

**MANUSCRIPT TITLE (UP TO 6 INCHES IN WIDTH AND
CENTERED, 14 POINT BOLD FONT, MAJUSCULE)**

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The abstract should briefly state the purpose of the manuscript, the problem to be addressed, the approach taken, and the nature of results or conclusions that can be expected. It should stand independently and tell enough about the manuscript to permit the reader to decide whether the subject is of specific interest. The abstract shall be typed single space, justified, centered, and with a column width of 4.5 inches. The abstract is not preceded by a heading of “Abstract” and its length may not extend beyond the first page.

INTRODUCTION

The American Astronautical Society (AAS) publishes bound sets of printed conference proceedings for personal, institutional, and library usage. The availability of hardcopy enhances the longevity of your work and elevates the importance of your conference contribution to professionals through archival publication. To preserve the consistency and quality of the proceedings, all authors adhere to the latest version of AAS conference proceedings format.

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Your manuscript should include a paper number, a title, an author listing, an abstract, an introductory section, one or more sections containing the main body of the manuscript, a concluding summary section, and a reference or bibliography section. You may also include a section on notation, an acknowledgements section, and appendices, as illustrated in the sequel. You should *not* include a leading cover sheet. Author affiliation shall appear on the first page, added as a footnote to the last name of each the author. If a distributional release statement or copyright notice is required by your sponsor, this is added as a footnote to the title of the manuscript, appearing on the first page only. Page numbers should be centered halfway between the lower margin and the bottom edge

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of the page (*i.e.*, approximately 0.75 inches from the bottom). Copy should be single space with double space between paragraphs, with the first line of each paragraph indented 0.2 inches.

The recommended sans-serif font for paper number, title, and author listing is *Arial*, or, *Helvetica*. The title font and paper-number font should be the same: 14-point sans-serif, centered, and bold. The author-listing font should be 12-point sans-serif, centered, and bold. The recommended serif font for body text, headings, *etc.*, is *Times* or *Times New Roman* at 10-12 point, 11 point preferred. The captions for figures and tables are bold 10-point serif font. The endnote reference text and footnote text is 9-point serif font. The right-hand margin of body text should be justified; if not, it should be fairly even nevertheless. All text and text background shall remain uncolored (black on white). These conventions should be automatically implemented in this L^AT_EX template when the predefined styles of this template are used.

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THIS IS A SAMPLE OF A GENERAL SECTION HEADING

Numbering of section headings and paragraphs should be avoided. Major section headings are majuscule, bold, flush (aligned) left, and use the same style san-serif font as the body text. Widow and orphan lines should also be avoided; more than one line of a paragraph should appear at the end or beginning of a page, not one line by itself. A heading should not appear at the bottom of a page without at least two lines of text. Equations, figures, and tables must be sequentially numbered with no repeated numbers or gaps. Excessive white space — such as large gaps before, between, and after text and figures — should be minimal and eliminated where possible.

This Is a Sample of a Secondary (Sub-Section) Heading

Secondary, or sub-section, headings are title case (miniscule lettering with the first letter of major words majuscule), flush left, and bold. Secondary headings use the same serif font style as the body text and, like section headings, should not be numbered. Tertiary headings should be avoided, but if necessary, they are run-in, italic, and end in a period, as illustrated with the next six (6) paragraphs.

$$a = b^2 \tag{1}$$

Equations. Equations are centered with the equation number flush to the right. In the text, these equations should be referenced by name as Eq. (1) or Equation (1) (*e.g.*, not eq. 1, (1), or *Equation 1*). To improve readability, scalar variable names such as *a* and *b*² are usually italicized when appearing in text and equations.*

Abbreviations. When abbreviations for units of measure are used, lower case without periods is preferred in most instances; *e.g.* ft, yd, sec, ft/sec, *etc.*, but in. for inch.

Figures. Illustrations are referenced by name and without formatting embellishments, such as Figure 1, Figure 2, *etc.*, or, Figures 3 and 4 (*e.g.*, not figure (1), Fig. 1, Figure 1, *Figure 1*, *etc.*). Each illustration should have a caption unless it is a mere sketch. Single-phrase captions are usually in title case; they are bold 10-point serif font and centered below the figure as shown in Figure 1. An

*A section on mathematical notation is provided in the sequel.

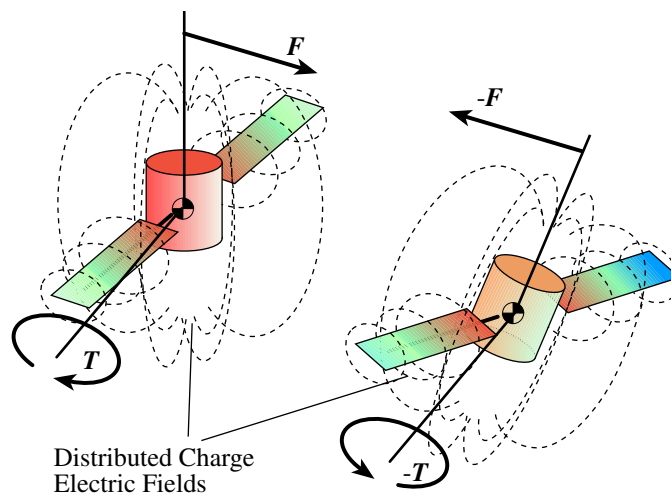


Figure 1. Illustration Caption Goes Here

explanatory caption of several sentences is permissible. Ideally, every illustration should be legibly sized – usually about one-half or one-quarter page – and appear in the text just before it is called out or mentioned. Alternatively, it is also permissible to place all figures together at the end of the text as a separate appendix; however, these two conventions should not be mixed. All figures and callouts should remain clearly legible after reduction. All illustrations appear as black and white in the final printing, although colors are retained in the electronic (CD-ROM) version.

Graphic Formats. The highest quality formats are Encapsulated PostScript (EPS) and PDF vector-graphic formats. These formats are recommended for all illustrations, unless they create document files that are excessively large. Specifically, you should change the graphic format or compress the image resolution whenever an illustrated page takes more than two seconds to render onscreen, or, whenever the total manuscript file size starts to approach 5 Mb. Photographs, illustrations that use heavy toner or ink (such as bar graphs), and figures without text callouts, may be suitably displayed with picture formats such as BMP, GIF, JPEG, PNG, TIFF, *etc.* Line drawings, plots, and callouts on illustrations, should not use picture formats that do not provide sharp reproduction. All graphical content must be embedded when creating a PDF document, especially any fonts used within the illustration. Note that the Windows Metafile Format (WMF) is sometimes problematic and should be avoided.

References and Citations. The citation of bibliographical endnote references is indicated in the text by superscripted Arabic numerals, preferably at the end of a sentence.^{1,2} If this citation causes confusion in mathematics, or if a superscript is inappropriate for other reasons, this may be alternately expressed as (Reference 1) or (see References 1 and 2), (*e.g.*, not [1], Ref. (1), *etc.*). While there is no singly prescribed format for every bibliographical endnote, references should be consistent in form. Citations should be sufficient to allow the reader to precisely find the information being cited, and should include specific pages, editions, and printing numbers where necessary. URL citations are discouraged, especially when an archival source for the same information is available. If a URL citation is required, it should appear completely and as a footnote instead of a bibliographical reference.[†] The citation of private communication is especially discouraged, but if required it

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should be cited as a footnote and include the date, professional affiliation, and location of the person cited.[‡]

Table 1. A Caption Goes Here

Animal	Description	Price (\$)
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.50
Emu	stuffed	33.33
Armadillo	frozen	8.99

Tables. Tables are referred to by name in the text as Table 1, or, Tables 2 and 3 (*e.g.*, not table 1, Tbl. 1, or *Table 1*). The title is centered above the table, as shown in Table 1. The font size inside tables should be no larger than the body text, but may be adjusted down to 9-point if necessary (10-point serif font is considered nominal). Note that table units are in parentheses. Only the minimum number of table lines needed for clarity is desired. Ideally, every table should appear within the text just before it is called out, but, it is also permissible to place all tables together at the end of the text as a separate appendix. If so, these two conventions should not be mixed.

Equations, figures, and tables must be sequentially numbered with no repeated numbers or gaps. Each figure and table shall be called out in the text; gratuitous figures and tables that are not called out should be eliminated. Intermediate equations may be numbered without being called out.

MANUSCRIPT SUBMISSION

The Portable Document Format (PDF) is the preferred format for electronic submissions.[§] The page size should be 8.5 inches by 11 inches exactly. You should use “press-quality” or “high-quality” software settings to create your PDF file; these settings tend to keep the PDF file true to the original manuscript layout, and automatically embed the correct fonts, *etc.* Otherwise, settings such as “Embed All Fonts”, *etc.*, should be selected as available. The use of internal hyperlinks within the electronic file is not encouraged because hyperlinks may not be supported in the final version of the electronic proceedings.

CONCLUSION

Your final manuscript should be camera-ready as submitted — free from technical, typographical, and formatting errors. Manuscripts not suitable for publication are omitted from the final proceedings.

ACKNOWLEDGMENT

Any acknowledgments by the author may appear here. The acknowledgments section is optional.

NOTATION

- a a real number
- b the square root of a

[‡]Gangster, Maurice (1999), personal correspondence of March 21st. Sr. Consultant, Space Cowboy Associates, Inc., Colorado Springs, CO.

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If extensive use of mathematical symbols requires a table of notation, that table may appear here. Where the first mathematical symbol is introduced, a footnote should direct the attention of the reader to this table.[¶] The notation table should be simple and reasonably consistent with the standards of modern technical journals, as illustrated above. The notation table does not need its own caption like an ordinary table, since the section heading serves this purpose. The notation section is optional.

APPENDIX: TITLE HERE

Each appendix is its own section with its own section heading. The title of each appendix section is preceded by “APPENDIX: ” as illustrated above, or “APPENDIX A: ”, “APPENDIX B: ”, *etc.*, when multiple appendices are necessary. Appendices are optional and normally go after references; however, appendices may go ahead of the references section whenever the word processor forces superscripted endnotes to the very end of the document. The contents of each appendix must be called out at least once in the body of the manuscript.

Miscellaneous Physical Dimensions

The page size shall be the American standard of 8.5 inches by 11 inches (216 mm x 279 mm). Margins are as follows: Top – 0.75 inch (19 mm); Bottom – 1.5 inches (38 mm); Left – 1.25 inches (32 mm); Right – 1.25 inch (32 mm). The title of the manuscript starts one inch (25.4 mm) below the top margin. Column width is 6 inches (152.5 mm) and column length is 8.75 inches (222.5 mm). The abstract is 4.5 inches (114 mm) in width, centered, justified, 10 point normal (serif) font.

REFERENCES

- [1] J. L. Doe and J. Q. Public, “The Parameterization of the Rotation Matrix using Redundant Attitude Coordinates,” *Nonlinear Dynamics*, Vol. 32, No. 3, 2005, pp. 71–92.
- [2] *Style Manual*. New York 17, New York: American Institute of Physics, 2nd ed., 1959.

[¶]The footnote symbols are a standard sequence: *, †, ‡, *etc.* This sequence of footnote symbols should restart with each new page.