

## ENC-2022-XXXX

# INSTRUCTIONS FOR FORMATTING THE PROCEEDINGS PAPERS OF ENCIT 2022

### First Author's Name

### Second Author's Name

Institution and address for first and second authors - if the same  
e-mails

### Third Author's Name

Institution and address for third author  
e-mail

### Same format for others authors, if any

**Abstract.** *The abstract should describe the objectives, the methodology and the main conclusions of the paper in about 200 words. It should not contain neither formulae nor reference to bibliography.*

**Keywords:** keyword 1, keyword 2, keyword 3... (up to 5 keywords)

## 1. INTRODUCTION

The purpose of these instructions is to serve as a guide for formatting papers to be published in the Proceedings of the 19th Brazilian Congress of Thermal Sciences and Engineering (ENCIT 2022).

The proceedings of ENCIT 2022 will be published in Adobe™ PDF format.

The papers **MUST** be formatted strictly according to these instructions. The present file can be used as a template for L<sup>A</sup>T<sub>E</sub>X users. Also, it could be used as a formatting guide to users of other text processing software.

The paper is recommended to a maximum of **10** pages, including tables and figures.

## 2. TEXT FORMAT

The manuscripts should be written in English, typed in A4 size pages, using font Times New Roman, size 10, except for the title, authors affiliation, abstract and keywords, for which particular formatting instructions are indicated above. Single space between lines is to be used throughout the text.

The text block that contains the title, the authors' names and affiliation, the abstract and the keywords must be indented 0.1 cm from the left margin and marked by a leftmost black line border of width 2 1/4 pt.

The first page must have a top margin of 3 cm and all the other margins (left, right and bottom) must have 2 cm. All the other pages must be set with all margins equal to 2 cm.

### PAGES SHOULD NOT BE NUMBERED

The body of the text must be justified. The first line of each paragraph must be indented by 0.5 cm. Sufficient information must be provided directly in the text, or by reference to widely available published work. Footnotes should be avoided.

All the symbols and notation must be defined in the text. Physical quantities must be expressed in the SI (metric) units. Mathematical symbols appearing in the text must be typed in italic style.

Bibliographic references should be cited in the text by giving the last name of the author(s) and the year of publication, according to the following examples: "In a recent work (Bandarra Filho and Jabardo, 2011)..." or "Recently, Bandarra Filho and Jabardo (2011)..." In the case of three or more authors, the form "(Cavalini Junior *et al.*, 2015)" should be used. Two or more references having the same authors and publication year must be distinguished by appending "a", "b", etc., to the year of publication. For example: "In papers (Santos *et al.*, 2013a) and (Santos *et al.*, 2013b)..."

Acceptable references include journal articles (MLA, 2004), numbered papers, dissertations and theses (Cavalini Junior, 2013; Coelho, 2017), published conference proceedings, preprints from conferences, books (McConnell and Varoto,

2008) and submitted articles (if the journal is identified).

References should be listed at the end of the paper according to instructions provided in Section 4.

## 2.1 Section titles and subtitles

The section titles and subtitles must be aligned at left, typed with Times New Roman, size 10, bold style font. They must be numbered using Arabic numerals separated by points. No more than 3 sublevels should be used. One single line must be included above and below each section title/subtitle.

## 2.2 Mathematical equations

The mathematical equations must be indented by 0.5 cm from the left margin. They must be typed using Times New Roman, italic, size 10 pt. font. Arabic numerals must be used as equation numbers, enclosed between parentheses, right-aligned, as shown in the examples below. Equations should be referred to either as “Eq. (1)” in the middle of a phrase or as “Equation (1)” in the beginning of a sentence. Matrix and vector quantities can be indicated either by brackets and braces, as in Eq. (1), or in bold style, as in Eq. (2). Symbols used in the equations must be defined immediately before or after their first appearance.

One single line must be included above and below each equation.

$$[M]\{\ddot{x}\} + [C]\{\dot{x}(t)\} + [K]\{x(t)\} = f(t) \quad (1)$$

$$\mathbf{M}\ddot{\mathbf{x}}(t) + \mathbf{C}\dot{\mathbf{x}}(t) + \mathbf{K}\mathbf{x}(t) = \mathbf{f}(t) \quad (2)$$

## 2.3 Figures and tables

Figures and tables should be placed in the text as close as possible to the point they are first mentioned and must be numbered consecutively in arabic numerals. Figures must be referred to either as “Fig. 1” in the middle of a phrase or as “Figure 1” in the beginning of a sentence. The figures themselves as well as their captions must be centered in the breadth-wise direction. The captions of the figures should not be longer than 3 lines.

The legend for the data symbols as well as the labels for each curve should be included into the figure. Lettering should be large enough for ease reading. All units must be expressed in the S.I. (metric) system.

One blank line must be left before and after each figure.

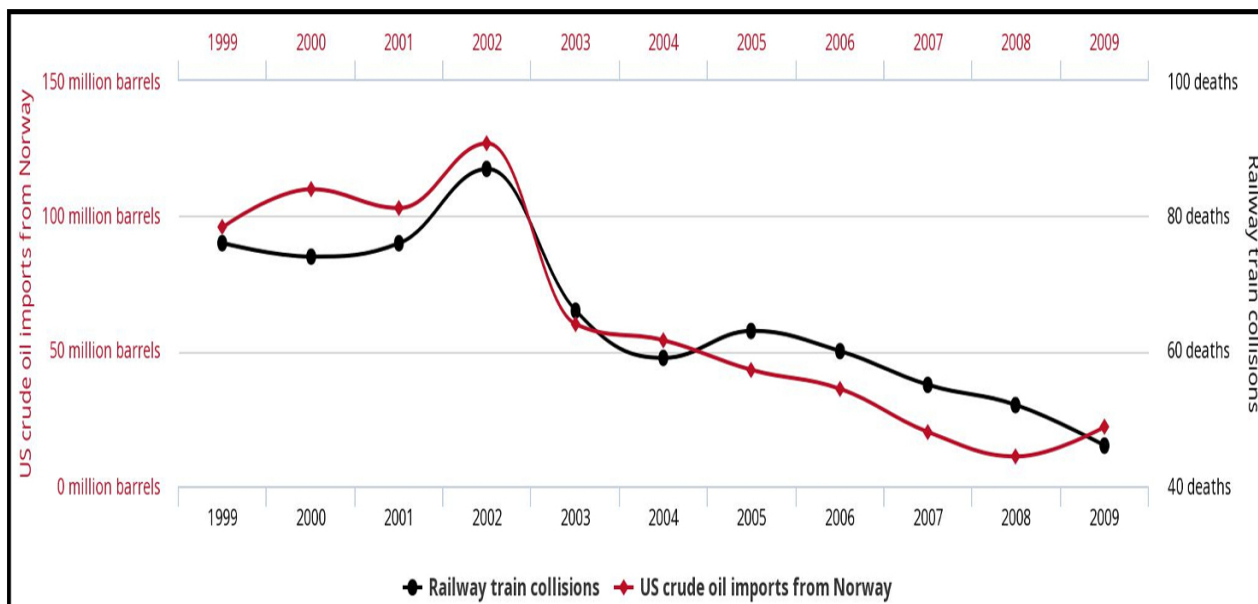


Figure 1. United States crude oil imports from Norway versus number of drivers killed in collision with railway train.  
 Available from: <http://tylervigen.com/spurious-correlations>

Color figures and high-quality photographs can be included in the paper. To reduce the file size and preserve the graphic resolution, figures must be saved into GIF (figures with less than 16 colors) or JPEG (for higher color density) files before being inserted in the manuscript.

Tables must be referred to either as “Tab. 1” in the middle of a phrase or as “Table 1” in the beginning of a sentence. The tables themselves as well as their titles must be centered in the breadth-wise direction. The titles of the tables should

not be longer than 3 lines. The font style and size used in the tables must be similar (both in size and style) to those used in the text body. Units must be expressed in the S.I. (metric) system. Explanations, if any, should be given at the foot of the tables, not within the tables themselves.

One blank line must be left before and after each table.

The style of table borders is left free. An example is given in Tab. 1.

Table 1. Experimental results for flexural properties of CFRC-4HS and CFRC-TWILL composites.  
Span/depth ratio = 35:1. Average results of 7 specimens.

| Composite Properties                           | CFRC-TWILL  | CFRC-4HS    |
|--|-------------|-------------|
| Flexural Strength (MPa) <sup>(1)</sup>         | 209 ± 10    | 180 ± 15    |
| Flexural Modulus (GPa) <sup>(1)</sup>          | 57.0 ± 2.8  | 18.0 ± 1.3  |
| Mid-span deflection at the failure stress (mm) | 2.15 ± 1.90 | 6.40 ± 0.25 |

<sup>(1)</sup> measured at 25°C

### 3. ACKNOWLEDGEMENTS

This optional section must be placed before the list of references.

### 4. REFERENCES

The list of references must be introduced as a new section, located at the end of the paper. The first line of each reference must be aligned at left. All the other lines must be indented by 0.5 cm from the left margin. All references included in the reference list must have been mentioned in the text.

References must be listed in alphabetical order, according to the last name of the first author. See the following examples:

- Bandarra Filho, E.P. and Jabardo, J.M.S., 2011. "Convective boiling performance of refrigerant R-134a in herringbone and microfin copper tubes". *International Journal of Refrigeration*, Vol. 29, No. 1, pp. 81–91.
- Cavalini Junior, A.A., 2013. *Deteção e identificação de trincas transversais incipientes em eixos horizontais flexíveis de máquinas rotativas*. Ph.D. thesis, Universidade Federal de Uberlândia, Uberlândia, Brasil.
- Cavalini Junior, A.A., Lara-Molina, F.A., Sales, T.P., Koroishi, E.H. and Steffen, V., 2015. "Uncertainty analysis of a flexible rotor supported by fluid film bearings". *Latin American Journal of Solids and Structures*, Vol. 12, pp. 1487–1504.
- Coelho, F.R., 2017. *Geração de novas correlações da soma-ponderada-de-gases-cinza para H<sub>2</sub>O e CO<sub>2</sub> em alta pressão*. Master's thesis, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brasil.
- McConnell, K.G. and Varoto, P.S., 2008. *Vibration Testing: Theory and Practice*. John Wiley & Sons, New Jersey, 2nd edition.
- MLA, 2004. "How do I document sources from the web in my works-cited list?" Modern Language Association. 22 Feb. 2007 <<http://www.mla.org>>.
- Santos, D.D., Furtado, G.M., Frey, S.L., Naccache, M.F. and de Souza Mendes, P.R., 2013a. "Flow of elasto-viscoplastic fluids inside a cavity". In *Proceedings of the 22nd International Congress of Mechanical Engineering - COBEM 2013*. Ribeirão Preto, Brazil.
- Santos, D.D., Furtado, G.M., Frey, S.L., Naccache, M.F. and de Souza Mendes, P.R., 2013b. "Numerical investigation of elastic and viscous effects on inertial viscoplastic fluid flows". In *Proceedings of the 22nd International Congress of Mechanical Engineering - COBEM 2013*. Ribeirão Preto, Brazil.

### 5. RESPONSIBILITY NOTICE

The following text, properly adapted to the number of authors, must be included in the last section of the paper:  
The author(s) is (are) solely responsible for the printed material included in this paper.