hydro.* (1970) 95–115.

6. *Tables*. Each should be typed on a separate sheet with a centred heading TABLE 1 (or 2, 3, etc.), followed by a caption. The location should be shown in the text, e.g.

TABLE 1 NEAR HERE

7. *Figures*. Each figure should have a caption beginning: FIGURE 1 (or 2, 3, etc.). A list of these captions should be provided on a separate page at the end of the manuscript. Location of figures in the text should be shown, e.g.

FIGURE 1 NEAR HERE

Figures should be drawn in black ink with clean lines; do not use a ball point pen. The paper should be of a non-absorbent quality so that the ink does not spread and produce fuzzy lines. If the figures are intended for reduction they should be drawn with lines heavy enough that they do not become flimsy at the desired reduction. The lettering should be of professional quality and in proportion for the expected size reduction. That made with dry transfer lettering, lettering guide or scriber is most appropriate. If none of these possibilities is available, write in the lettering with pen or pencil, not obliterating any lines of the drawing; the lettering will then be typeset.

8. *Units*. The SI system of units should be used.

https://doi.org/10.1017/S033427000001064X Published online by Cambridge University Press