

Journal of Nuclear Science and Technology Instructions for Authors

(Last Revised in February 2002)

(<http://wwwsoc.nii.ac.jp/aesj/publication/instructions.pdf>)

◇ *Submission of Papers to the Journal of Nuclear Science and Technology (JNST)*

Papers should contain previously unpublished work not concurrently considered for publication elsewhere. All papers will be independently refereed.

Manuscripts should be sent to the following address:

Editor-in-chief
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Tokyo 105-0004, Japan.

Authors must attach the 'Submission Sheet,' 'Check List,' and 'Copyright Transfer & Page Charge Agreement' (available at <http://wwwsoc.nii.ac.jp/aesj/index-e.html>) to their manuscripts, or else they may be rejected. Furthermore, manuscripts that do not conform to the detailed instructions below may also be rejected. Submission by e-mail is unacceptable, as are any requests for a page-charge waiver.

Authors have the right to recommend a maximum of four experts in their research field as referee candidates. Authors can also recommend as many editors as they would like from our Editorial Board. Those recommendations will be taken into consideration by the Editorial Board when it selects the referees and the editor(s).

◇ *General Scope*

The Journal of Nuclear Science and Technology is devoted to the publication of submitted research papers as well as commissioned papers in all fields of nuclear engineering for peaceful applications and contributions to society.

◇ *Types of Papers*

Submitted Papers:

Authors must specify one of the following categories when submitting their papers:

- (1) Original Papers: Accounts of scientific or technological studies of original or constructive nature. (max. 12 printed pages)
- (2) Technical Reports: Accounts of new experiences or results, not necessarily of original, but of practical value. (max. 12 printed pages)
- (3) Technical Data: Accounts containing information judged to be worthy of publication for their scientific or technological interest. (max. 12 printed pages)
- (4) Short Notes: Accounts summarized in three printed pages or less, for the expeditious publication of original and important findings or results of scientific or technological nature. The Editorial Board will give precedence to items in this category that it deems most worthy of being published.
- (5) Review: Accounts of general survey on a specific research field, research subject, or technology, containing its historical background, significance, the state of current research or future prospects. The important subjects for study in the area are to be systematically described. It should not be just a reiteration of material that has been published, but a critical evaluation with the identification of relations, contradictions, gaps, and inconsistencies in the literature. (max. 15 printed pages)
- (6) Technical Memo: A note of up to two printed pages on research experiences, unique ideas, or interesting experimental results.

- (7) Letters to the Editors: Queries and comments of up to two printed pages on papers published in JNST.

Commissioned Papers:

The Editorial Board commissions lectures, summary reports and conference reports. In addition, the Editorial Board commissions special issues that focus on topics of special current interest and on pioneer and promising subject areas in nuclear science and technology, involving original and overview papers. Also, the proceedings of international conferences organized by the Atomic Energy Society of Japan are published as supplements of JNST.

◇ *Manuscript Preparation*

Language:

Manuscripts must be written in English.

Number of Copies, Page Size

One original and three copies should be provided, using double-spaced, single-column typing on plain, white paper, preferably of A4 size (210 mm × 297 mm). The suggested length of each typed page is 300 to 400 words.

Electronic Files:

For the use of editor and reviewers preparing review comments, contributors are requested to submit the text data, Tables, and Figures saved on a 3.5 floppy disk or CD-R. The text data and Tables should be saved in MS Word or ASCII format. Figures and photographic images must be in EPS(Photoshop, Illustrator), PDF, JPEG, Powerpoint, or Excel format. All the Figures and Tables should be saved in a single folder separate from Manuscript file.

Details to Be Included on First Page:

For original papers, technical reports, technical data and reviews, the first page should contain the title, the name and affiliation of each author, all of the authors' complete postal addresses, an abstract, and up to about ten keywords. Note that only submitted paper types 1 to 3 require keywords. The corresponding author's name should be identified with an asterisk and footnote, containing his or her telephone number, fax number and e-mail address. If the current affiliation and its postal address are different from those where the work was done, they should also be supplied as a footnote.

Abstract:

The length of the abstract should be 200 words or less. It should briefly state the purpose, method and results of the paper. Authors who are submitting short notes need not write an abstract.

Typography and Symbol Usage:

Care must be taken to ensure that all symbols are legible, that upper and lower case letters are distinctive, that superscripts and subscripts are identifiable, and that Greek letters are distinguishable. Typographical instructions can be added in red on the original if necessary. The metric system (SI) must be used for all scientific and technical data. The position of each figure and table should be indicated on the right-hand margin of the text.

Return of Manuscripts:

Submitted manuscripts will not be returned to their authors unless specifically requested.

Headings, Footnotes and Pagination

Use I, II, ... for major, 1, 2, ... for secondary, (1), (2), ... for tertiary, (a), (b), ... for fourth, and a), b), ... for fifth headings. Footnotes in the text should be marked by lower-case superscript letters (i.e., a, b and so on), and placed at the foot of the page. All sheets of the main body (excluding the first page mentioned above) should be numbered in sequence.

Abbreviations:

Standard abbreviations are acceptable in the text, but must not appear in the title or abstract of the paper. For local or newly coined abbreviations, the original term must be spelled out and enclosed in parentheses in its first usage within the text. For example, "Japan Power Demonstration Reactor (JPDR)."

Units:

All measurements and data should be given in metric (SI) units.

Equations:

Equations should be carefully written and checked so that a compositor can follow the copy easily. Equation numbers should be Arabic numerals enclosed in parentheses on the right-hand margin.

Figures (Usage):

Graphs, illustrations and photographs are all referred to as "Figure(s)" and should be consecutively numbered with Arabic numerals in the order of their appearance. Figures should be provided on separate sheets following the text rather than being inserted in the text. Each figure must have a descriptive title and all figure titles should be listed on a separate sheet.

Figures (Font Size, Type):

Figures should be designed to fit one or two column widths (8 cm and 17 cm, respectively) both on the printed sheets and data. Printed characters in the figures must be large enough to be legible and clear. The preferred Figure formats are EPS (Photoshop, Illustrator), PDF, JPEG, Powerpoint, PICT and TIFF. All figures should be labeled in the margin with the manuscript title, author's name, and figure number.

Figures (Color Printing):

Color printing is allowed as long as the extra cost is born by the author. Color figures contained in the original manuscript should be provided in color in the three copies, also.

Tables:

Each table should (1) carry a complete title, (2) be numbered in sequence with Arabic numerals, *e.g.*, "Table 1," and (3) be typed double-spaced on a separate sheet. Tables should not be imported in the text. Tables should be designed to fit in one column if possible, or two columns at most.

References (Location in Text):

Reference call-outs should be set in superscript with Arabic numerals, followed by a right parenthesis, and numbered consecutively for the whole text. Literature citations should be gathered at the end of the text.

References (Authors):

The use of the expression "*et al.*" is encouraged in the body of the paper when there are more than three authors. The names of authors in the reference list should be given in the form in which they appear on the cited work, with the family name (*i.e.*, surname) last.

References (Titles and Dates):

Authors are encouraged to supply full titles for the respective references. Titles of papers must be all lowercase, except for the first letters of the first word. Also, years of publication should be enclosed in parentheses.

A description of the format for each type of reference is as follows:

(1) Journals

Journal article references should include author's name, (paper title), journal title, volume number, initial page number and year of publication.

(2) Books

Book references should include the author's name, book title, edition or volume number if any, publisher, city of publication, initial page number and year of publication.

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Report references should include the author's name, (paper title), report title, report number, (full name of organization where the report was prepared), and year of publication.

(4) Proceedings

Proceeding references should include the author's name, (paper title), title of conference proceedings (with the location and date of the conference), volume number if any, initial page number and year of publication.

Reference format examples are given below:

- 1) K. Hashimoto, T. Sano, H. Unesaki, *et al.*, "Rapid estimation of core-power ratio in coupled-core system by rod drop method," *J. Nucl. Sci. Technol.*, **37**[7], 565 (2000).
- 2) S. Tanaka, S. Nagasaki, T. Ohe, *et al.*, "The role of cement to be expected in radioactive waste disposal system, (II): From the standpoint of materials design," *Nihon-Genshiryoku-Gakkai Shi (J. At. Energy Soc. Jpn.)*, **42**[3], 178 (2000), [in Japanese].
- 3) P. Billingsley, *Probability and Measure*, John Wiley & Sons, New York, 50 (1995).
- 4) K. Okumura, *High Speed Three-dimensional Nodal Code for Vector Computers*, JAERI-Data/Code 98-025, Japan Atomic Energy Research Institute, (1998).
- 5) K. Ishitani, Y. Yamane, A. Uritani, *et al.*, "Measurement of eigenvalue separation by using position sensitive proportional counter," *Proc. Int. Conf. on Physics of Reactors*, Mito, Japan, Sept. 16-20, 2000, p.E-161 (1996).

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Page charge:

AESJ charges 10,000 yen per page for the first 3 printed pages, 15,000 yen per page for the 4th to the 9th pages, and 30,000 yen per page for the 10th page and thereafter.

◇ *Please direct any inquires on paper submission to:*

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