

Submission Format for ICMARS -2009 (Title in 18-point Times font)

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ICRS , City, State/Region, Mail/Zip Code, Country (authors' affiliation(s) listed here in 12 point Times font – use a second line if necessary)

Abstract — Use 9 point Times New Roman Bold font for the abstract. Set your line spacing to be 10 points rather than single space. Indent the first line by 0.125 inches and type the word "Abstract" in 9 point Times New Roman Bold Italic. This should be followed by two spaces, a long dash (option / shift / minus), two spaces, and then the first word of your abstract (as shown above). Please try to keep the length of your abstract to 100 words or less. Times font is an acceptable substitute for Times New Roman font. After the abstract, you should list a few key words from the IEEE approved "Index Terms" that describe your paper. The index terms are used by automated IEEE search engines to quickly locate your paper. Typically, you should list about 5 to 7 key words, in alphabetical order, using 9 point Times New Roman Bold font. An example is shown next.

Index Terms — Ceramics, coaxial resonators, delay filters, delay-lines, power amplifiers.

I. INTRODUCTION

Please read through this entire template before you start using it to create your paper! This will save your time considerably and improve your chances for acceptance.

The following information is provided to help you prepare the Final Paper for submission to Microwave -08. (Many authors submit the same paper for the initial as well as the final submission. This is a common practice. See item #3 below.) A contributor should remember that:

- 1) Deadlines are *absolute*, don't even ask!
- 2) Summaries may not exceed **four** pages, including all figures, tables, references, etc. Additionally, there is a size limit on the electronic version of all Summaries. **We will accept only doc files but before submission to us please check that on converting it into Adobe Portable Document Format (PDF), file may not exceed 1 Megabyte.**
- 3) Many submitters with previous experience realize that, if their submission is accepted, they will be required to submit a version of their Final Paper to be published in the Symposium Digest. As the Digest paper will be similar in length to the Summary, many contributors opt to prepare their Summary in the format required for the

Digest. This template contains the instructions for the proper preparation of such a document.

II. OVERVIEW OF THE DIGEST FORMAT

We are requesting that you follow these guidelines as closely as possible so that the Digest has a professional look and resembles the MTT Transactions. All paragraphs of text, including the abstract, figure captions, and references, should be justified at the left *and the right* edges.

For the Title use 18-point Times (Roman) font. Its paragraph description should be set so that the line spacing is single with 6-point spacing before and 6-point spacing after (Format --> Paragraph --> Indents and Spacing). The font description for the Author List and Authors' Affiliation(s) should be 12-point Times. The paragraph descriptions should be set so that the line spacing is single with 6-point spacings before and after. Use an additional line spacing of 12 points before the beginning of the double column section, as shown above.

III. DETAILED TEXT FORMATTING

Using 8.5 x 11-inch paper, the top and bottom margins are 1.25 inches and 1.125 inches respectively, and the left and right margins are 1.0 inches and 0.85 inches. Except for Title, Authors and Affiliations, use a double column format. The column width is 3.275 inches and the column spacing is 0.25 inch.

Each major section begins with a Heading in 10 point Times font centered within the column and numbered using Roman numerals (except for ACKNOWLEDGEMENT and REFERENCES), followed by a period, a single space, and the title using an initial capital letter for each word. The remaining letters are in SMALL CAPITALS. The paragraph description of the section heading line should be set for 18 points before, 6 points after, and the line spacing should be set to exactly 12 points.

TABLE I
SUMMARY OF TYPOGRAPHICAL SETTINGS

Section	Font Specifics (Times Roman unless specified)			Paragraph Description				
	style	size	special	spacing (in points)			alignment	indent (in inches)
				line	before	after		
Title	plain	18	none	single	6	6	centered	none
Author List	plain	12	none	single	6	6	centered	none
Affiliations	plain	12	none	single	6	6	centered	none
Abstract	bold	9	none	exactly 10	0	0	justified	0.125 1 st line
Index Terms	bold	9	none	exactly 10	0	0	justified	0.125 1 st line
Headings	plain	10	small caps	exactly 12	18	6	centered	none
Subheadings	italic	10	none	exactly 12	6	6	left	none
Body Paragraphs	plain	10	none	exactly 12	0	0	justified	0.125 1 st line
Equations	Symbol font for special characters			single	6	6	centered	none
Figures	6 to 9 point sans serif (Helvetica)			single	0	0	centered	none
Figure Captions	plain	9	none	10	0	0	justified	none, tab at 0.5
References	plain	9	none	10	0	0	justified	0.25 hanging

For the body of your paper, use 10-point Times font and set your line spacing at "exactly 12 points" with 0 points before and after. Indent each paragraph by 0.125 inches.

Further details are provided in the remainder of this paper for specific situations.

A. Major Subsections

As shown, denote subsections with left justified 10-point Times Italic. Order them with capitalized alphabetic characters (*A, B,...*). Follow the letter designation with a period, a single space, and then the subsection title capitalizing the first letter of each word. The paragraph description of the subsection heading is set to "exactly 12-point" line spacing with 6 points before and after.

B. Equations

Equations should be centered in the column and numbered sequentially. Place the equation number to the right of the equation within a parenthesis, with right justification within its column. An example would be

$$+^c \oplus = \frac{\square}{t} + \oplus \quad (1)$$

or

$$\square \cdot = +J \quad \square D \cdot \quad (2)$$

Note that a period is used to properly punctuate the previous sentence. It is placed at the end of the second equation. *Make sure that any subscripts in your equations are legible and are not too small to read!* When referring to an equation, use the number within parenthesis. For

example, you would usually refer to the second equation as (2) rather than equation (2). If possible, use the Symbol Editor™ or MathType™. The paragraph description of the line containing the equation should be set for 6 points before and 6 points after. The paragraph spacing will need to be set to "single" rather than "exactly 12 point" so that the height will autoscale to fit the equation.

IV. FIGURES

Figures should utilize as much of the column width as possible in order to maximize legibility. Use a sans serif font, such as Helvetica or Arial. Helvetica and Arial are larger and much easier to read than Times. Using 6- to 9-point Helvetica usually results in a legible figure. *Do not use any font smaller than 6-point!* It must be legible. When referring to a figure, use the abbreviation Fig. followed by its number. Place figure captions directly below each figure. Use 9-point Times with the paragraph spacing set at "exactly 10 points". Set a tab at 0.5 inch.

Type "Fig. #" (# is the numeral) then tab over to the 0.5 inch mark before beginning the text of the figure caption. Note that figure captions are always (left and right) justified, rather than centered, even if they are less than a single full line in length. See the captions for Fig. 1 and Fig. 2.

Within Microsoft Word there are several options for placing figures within your paper. Often the easiest is to insert them between existing paragraphs allowing the figures to remain in that relative position. The paragraph description where the figure is inserted must be set to "single" spacing rather than "exactly 12 points" in order to

allow the line to autoscale in height to display the entire figure. Some disadvantages of this approach are that you don't have total flexibility in placing figures, and that the figures will move as text is inserted or deleted in any part of the document before the figure. If you elect to use this approach, it is recommended that you nearly complete the editing of your text before inserting any figures. Remember to allow room for them, however. Then begin inserting figures starting from the beginning of your document. Do not lump all figures at the end of the paper!

If you have difficulties with the titles on your figures, you can always elect to add in the titles as separate text boxes, rather than importing the titles with the graph. This is sometimes helpful in getting a lengthy vertically-oriented title to display correctly.

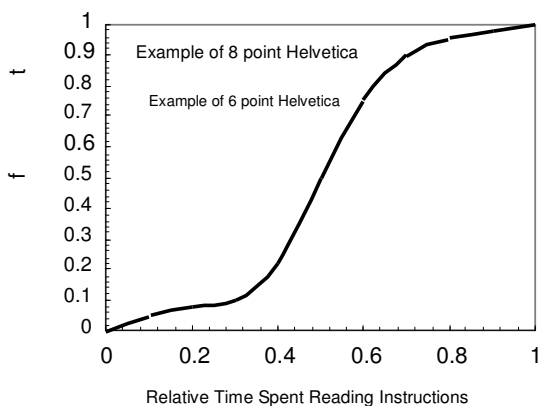


Fig. 1. Estimated relationship between the time an author spends reading these instructions and the quality of the author's digest article.

Notice that prior to the graph, a single 12-point line is used to separate the preceding text from the graph. The equivalent of a blank line should exist between the bottom of the graph (the x-axis caption) and the figure caption. (In this particular case, there was no need to add a blank line between the x-axis label and the figure caption, because there was already adequate spacing provided by the image border.) After the figure caption, there should be a single 12-point blank line before the text resumes.

More flexibility is obtained in inserting figures if you can place them exactly where you would like them to be on a page. This can be accomplished by inserting the figure, selecting the figure, and then choosing "Format Picture...". Various settings allow you to place the figure at an absolute position on a page; specify if the text is supposed to flow around the figure or if the figure should move with the text, etc. If you elect to let the text flow

around the figure, then remember that you will have to insert a separate text box for the caption, otherwise the figure caption is likely to become separated from the figure.

When importing a graph from Excel into Word, it is often helpful to special-paste it in as a "Picture (Enhanced Meta-file)". This saves file memory for Word documents. Be aware that the usual Copy --> Paste procedure will copy the *entire* Excel spreadsheet into your Word file. The Copy --> Paste Special --> Picture (Enhanced Metafile) command copies only the graph as a static picture.

If you decide to use color traces in your graphical data, *be absolutely certain* that there is no ambiguity about your graphical information when printed on a B&W printer.

Here is a common example of what can go wrong with the numbering and sizing of axis titles on a graph. In this case, the graph was initially pasted at a much larger size than the column width, and then reduced to fit:

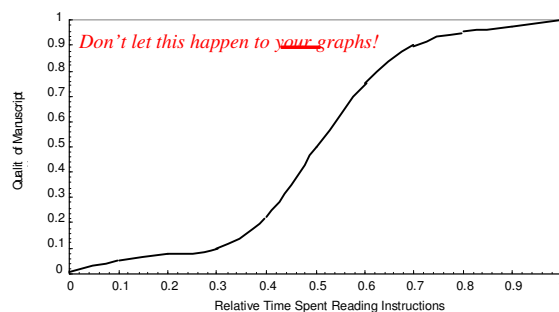


Fig. 2. Example of an improperly titled figure. The numerics and the labels on the axes are illegible. This will cause a submission to be rejected. Don't let this happen to you!

Table I on the second page was inserted using "Insert", "Text Box", creating the text contained in Table I, and then formatting the text box using all the settings available under "Format", "Text Box...". Table I also serves as an illustration of one of the rare instances when the double column format requirement can be violated. Certain figures and tables will require the full-page width to display. It is usually best to place these figures and tables at the top or bottom, rather than in the middle of a page. Tables should be entered within a single column if this can be done cleanly, without the entry becoming too crowded.

V. CITING PREVIOUS WORK

When referencing a journal article [1], a conference digest article [2] or a book [3], place the reference numbers within square brackets. To simultaneously cite

these references [1]-[3] use the format just demonstrated. The reference list is the last section and references are listed in the order cited. Use 9 point Times. The paragraph description is set for a line spacing of exactly 10 points with 0 point spacing before and after. A 0.25 inch hanging indentation should be specified.

Generally speaking, references should be very detailed. For journal articles, list all authors by initials and last name, the title of the paper in quotations (capitalizing only the first letter of the first word, unless it would be capitalized in a sentence, *e.g.*, a proper noun), the journal name in italics, the volume number, the issue number, the page numbers, and the date. Use the examples provided [1]-[3] as a guide.

VI. CREATION OF THE PDF FILE

Beginning in 2004, the IEEE has mandated that all published papers comply with certain IEEE conference standards for electronic searchability. Please note that a detailed checklist is available on the submission site to help guide authors through the task of converting their Word documents into PDFs. Going forward, this will ensure compatibility with the new search requirements for the IEEE Xplore database. However, we need to enter index number provided by IEEE and paper number on the first page of your paper. Therefore we are not asking your file in the PDF format.

For Microwave -08, we are asking all authors to submit their papers in Word documents only. After insertion of index number and paper number etc., we will convert it into PDF file. However we request you to please check before submission that on converting your doc file into Adobe Portable Document Format (PDF), the converted

pdf file may not exceed 1 Megabyte. All authors must follow the simple and specific guideline mentioned here. Failure to follow this guideline may jeopardize the publication of a paper.

VII. CONCLUSION

Although reading these instructions may have been an unpleasant experience, following them will improve the quality of your paper and the Microwave -08 Digest. Table -I summarizes much of the detail provided and illustrates one of the rare instances where the double column format can be violated. If you have comments, suggestions, or are willing to volunteer your time to improve these instructions, please contact publication Chair of Microwave -08 conference.

ACKNOWLEDGEMENT

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REFERENCES

- [1] W. H. Cantrell, "Tuning analysis for the high- Q class-E power amplifier," *IEEE Trans. Microwave Theory & Tech.*, vol. 48, no. 12, pp. 2397-2402, December 2000.
- [2] W. H. Cantrell, and W. A. Davis, "Amplitude modulator utilizing a high- Q class-E DC-DC converter," *2003 IEEE MTT-S Int. Microwave Symp. Dig.*, vol. 3, pp. 1721-1724, June 2003.
- [3] H. L. Krauss, C. W. Bostian, and F. H. Raab, *Solid State Radio Engineering*, New York: J. Wiley & Sons, 1980.