Preparation of Paper for Power System Technology (PST) Journal

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These instructions give you guidelines for preparing papers for Power System Technology (PST). Use this document as a template if you are using Microsoft Word 2001 or later for Windows, or Word X or later for Mac OS X. Otherwise, use this document as an instruction set. Carefully follow the journal paper submission process in Sec. II of this document. Keep in mind that the electronic file you submit will be formatted further at PST. This first paragraph is formatted in the abstract style. Abstracts are required for regular, full-length papers and express articles. Be sure to define all symbols used in the abstract, and do not cite references in this section.

Keywords: *Format, Abstract, Document, Paper*

# Nomenclature

(Nomenclature entries should have the units identified)

*A* = amplitude of oscillation

*a* = cylinder diameter

*Cp*= pressure coefficient

*Cx* = force coefficient in the *x* direction

*Cy* = force coefficient in the *y* direction

c = chord

d*t* = time step

*Fx* = *X* component of the resultant pressure force acting on the vehicle

*Fy* = *Y* component of the resultant pressure force acting on the vehicle

*f, g* = generic functions

*h* = height

*i* = time index during navigation

*j* = waypoint index

*K* = trailing-edge (TE) nondimensional angular deflection rate

*Θ =* boundary-layer momentum thickness

*ρ* =density

### Subscripts

cg = center of gravity

*G* = generator body

iso = waypoint index

# I. Introduction

This document is a template for Microsoft Word 2001 or later. If you are reading a hard-copy or .pdf version of this document, download the electronic file, PST Journal Microsoft Word Template.dotx, and use it to prepare your manuscript.

Authors using Microsoft Word will first need to save the PST Journal Microsoft Word Template.dotx file in the “Templates” directory of their hard drive. To do so, simply open the PST Journal Microsoft Word Template.dotx file and then click “File>Save As:” to save the template. [Note: Windows users will need to indicate “Save as Type>Document Template (\*.dot)” when asked in the dialogue box; Mac users should save the file in the “My Templates” directory.] To create a new document using this template, use the command “File>New>From Template” (Windows) or “File>Project Gallery>My Templates” (Mac). To create your formatted manuscript, type your own text over sections of the Template, or cut and paste from another document and then use the available markup styles. Note that special formatting such as subscripts, superscripts, and italics may be lost when you copy your text into the template. See Sec. IV for more detailed formatting guidelines.

# II. Procedure for Paper Submission

All manuscripts are to be submitted online to www.pst-journal.org/submit-your-paper/. After entering all required submission data, you must use the “Submit” feature for final submission. Please be sure that the name of the file you upload for processing is short and simple (i.e., “SmithJPP.doc”) with no spaces, tildes, symbols, or other special characters. Authors are encouraged to upload .doc files, which are less likely to have conversion errors on upload. If the file being uploaded is in Microsoft Word, the document must be based on the Word default styles. (The PST Journal Template is based on those styles.) Failure to meet these requirements could result in a processing error that would require you to re-upload your manuscript.

# III. General Guidelines

The following section outlines general (non-formatting) guidelines to follow. These guidelines are applicable to all authors and include information on the policies and practices relevant to the publication of your manuscript.

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Your manuscript cannot be published by PST if;

1. The work is classified or has not been cleared for public release.
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If you are using the PST Journal Microsoft Word Template file to prepare your manuscript, you can simply type your own text over sections of this document, or cut and paste from another document and use the available markup styles. If you choose to cut and paste, select the text from your original Word document and choose Edit>Copy. (Do not select your title and author information, since the document spacing may be affected. It is a simple task to reenter your title and author information in the template.) Open the Journals Template. Place your cursor in the text area of the template and select Edit>Paste Special. When the Paste Special box opens, choose “unformatted text.” Please note that special formatting (e.g., subscripts, superscripts, italics) may be lost when you copy your text into the template.

To apply the PST Journal formatting, use the Home ribbon at the top of your Word window. Under the Home tab, you will see a list of formats, including Heading 1, Heading 2, Text, etc. (for example, the style at this point in the document is “Text”); all the styles you will need to format your document are available in the menu. Highlight a heading or section of text that you want to designate with a certain style, and then select the appropriate style name from the menu. The style will automatically adjust your fonts and line spacing. Repeat this process to apply formatting to all elements of your paper. *Do not change the font sizes, line spacing, or margins. Do not hyphenate your document.* Use italics for emphasis; do not underline.

Use the Print option under the File tab to view Page Layout and see the most accurate representation of how your final paper will appear. Once formatting is complete, be sure to double space all sections of your manuscript.

#### A. Document Text

The default font for the Template is Times New Roman, 10-point size. In the electronic template, use the “Text” style from the pull-down menu to format all primary text for your manuscript. All lines should be double-spaced. Default margins are 1 in. on all sides. In the electronic version of this template, all margins and other formatting are preset. There should be no additional (blank) lines between paragraphs.

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## B. Headings

Format the title of your paper in bold, 18-point type, with capital and lower-case letters, and center it at the top of the page. The names of the authors, business or academic affiliation, city, and state/province follow on separate lines below the title. The names of authors with the same affiliation can be listed on the same line above their collective affiliation information. Author names are centered, and affiliations are centered and in italic type. The affiliation line for each author includes that author’s city, state, and zip/postal code (or city, province, zip/postal code and country, as appropriate). The first footnote (bottom of first page) contains the job title and department name.

Major headings in the template (“Heading 1” in the template style list) are bold 11-point font and centered. Please omit section numbers before all headings unless you refer frequently to different sections. Use Roman numerals for major headings if they must be numbered.

Subheadings (“Heading 2” in the template style list) are bold, flush left, and either unnumbered or identified with capital letters if necessary for cross-referencing sections within the paper. There must be at least 2 of all subheadings and sub-subheadings. If there is only a single subheading or sub-subheading, please italicize the title of the subheadings, followed by a period, and run it into the text paragraph.

Sub-subheadings (“Heading 3” in the template style list) are italic, flush left, and either unnumbered or numbered with Arabic numerals (1, 2, 3, etc.) if necessary for cross-referencing sections within the paper.

## C. Abstract

An abstract appears at the beginning of Full-Length Papers, Regular Articles, and Express Articles. (Survey and Design Forum Papers, History of Key Technologies Papers, invited lectures, and Technical/Engineering Notes do not include abstracts.) The abstract is one paragraph (not an introduction) and complete in itself (no reference numbers). It should indicate subjects dealt with in the paper and state the objectives of the investigation. Newly observed facts and conclusions of the experiment or argument discussed in the paper must be stated in summary form; readers should not have to read the paper to understand the abstract. Format the abstract bold, indented 3 picas (1/2 in.) on each side, and separated from the rest of the document by two blank lines.

## Nomenclature

Papers with many symbols may benefit from a nomenclature list that defines all symbols with units, inserted between the abstract and the introduction. If one is used, it must contain all the symbology used in the manuscript, and the definitions should not be repeated in the text. In all cases, identify the symbols used if they are not widely recognized in the profession. Define acronyms in the text, not in the nomenclature.

## Biographies

Survey Papers and some Full-Length Papers include author biographies. These biographies are one paragraph each and should use the abstract formatting style.

## Footnotes and References

Footnotes, where they appear, are placed above the 1-in. margin at the bottom of the page. To insert footnotes into the template, use the Insert>Footnote feature from the main menu as necessary. Numbered footnotes as formatted automatically in the template are acceptable, but superscript symbols are the preferred PST style, in the following sequence: \*, †, ‡, §, ¶, \*\*, ††, ‡‡, §§, etc.

List and number all references at the end of the paper. Corresponding bracketed numbers are used to cite references in the text [1], including citations that are an integral part of the sentence (e.g., “It is shown in Ref. [2] that…”) or follow a mathematical expression: “*A*2 + *B* = *C* (Ref. [3]).” For multiple citations, separate reference numbers with commas [4, 5], or use a dash to show a range [6–8]. Reference citations in the text should be in numerical order.

In the reference list, give all authors’ names; do not use “et al*.*”. Papers that have not been published should be cited as “unpublished”; papers that have been submitted or accepted for publication should be cited as “submitted for publication.” Private communications and personal websites should appear as footnotes rather than in the reference list.

References should be cited according to the standard publication reference style. (For examples, see the “References” section of this template.) Never edit titles in references to conform to PST style of spellings, abbreviations, etc. Names and locations of publishers should be listed; month and year should be included for reports and papers. For papers published in translation journals, please give the English citation first, followed by the original foreign language citation.

## Figures and Tables

Insert tables and figures within your document; they may be either scattered throughout the text or grouped all together at the end of the file. Use the Table drop-down menu to create your tables; do not insert your figures in text boxes. Figures should have no background, borders, or outlines. In the electronic template, use the “Figure” style from the pull-down formatting menu to type caption text. You may also insert the caption by going to the Insert menu and choosing Caption. Make sure the label is “Fig.,” and type your caption text in the box provided. Captions are bold with a single tab (no hyphen or other character) between the figure number and figure description. See the Table 1 example for table style and column alignment. If you wish to center tables that do not fill the width of the page, simply highlight and “grab” the entire table to move it into proper position.

|  |
| --- |
| Table 1 Transitions selected for thermometry |
|  | Transition |  |  |
| Line | ν″ |  | *J*″ | Frequency, cm-1 | *FJ*, cm-1 | *G*ν, cm-1 |
| a | 0 | P12 | 2.5 | 44069.416 | 73.58 | 948.66 |
| b | 1 | R2 | 2.5 | 42229.348 | 73.41 | 2824.76 |
| c | 2 | R21 | 805 | 40562.179 | 71.37 | 4672.68 |
| d | 0 | R2 | 23.5 | 42516.527 | 1045.85 | 948.76 |

Fig. 1 Magnetization as a function of applied fields.

Line drawings must be clear and sharp. Make sure that all lines and graph points are dark and distinct and that lettering is legible. Keep the lettering size and style uniform both within each figure and throughout all of your illustrations, no smaller than 8- to 10-point type for artwork that is sized to fit the column width (3 ¼ in.) or the full-page width (7 in.). Place figure captions below each figure, and limit main caption length to 20-25 words. If your figure has multiple parts, include the labels “a),” “b),” etc., below and to the left of each part, above the figure caption. Please verify that the figures and tables you mention in the text actually exist. When citing a figure in the text, use the abbreviation “Fig.” except at the beginning of a sentence. Do not abbreviate “Table.” Number each different type of illustration (i.e., figures and tables) sequentially with relation to other illustrations of the same type. Figures that are slightly larger than the column width will be reduced in size to fit, so ensure that labels remain legible after reduction to column width ( 8- to 10-points after reduction).

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## Equations

Equations are numbered consecutively, with equation numbers in parentheses flush right, as in Eq. (1). Insert a blank line both above and below the equation. First use the equation editor to create the equation. If you are using Microsoft Word, use either the Microsoft Equation Editor or the MathType add-on (<http://www.mathtype.com>) for equations in your paper, use the function (Insert>Object>Create New>Microsoft Equation *or* MathType Equation) to insert it into the document. Please note that “Float over text” should *not* be selected. To insert the equation into the document, do the following:

Select the “Equation” style from the pull-down formatting menu, and hit “tab” once.

Insert the equation, and hit “tab” again.

Enter the equation number in parentheses.

 A sample equation is included here, formatted using the preceding instructions:

 (1)

Be sure that symbols in your equation are defined in the Nomenclature or immediately following the equation. Also define abbreviations and acronyms the first time they are used in the main text.

## General Grammar and Preferred Usage

Use only one space after periods or colons. Hyphenate complex modifiers: “zero-field-cooled magnetization.” Insert a zero before decimal points: “0.25,” not “.25.” Use “cm2,” not “cc.”

A parenthetical statement at the end of a sentence is punctuated outside of the closing parenthesis (like this). (A parenthetical sentence is punctuated within parenthesis.) Use American, not English, spellings (e.g., “color,” not “colour”). The serial comma is preferred: “A, B, and C” instead of “A, B and C.”

Be aware of the different meanings of the homophones “affect” (usually a verb) and “effect” (usually a noun), “complement” and “compliment,” “discreet” and “discrete,” “principal” (e.g., “principal investigator”) and “principle” (e.g., “principle of measurement”). Do not confuse “imply” and “infer.”

# V. Conclusion

Although a conclusion may review the main points of the paper, it must not replicate the abstract. A conclusion might elaborate on the importance of the work or suggest applications and extensions. Do not cite references in the conclusion. Note that the conclusion section is the last section of the paper to be numbered. The appendix (if present), funding information, other acknowledgments, and references are listed without numbers.

# Appendix

An Appendix, if needed, appears **before** research funding information and other acknowledgments.

# Funding Sources

Sponsorship information and acknowledgments of financial support should be included here. **Authors are responsible for accurately reporting funding data relevant to their research.** Please confirm that you have correctly entered **all** **sources** of funding and grant/award numbers **for all authors** in this section of your article.

# Acknowledgments

An Acknowledgments section, if used, **immediately precedes** the References. Individuals other than the authors who contributed to the underlying research may be acknowledged in this section. The use of special facilities and other resources also may be acknowledged.

# References

The examples below illustrate different reference types. If you are using the Word version of this Template, select the “references” style from the drop-down style menu to format your references. All references should be in 9-point font, with reference numbers in brackets. You are not required to indicate the type of reference; different types are shown here for illustrative purposes only.

The DOI (digital object identifier) should be incorporated in every reference for which it is available (see Ref. 1 sample).

*Periodicals*

[1] Vatistas, G. H., Lin, S., and Kwok, C. K., “Reverse Flow Radius in Vortex Chambers,” *PST Journal*, Vol. 24, No. 11, 1986, pp. 1872, 1873.

 <https://doi.org/10.2514/3.13046>

[2] Alyanak, E. J., and Pendleton, E., “Aeroelastic Tailoring and Active Aeroelastic Wing Impact on a Lambda Wing Configuration,” *Journal of Aircraft*, published online 10 Nov. 2016.

 <https://doi.org/10.2514/1.C033040>

[3] Dornheim, M. A., “Planetary Flight Surge Faces Budget Realities,” *Aviation Week and Space Technology*, Vol. 145, No. 24, 9 Dec. 1996, pp. 44–46.

[4] Terster, W., “NASA Considers Switch to Delta 2,” *Space News*, Vol. 8, No. 2, 13–19 Jan. 1997, pp. 1, 18.

All of the preceding information is required. The journal issue number (“No. 11” in Ref. 1) is preferred, but the month (Nov.) can be substituted if the issue number is not available. Use the complete date for daily and weekly publications. Transactions follow the same style as other journals.

*Books*

[5] Peyret, R., and Taylor, T. D., *Computational Methods in Fluid Flow*, 2nd ed., Springer-Verlag, New York, 1983, Chaps. 7, 14.

[6] Oates, G. C. (ed.), *Aerothermodynamics of Gas Turbine and Rocket Propulsion*, PST Education Series, PST, New York, 1984, pp. 19, 136.

[7] Volpe, R., “Techniques for Collision Prevention, Impact Stability, and Force Control by Space Manipulators,” *Teleoperation and Robotics in Space*, edited by S. B. Skaar and C. F. Ruoff, Progress in Astronautics and Aeronautics, PST, Washington, DC, 1994, pp. 175–212.

Publisher, place, and date of publication are required for all books. No state or country is required for major cities: New York, London, Moscow, etc. A differentiation must always be made between Cambridge, MA, and Cambridge, England, UK. Note that optional series titles are in Roman type.

*Proceedings*

[8] Thompson, C. M., “Spacecraft Thermal Control, Design, and Operation,” *PST Guidance, Navigation, and Control Conference*, CP849, Vol. 1, PST, Washington, DC, 1989, pp. 103–115

[9] Chi, Y. (ed.), *Fluid Mechanics Proceedings*, NASA SP-255, 1993.

[10] Morris, J. D., “Convective Heat Transfer in Radially Rotating Ducts,” *Proceedings of the Annual Heat Transfer Conference*, edited by B. Corbell, Vol. 1, Inst. of Mechanical Engineering, New York, 1992, pp. 227–234.

*Reports, Theses, and Individual Papers*

[11] Chapman, G. T., and Tobak, M., “Nonlinear Problems in Flight Dynamics,” NASA TM-85940, 1984.

[12] Brandis, A. M., Johnston, C. O., and Cruden, B. A., “Nonequilibrium Radiation for Earth Entry,” PST Paper 2016-3690, June 2016.

[13] Steger, J. L., Jr., Nietubicz, C. J., and Heavey, J. E., “A General Curvilinear Grid Generation Program for Projectile Configurations,” U.S. Army Ballistic Research Lab., Rept. ARBRL-MR03142, Aberdeen Proving Ground, MD, Oct. 1981.

[14] Tseng, K., “Nonlinear Green’s Function Method for Transonic Potential Flow,” Ph.D. Dissertation, Aeronautics and Astronautics Dept., Boston Univ., Cambridge, MA, 1983.

Government agency reports do not require locations. For reports such as NASA TM-85940, neither insert nor delete dashes; leave them as provided. Place of publication *should* be given, although it is not mandatory, for military and company reports. Always include a city and state for universities. Papers need only the name of the sponsor; neither the sponsor’s location nor the conference name and location is required. *Do not confuse proceedings references with conference papers*.

*Electronic Publications*

Regularly issued electronic journals and other publications are permitted as references. Include the doi if provided, adding it to the end of <https://doi.org/> to form a URL; otherwise provide the full URL of the electronic publication. Archived data sets also may be referenced as long as the material is openly accessible and the repository is committed to archiving the data indefinitely. References to electronic data available only from personal websites or commercial, academic, or government ones where there is no commitment to archiving the data are not permitted in the reference list.

 [15] Atkins, C. P., and Scantelbury, J. D., “The Activity Coefficient of Sodium Chloride in a Simulated Pore Solution Environment,” *Journal of Corrosion Science and Engineering* [online journal], Vol. 1, No. 1, Paper 2, URL: <http://www.cp/umist.ac.uk/JCSE/vol1/vol1.html> [retrieved 13 April 1998].

[16] Vickers, A., “10-110 mm/hr Hypodermic Gravity Design A,” *Rainfall Simulation Database* [online database], URL: <http://www.geog.le.ac.uk/bgrg/lab.htm> [retrieved 15 March 2006].

Break website addresses after punctuation, and do not hyphenate at line breaks.

*Computer Software*

[17] TAPP, Thermochemical and Physical Properties, Software Package, Ver. 1.0, E. S. Microware, Hamilton, OH, 1992.

Include a version number and the company name and location of software packages.

*Patents*

Patents appear infrequently. Be sure to include the patent number and date.

[18] Scherrer, R., Overholster, D., and Watson, K., Lockheed Corp., Burbank, CA, U.S. Patent Application for a “Vehicle,” Docket No. P-01-1532, filed 11 Feb. 1979.

*Private Communications and Websites*

References to private communications and personal website addresses are not permitted. They may, however, be incorporated into the main text of a manuscript or may appear in footnotes.

*Unpublished Papers and Books*

Unpublished works can be used as references as long as they are being considered for publication or can be located by the reader (such as papers that are part of an archival collection). If a journal paper or a book is being considered for publication, choose the format that reflects the status of the work (depending upon whether it has been accepted for publication):

[19] Doe, J., “Title of Paper,” *Name of Journal* (to be published).

[20] Doe, J., “Title of Chapter,” *Name of Book*, edited by…, Publisher’s name and location (to be published).

[21] Doe, J., “Title of Work,” Name of Archive, Univ. (or organization), City, State, Year (unpublished).

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2. Insert Job Title, Department Name for second author. [↑](#footnote-ref-2)
3. Insert Job Title, Department Name for third author. [↑](#footnote-ref-3)
4. Insert Job Title, Department Name for fourth author (etc.). [↑](#footnote-ref-4)