

## **JOURNAL OF SOUND AND VIBRATION**

**AUTHOR INFORMATION PACK** 

**ISSN:** 0022-460X

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## **DESCRIPTION**

The Journal of Sound and Vibration (JSV) is an independent journal devoted to the prompt publication of original papers, both theoretical and experimental, that provide new information on any aspect of **sound** or **vibration**. There is an emphasis on fundamental work that has potential for practical application.

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The international system of units (SI) should be used as far as possible. When quantities are expressed in other units, give their equivalent in SI. For unit symbols, follow standard SI conventions. Thus Roman (normal upright) type is used, with spaces after the number. Spaces also separate unit symbols that are to be multiplied, e.g. 5 N m. Superscript powers, e.g. 30 mm2s-1, are preferred (rather than 30 mm2/s).

## Symbols:

Letter characters should be limited to the Latin and Greek alphabets. Authors wishing to present a table of nomenclature should do so on the second page of their manuscript. The following order should be used within this table: Latin characters should appear first, arranged a, A, b, B etc.; then Greek characters, similarly arranged; sub/superscripts, abbreviations, special functions etc. usually come as a separate final group. More detailed guidance is available here.

#### Math Formulae

**Mathematics** is printed using Latin or Greek symbols. Formatting conventions used in JSV are listed below. In order to assist the copyeditors and typesetters as far as possible, authors are kindly asked to ensure that the mathematical symbols used in the final version of their manuscript sent for typesetting follow *JSV* conventions. The Editors may request corrections of this nature before the manuscript can be accepted.

For additional guidance and examples, refer to STYLE or to any recent issue of JSV.

- **Use Roman (normal upright) type for**: Differential operators (e.g. d in differential); i or j (square root of -1); exp or e (base of natural logarithms); Re or Im (real or imaginary part); log, ln, sin, cos, etc.; abbreviations such as c.c. (complex conjugate); multiletter symbols (e.g. TL for transmission loss)
- **Use italic (sloping) type for**: all scalar quantities represented by a single letter symbol (Latinalphabet), except where noted above;
- Use upright bold for: vectors, matrices and tensors;
- Script (calligraphic) font may be used for operators, or for variables where the standard form of a Latin character has already been used;
- words like where or with following equations and explaining the notation used, should not begin with capital letters.

## **Figures**

When preparing Figures, authors are reminded that the lettering and symbols, as well as other details, should have proportionate dimensions, so as not to become illegible or unclear after possible reduction. Fonts smaller than 11 pt (or subscripts smaller than 8 pt) should be avoided. Typically, a reduction factor of two to three will be applied. The degree of reduction will be determined by the Publisher. Illustrations will not generally be enlarged.

It will often be helpful to consider the page format of the journal when designing the layout of Figures. Gridlines should be avoided when constructing graphs.

Ensure that each figure has a caption. Multipart figures require a single caption that describes all the parts (see example). Each figure and table file should be uploaded with an editable text caption (including figure/table number) attached, unless such captions already appear in the main text with figures/tables embedded.

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Footnotes should be used sparingly. Number them consecutively throughout the article, using superscript Arabic numbers. Many wordprocessors build footnotes into the text, and this feature may be used. Should this not be the case, indicate the position of footnotes in the text and present the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

Table footnotes

Indicate each footnote in a table with a superscript lowercase letter.

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Electronic artwork

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- All figures and the associated captions may be embedded within the text in the initial submission to aid reviewers.
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## Reference format examples:

- [1] H.Zeng, C.W.Bert, A differential quadrature analysis of vibration for rectangular stiffened plates. Journal of Sound and Vibration 241 (2001) 247-252. doi:10.1006/jsvi.2000.3295
- [2] Lord Rayleigh, Theory of Sound (two volumes), Dover Publications, New York, 1877, re-issued 1945.
- [3] P.Sas, Vibration testing: state of the art and challenges, in: M.D. Gilchrist (Ed.), Modern Practice in Stress and Vibration Analysis, A.A. Balkema, Rotterdam, 1997, pp.65-74.
- [4] R.S. Langley, The dynamic analysis of uncertain structures, Proceedings of the Seventh International Conference on Recent Advances in Structural Dynamics, Southampton, July 2000, pp. 1-20.

- [5] Yu.I. Bobrovnitskii, Restoration of the vibrational field inside a structure through the measurements on a part of its surface, Proceedings of the 15th International Congress on Acoustics, Vol. 1, Trondheim, Norway, 1995, pp. 479-482.
- [6] P.M.L. Ribeiro, Geometrical non-linear vibration of beams and plates by the hierarchical finite element method, PhD Thesis, University of Southampton, 1998.
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- [8] http://www.ecgcorp.com/velav/mainbar.html (Accessed 21 August 2006)
- [9] A.B. Smith, Personal communication, 1999.
- [10] Sysnoise rev. 5.5 User's Manual, LMS International, Leuven, Belgium, 2000.
- [11] International Organization for Standardization ISO 2631-1, Mechanical vibration and shock evaluation of human exposure to whole-body vibration part 1: general requirements, 1997.
- [12] P. Lueg, Process of silencing oscillations, U.S. Patent No. 2,043,416, 1936.

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