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## **ABSTRACT**

Use 8.5 x 11 paper size, with 1" margins on all sides. A required 200-250 word abstract starts on this line. Leave two blank lines before "ABSTRACT" and one after. Use 11 point Times New Roman here and single (11 point) spacing. The abstract is a very brief summary highlighting main accomplishments, what is new, and how it relates to the state-of-the-art.

## **KEYWORDS**

List of at most five key words

## **1. INTRODUCTION**

Paper starts here with two blank lines before the first section title. Use 8.5 x 11 paper size, with 1" margins on all sides. Use one blank line before and after each subsequent section's title. Section titles have style "Heading 1," are **11 point font**, must be all uppercase and text aligned left, and must be numbered in Arabic numerals as shown above. Introduce the topic of your work in this section.

Do not indent the first line of a paragraph; rather add one blank line between paragraphs. Use Times New Roman font (and Symbol if needed) and **font size 11** for the main body of the paper. There are four types of reference styles: journal paper [1], proceeding paper [2], book [3], and website [4]. References to websites are discouraged, but acceptable if absolutely necessary.

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### 2.1. SubsectionTitle: FirstCharacterofEachNon-TrivialWordisUppercase(11point)

Add a blank line before and after secondary titles. Secondary titles should start flush left and are numbered as illustrated above.

Equations should be centered and sequentially numbered to the flush right of the formula. Use Times New Roman or Euclid font with a font size 11 for the text variables and corresponding sizes proportionally for the subscripts and superscripts.

$$\partial_x U_k + \partial_x F_k(U) = \partial_x K U_k^{3/2} \partial_x U_k \quad (1)$$

The continuation of a paragraph after an equation is not indented. All paragraphs, section or subsection headings, as well as equations are separated by just one single empty line.

#### 2.1.1 Sub-subsection level and lower: only first character uppercase (11 point)

Figures and tables should appear as closely as possible to where they are first cited, e.g., Fig. 1. Figures are numbered in Arabic numerals, with the caption centered below the figure, in **boldface**. Use two blank lines before the figure and after the figure caption.

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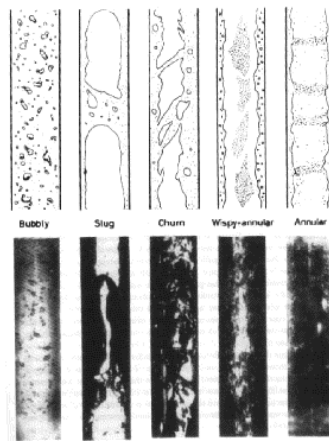
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Tables, such as Table 1, are numbered in Roman numerals, with the table title in **boldface** centered above the table with a blank line between the title and actual table.

**Table 1. Sample table: accuracy of nodal and characteristic methods**

Mesh	8 x 8	16 x 16	32 x 32	64 x 64
Nodal	1.000x10 <sup>-1</sup>	2.500x10 <sup>-2</sup>	6.250x10 <sup>-3</sup>	1.563x10 <sup>-3</sup>
Characteristic	1.000x10 <sup>-1</sup>	2.500x10 <sup>-2</sup>	6.250x10 <sup>-3</sup>	1.563x10 <sup>-3</sup>

Use SI Units. Conventional (non-SI) quantities may follow parenthetically if the author desires.



**Figure1. Sample Figure.**

### 3. CONCLUSIONS

Present your summary and conclusions here.

### NOMENCLATURE (IF NEEDED)

If variables are extensively used in the text, a Nomenclature section would be helpful to the readers.

### ACKNOWLEDGMENTS

Acknowledge the help of colleagues, and sources of funding, if you wish.

### REFERENCES

List references here, according to their first use in the paper. Include the following information (as applicable). Do not include these sentences in the full paper.

1. B.C. Author(s), "Title of the Journal Paper," *Journal Name in Italic*, **Volume in Bold** (followed by the issue number in parentheses if known, see Ref. 5 below), pp. 34-89 (2007).
2. D.E. Author(s), "Article Title," *Proceedings of Meeting in Italic*, Location, Dates of Meeting, Vol. 31, pp. 134-156 (2012).
3. F.G. Author, *Book Title in Italic*, Page or Chapter Numbers, Publisher, City and Country (1995).
4. "NEAMS Update," <http://www.ne.anl.gov/pdfs/NEAMS/NEAMSQuarterlyReport10-2014.pdf> (2014).
5. M. Ishii and S. Kim, "Development of One-group and Two-group Interfacial Area Transport Equation," *Nucl. Sci. Eng.* **146**(3), pp. 257-273 (2004).
6. R.P. Martin and C. Frepoli, "Physical Systems for Regulatory Investigation: Part II Evaluation Methodology," *Proceedings of 2014 International Topical Meeting on Advances in Thermal Hydraulics (ATH'14)*, Reno, Nevada, June 15–19, 2014 pp. 15-24 (2014).

7. S. Glasstone and W.H. Jordan, *Nuclear Power and Its Environmental Effects*, pp. 50, American Nuclear Society, La Grange Park, Illinois, USA (1980).

## APPENDIX A

If necessary, include Appendices numbered in upper case alphabetical order.

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