

Preparation of Camera-Ready Manuscript for ULAB JSE

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Abstract

These instructions give you guidelines for preparing papers for ULAB Journal of Science and Engineering. It is slightly modified from the original template for IEEE Computer Society. Use this document as a template if you are using Microsoft Word 6.0 or later. Otherwise, use this document as an instruction set. An abstract should be 100 to 200 words for regular papers and should clearly state the nature and significance of the paper. Abstracts *must not* include mathematical expressions or bibliographic references.

Keywords—Keywords should closely reflect the topic and should optimally characterize the paper. Use about four key words or phrases in alphabetical order, separated by commas.

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1 INTRODUCTION

THIS document is a template for Microsoft Word versions 6.0 or later.

When you open the document, select “Page Layout” from the “View” menu in the menu bar (View | Page Layout), which allows you to see the footnotes. Then type over sections of the document or cut and paste from another document and then use markup styles. Please keep the template at 8.5” x 11” — do not set the template for A4 paper. The pull-down style menu is at the left of the Formatting Toolbar at the top of your Word window (for example, the style at this point in the document is “Text”). Highlight a section that you want to designate with a certain style, then select the appropriate name on the style menu. The style will adjust your fonts and line spacing. Use italics for emphasis; do not underline. Do not change the font sizes or line spacing to squeeze more text into a limited number of pages.

To insert images in Word, position the cursor at the insertion point and either use Insert | Picture | From File or copy the image to the Windows clipboard and then Edit | Paste Special | Picture (with “Float over text” unchecked).

2 PROCEDURE FOR PAPER SUBMISSION

2.1 Review Stage

Detailed submission guidelines can be found on the call for papers as well as webpages. All authors are responsible for understanding these guidelines before submitting their manuscript.

2.2 Final Stage

For papers accepted for publication, it is essential that the electronic version of the manuscript and artwork match the hardcopy exactly! The quality and accuracy of the content of the electronic material submitted is crucial since the content is not recreated, but rather converted into the final published version.

All papers are edited electronically.

2.3 Figures

All tables and figures will be processed as images. You will have the greatest control over the appearance of your figures if you are able to prepare electronic image files.

2.4 Copyright Form

A duly signed copyright form must accompany your final camera-ready submission. You can get a pdf version at: <http://www.ulab.edu.bd/journals/jse/>.

3 SECTIONS

As demonstrated in this document, the numbering for sections upper case Arabic numerals, then upper case Arabic numerals, separated by periods. Initial paragraphs after the section title are not indented. Only the initial, introductory paragraph has a drop cap.

4 CITATIONS

Citations should be as [1], [5] (as opposed to [1, 5] form.) Citation ranges should be formatted as [1]-[4]. When citing a section in a book, please give the relevant page numbers [2]. In sentences, refer simply to the reference number, as in [3]. Do not use “Ref. [3]” or “reference [3]” At the beginning of a sentence use the author names instead of “Reference [3],” e.g., “Smith and Smith [3] show ...”

5 EQUATIONS

If you are using Word, use either the Microsoft Equation Editor or the MathType add-on (<http://www.mathtype.com>) for equations in your paper (Insert | Object | Create New | Microsoft Equation or MathType Equation). “Float over text” should not be selected.

Number equations consecutively with equation numbers in parentheses flush with the right margin, as in (1). First, use the equation editor to create the equation. Then, select the “Equation” markup style. Press the tab key and write the equation number in parentheses. To make your equations more compact, you may use the solidus (/), the exp function, or appropriate exponents. Use parentheses to avoid ambiguities in denominators. Punctuate equations when they are part of a sentence, as in

$$\int_0^{r_2} F(r, \varphi) dr d\varphi = [\sigma r_2 / (2 \mu_0)] \cdot \int_0^\infty \exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i) d\lambda. \quad (1)$$

Be sure that the symbols in your equation have been defined before the equation appears or immediately following. Italicize symbols (*T* might refer to temperature, but *T* is the unit tesla). Per IEEE Computer Society, please refer to “(1),” not “Eq. (1)” or “equation (1),” except at the beginning of a sentence: “Equation (1) shows ...” Also see *The Handbook of Writing for the Mathematical Sciences*, 1993. Published by the Society for Industrial and Applied Mathematics, this handbook provides some helpful information about math typography and other stylistic matters.

Please note that math equations might need to be reformatted from the original submission for page layout reasons. This includes the possibility that some in-line equations will be made display equations to create better flow in a paragraph. If display equations do not fit in the two-column format, they will also be reformatted. Authors are strongly encouraged to ensure that equations fit in the given column width.

6 HELPFUL HINTS

6.1 Figures and Tables

Figures and tables should be sized as they are to appear in print. Figures or tables not correctly sized will be returned to the author for reformatting.

Place figure captions below the figures; place table titles above the tables. If your figure has two parts, include the labels “(a)” and “(b)” as part of the artwork. Please verify that the figures and tables you mention in the text actually exist. Tables are numbered numerically.

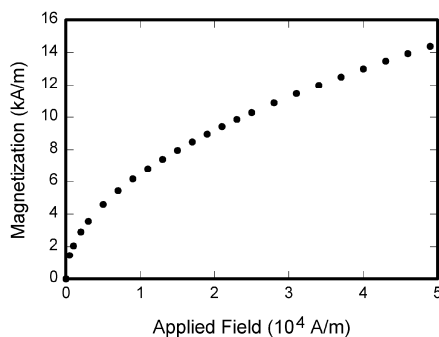


Figure 1: Magnetization as a function of applied field. It is good practice to briefly explain the significance of the figure in the caption.

TABLE 1
UNITS FOR MAGNETIC PROPERTIES

| Symbol | Quantity | Conversion from Gaussian and CGS EMU to SI ^a |
|----------------|---|---|
| Φ | magnetic flux | 1 Mx $\rightarrow 10^{-8}$ Wb = 10^{-8} V·s |
| B | magnetic flux density, magnetic induction | 1 G $\rightarrow 10^{-4}$ T = 10^{-4} Wb/m ² |
| H | magnetic field strength | 1 Oe $\rightarrow 10^3/(4\pi)$ A/m |
| m | magnetic moment | 1 erg/G = 1 emu $\rightarrow 10^{-3}$ A·m ² = 10^{-3} J/T |
| M | magnetization | 1 erg/(G·cm ³) = 1 emu/cm ³ $\rightarrow 10^3$ A/m |
| $4\pi M$ | magnetization | 1 G $\rightarrow 10^3/(4\pi)$ A/m |
| σ | specific magnetization | 1 erg/(G g) = 1 emu/g $\rightarrow 1$ A m ² /kg |
| j | magnetic dipole moment | 1 erg/G = 1 emu $\rightarrow 4\pi \times 10^{-10}$ Wb·m |
| J | magnetic polarization | 1 erg/(G·cm ³) = 1 emu/cm ³ $\rightarrow 4\pi \times 10^{-4}$ T |
| χ, κ | susceptibility | 1 $\rightarrow 4\pi$ |
| χ_p | mass susceptibility | 1 cm ³ /g $\rightarrow 4\pi \times 10^{-3}$ m ³ /kg |
| μ | permeability | 1 $\rightarrow 4\pi \times 10^{-7}$ H/m $= 4\pi \times 10^{-7}$ Wb/(A·m) |
| μ_r | relative permeability | $\mu \rightarrow \mu_r$ |
| w, W | energy density | 1 erg/cm ³ $\rightarrow 10^{-1}$ J/m ³ |
| N, D | demagnetizing factor | 1 $\rightarrow 1/(4\pi)$ |

Statements that serve as captions for the entire table do not need footnote letters.

^aGaussian units are the same as cgs emu for magnetostatics; Mx = maxwell, G = gauss, Oe = oersted; Wb = weber, V = volt, s = second, T = tesla, m = meter, A = ampere, J = joule, kg = kilogram, H = henry.

6.3 Footnotes

Number footnotes separately in superscripts (Insert | Footnote)¹. Place the actual footnote at the bottom of the column in which it is cited; do not put footnotes in the reference list (endnotes). Use letters for table footnotes (see Table 1). Please do not include footnotes in the abstract and avoid using a footnote in the first column of the article. This will cause it to appear of the affiliation box, making the layout look confusing.

6.4 Lists

If the number of items in the list is longer than three, for example, within the text lists would appear 1) using a number, 2) followed by a close parenthesis. However, longer lists will be formatted so that:

1. Items will be set outside of the paragraphs.
2. Items will be punctuated as sentences where it is appropriate.
3. Items will be numbered, followed by a period.

6.5 Theorems and Proofs

Theorems and related structures, such as axioms corollaries, and lemmas, are formatted using a hanging indent paragraph. They begin with a title and are followed by the text, in italics.

Theorem 1. *Theorems, corollaries, lemmas, and related structures follow this format. They do not need to be numbered, but are generally numbered sequentially.*

Proofs are formatted using the same hanging indent format. However, they are not italicized.

Proof. The same format should be used for structures such as remarks, examples, and solutions (though these would not have a Q.E.D. box at the end as a proof does).

7 END SECTIONS

7.1 Appendices

Appendices, if needed, appear before the acknowledgment. In the event multiple appendices are required, they will be labeled "Appendix A," "Appendix B," etc. If an article does not meet submission length requirements, authors are strongly encouraged to make their appendices supplemental material.

7.2 Acknowledgments

The preferred spelling of the word "acknowledgment" in American English is without an "e" after the "g." Use the singular heading even if you have many acknowledgments. Avoid expressions such as "One of us (S.B.A.) would like to thank" Instead, write "F. A. Author thanks" Sponsor and financial support acknowledgments are included in the acknowledgment section. For example: This work was supported in part by the US Department of Commerce under Grant BS123456 (sponsor and financial support acknowledgment goes here). Researchers that contributed information or assistance to the article should also be acknowledged in this section.

¹It is recommended that footnotes be avoided (except for the unnumbered footnote with the receipt date on the first page). Instead, try to integrate the footnote information into the text.

7.3 References

The order in which the references are submitted in the manuscript is the order they will appear in the final paper, i.e., references submitted nonalphabetized will remain that way.

Please note that the references at the end of this document are in the preferred referencing style. Within the text, use "et al." when referencing a source with more than three authors. In the reference section, give all authors' names; do not use "et al." Do not place a space between an authors' initials. Papers that have not been published should be cited as "unpublished" [4]. Papers that have been submitted or accepted for publication should be cited as "submitted for publication" [5]. Please give affiliations and addresses for personal communications [6].

Capitalize all the words in a paper title. For papers published in translation journals, please give the English citation first, followed by the original foreign-language citation [7].

8 CONCLUSION

Although a conclusion may review the main points of the paper, do not replicate the abstract as the conclusion. A conclusion might elaborate on the importance of the work or suggest applications and extensions. Authors are strongly encouraged not to call out multiple figures or tables in the conclusion—these should be referenced in the body of the paper.

ACKNOWLEDGMENT

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