

JOURNAL OF ENGINEERING MATHEMATICS

INSTRUCTIONS TO AUTHORS

Aims and Scope

The aim of this journal is to promote the application of mathematics to problems from engineering and the applied sciences, in particular in the general area of engineering science. It also aims to emphasize the intrinsic unity, through mathematics, of the fundamental problems of applied and engineering science. The scope of the journal includes the following:

- **Mathematics:** Ordinary and partial differential equations, Integral equations, Asymptotics, Variational and functional-analytic methods, Numerical analysis, Computational methods.
- **Applied Fields:** Continuum mechanics, Stability theory, Wave propagation, Diffusion, Heat and mass transfer, Free-boundary problems; Fluid mechanics: Aero- and hydrodynamics, Boundary layers, Shock waves, Fluid machinery, Fluid-structure interactions, Convection, Combustion, Acoustics, Multi-phase flows, Transition and turbulence, Creeping flow, Rheology, Porous-media flows, Ocean engineering, Atmospheric engineering, Non-Newtonian flows, Ship hydrodynamics; Solid mechanics: Elasticity, Classical mechanics, Nonlinear mechanics, Vibrations, Plates and shells, Fracture mechanics; Biomedical engineering, Geophysical engineering, Reaction-diffusion problems; and related areas.

Prospective authors are encouraged to consult recent issues of the journal in order to judge whether or not their manuscript is consistent with the style and content of published papers. To be sent for review, papers must make a sufficiently compelling case for the significance of the results presented, especially with respect to potential applications.

Editorial Policy

- **Manuscripts:** Original research papers, dealing with subjects within the journal's scope, are solicited from all contributors. Occasionally, and by invitation only, survey or review papers will be considered. Special issues, each devoted to a particular theme, will appear occasionally. Proposals for special issues may be submitted to one or both of the joint Editors-in-Chief at any time. The preferred length of a typical research paper is between ten and thirty journal pages. Longer and shorter papers will be considered, but their quality should justify their length. Extremely short papers are best sent to journals specialising in the publication of short notes and letters.
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- **Authors' Right of Rebuttal:** Authors who strongly object to aspects of the reviewers' reports may write an appeal to the Editor-in-Chief. Their objections will be passed on to the referees.

If the matter remains unresolved, further referees may be consulted. The Editor-in-Chief may make a final decision at any stage in the appeal process.

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Journal of Engineering Mathematics **strongly** prefers the submission of manuscripts in LaTeX. A LaTeX style file can be obtained from the Journal website.

Submission of manuscripts in other formats may lead to longer processing times.

Authors must submit manuscripts to the journal's editorial office using Springer Nature's SNAPP system which can be found by clicking the 'Submit manuscript' button found on the journal's webpage (<https://www.springer.com/journal/10665>).

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All photographs, graphs and diagrams should be referred to as a 'Figure' and they should be numbered consecutively (1, 2, etc.). Multi-part figures ought to be labelled with lower case letters (a, b, etc.). Please insert keys and scale bars directly in the figures. Relatively small text and great variation in text sizes within figures should be avoided as figures are often reduced in size. Figures may be sized to fit approximately within the column(s) of the journal. Provide a detailed legend (without abbreviations) to each figure, refer to the figure in the text and note its approximate location in the margin. Please place the legends in the manuscript after the references.

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Each table should be numbered consecutively (1, 2, etc.). In tables, footnotes are preferable to long explanatory material in either the heading or body of the table. Such explanatory footnotes, identified by superscript letters, should be placed immediately below the table. Please provide a caption (without abbreviations) to each table, refer to the table in the text and note its approximate location in the margin. Finally, please place the tables after the figure legends in the manuscript.

References

References should be cited in the journal's style, examples of which can be found by consulting issues of the journal. References to web pages should include the date on which they were accessed.

Table of Nomenclature

Note that the journal does not use a table of nomenclature and so all symbols and notations should be defined when they are first used in the main text of the manuscript.

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All original research must include a data availability statement. Data availability statements should include information on where data supporting the results reported in the article can be found, if applicable. Statements should include, where applicable, hyperlinks to publicly archived datasets analysed or generated during the study. For the purposes of the data availability statement, "data" is defined as the minimal dataset that would be necessary to interpret, replicate and build upon the findings reported in the article. When it is not possible to share research data publicly, for instance when individual privacy could be compromised, data availability should still be stated in the manuscript along with any conditions for access. Data availability statements can take one of the following forms (or a combination of more than one if required for multiple datasets):

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3. All data generated or analysed during this study are included in this published article [and its supplementary information files].
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