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I JOURNAL

FOR MECHANICAL AND MATERIAL ENGINEERING (16pt. Bold, capital letters, Times New Roman, single-spaced)

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(10pt.,Bold Times New Roman)

ABSTRACT(12pt., Bold Times New Roman)

The abstract should contain the goal, the methodology, and the main results of the paper. It should not have any formulas in it. The length of the abstract should not be less than 100 and should not exceed 200 characters. (12pt., Times New Roman, single spacing)

Keywords: Keyword1, keyword2,....., keyword5

NOMENCLATURE(12pt. Bold, Capital letter, Times New Roman)

Term 1 Interpretation 1

Term 2 Interpretation 2

e.g.

Ø Porosity

s Skin factor

INTRODUCTION (12pt. Bold, Capital letter, Times New Roman)

The introduction should introduce the reader to the subject of the paper, a review of the previous works related to the topic of the paper. (Times new roman 12pt. please don't number the references instead refer to the author's name and year of publication). For example:

Stirling engines can be operated by multiple heat sources such as biomass, solar, or even industrial excess heat (Flynn, Percival, and Heffner, 1960). The engine was invented by Church of Scotland minister Robert Stirling in 1816 but the concept of regenerative was not understood until 1871 (Vineeth C S, 2011).(12pt. Times New Roman single spacing)

STRUCTURE

The paper for publication can be subdivided into multiple sections: title, list of all the authors and their affiliations, a concise abstract, keywords, main text (including figures, equations, and tables), acknowledgement, references, and appendices.

Text Layout

Received:

Accepted:

Acceptable paper size is US Letter (8.5" × 11" or 21.59 cm × 27.94 cm). All margins-top, bottom, left, and right-are set to 1" (2.54 cm). The paper must be single column, single spaced, except for the headings as outlined below. Acceptable font is Times New Roman, 12 pt..

Headings

Level one headings for sections should be in bold, 12 pt. capital letters. Should be not numbered.

Level two headings for subsections should be in bold, 12 pt., small letters. Should be not numbered.

Level three headings should be in bold, 10 pt.,small letters. Should be not numbered.

MATHEMATICAL RELATIONS

The basic theoretical considerations are presented. We analyze the general formulations. The main text should be written using Times New Roman, 12 pt, and with bold sections and bold small letters subsections. The text should be 20 pages maximum, including figures.

The equations are written in Math Type, or equation editor size 12pt, with consecutive numbering:

$$V_e = V_{cle} + \frac{V_{swe}}{2} \left[1 - \cos\theta + \frac{1}{\lambda_e} \left(1 - \sqrt{1 - \lambda_e^2 \sin^2\theta} \right) \right] \quad (1)$$

Describe details about the general relations. The equations continued by numbering, i.e.

$$W = \oint P dV_c + \oint P dV_e \quad (2)$$

In-line equations/expressions are embedded into the paragraphs of the text. For example, $E = mc^2$. In-line equations or expressions should not be numbered and should use the same/similar font and size as the main text.

METHOD OF SOLUTION (12pt. Bold, Capital letter, Times New Roman)

Her the computational details must be given. Computational algorithm must be described in details.

RESULTS AND DISCUSSION (12pt. Bold, Capital letter, Times New Roman)

In this section the results obtained in the work must be presented and deeply discussed with all figures must be included after the conclusion before the list of references. This section must be started with a suitable verification to the mathematical model using the comparison with the experimental results or with the available published data by other workers (12pt. times new roman, single spacing). Figures must be included after the conclusions before the references list with captions written as follow:

Fig. 1. Distribution of stress along the surface. (a) Normal stress; (b) Tangential stress

CONCLUSIONS (12pt. Bold, Capital letter, Times New Roman)

The main results of the paper should be provided. The conclusions should not be copy-paste text from the previous text and Abstract (12pt.times new romans). They must be written as clear points sequentially.

FIGURES AND TABLES

All figures and tables must be inserted her (After conclusions and before references list)

Figures

Figures should have relevant legends but should not contain the same information which is already described in the main text. Figures (diagrams and photographs) should also be numbered consecutively using Arabic numbers. Figures, should have a figure caption placed underneath. The size of the figure is measured in centimeters and inches. Please prepare your figures at the size within 17 cm (6.70 in) in width and 20 cm (7.87 in) in height. Figures should be in the original scale, with no stretch or distortion

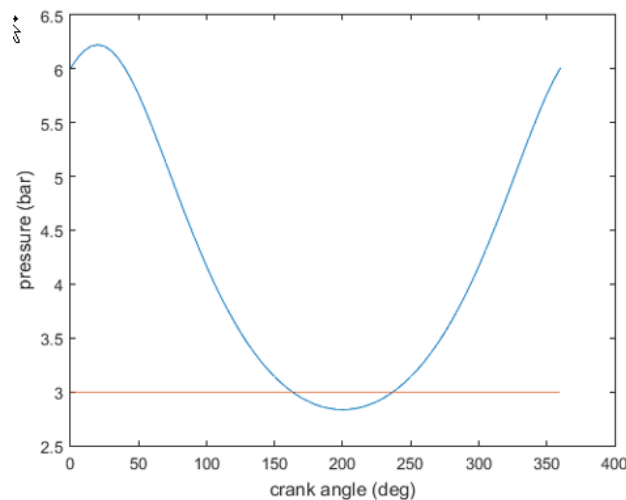


Fig.1. Pressure Vs. crank angle.....

Tables

Tables should also be numbered consecutively using Arabic numbers. Tables should have a table caption placed above. Captions should be centered in the format “Table 1. The text caption ...”. For one example, see Table 1. If the caption has more than one line, the text should be justify aligned on both ends.

Table 1. Physical properties of blends.....

Sample	Calorific value (kj/kg)	Density (kg/m ³)	Viscosity Pa. s	Octane number at 16.5°C
Gasoline (pure fuel)	43000	710	0.551	86

REFERENCES (12pt. Bold, Capital letter, Times New Roman)

(References must be prepared Alphabetically)

All references should be in font size 12 and listed at the end of the paper. They must be prepared alphabetically as in the following are examples for reference of journal article:

Abdullah, S., Yousif, B. F. and Sopian, K. 'Design consideration of low temperature differential double-acting Stirling engine for solar application', Renewable Energy, Vol.30,No.12, pp. 1923–1941, 2005 .doi.....

Bayraktar H. Theoretical investigation of using ethanol–gasoline blends on SI engine combustion and performance, Ph.D. Thesis, Karadeniz Technical University, Trabzon, Turkey, 1997.

Reference of a book: Author Surname, Author Initial, Title, Edition, Publisher Location: Publisher, year.

Ackermann, R. A., Cryogenic Regenerative Heat Exchangers, second edition ,Boston, MA: Springer US. 1997.

Reference of an online source: Author Surname, Title (year). URL.

Atluri, S. N. (2004). The meshless method (MLPG) for domain & BIE discretizations. http://www.techscience.com/info/mlpg_atluri.

Reference of a thesis: Author Surname, Title (Level),. Institution, year. For example
Zainab H. Kadhim, CFD analysis of elasto-hydrodynamic of journal bearing lubricated with nano-lubricant (M.Sc. Thesis), University of Babylon/College of engineering/ Mechanical eng.dept,2022.

Appendices

Authors that need to include an appendix should place it after the References section. Multiple appendices are allowed and they should be labeled in the order in which they appear in the text. Appendices shall be labeled as Appendix A, Appendix B, Appendix C, etc. The references in the appendix should be attached at the end of the appendix and renumbered from 1. The format should be consistent with the reference in the main text.