***Mechanical and Energy Engineering***

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**ABSTRACT**

**T**he abstract is written in size (**12**) with single space and it includes a general view of the research, the problem, the aim, method of solution, the most important results and conclusions, in not more than **200** words. These instructions give you guidelines for preparing papers for Engineering journal*.* Use this document as a template if you are using Microsoft *Word*. Otherwise, use this document as an instruction set. Full names of authors are required. Define all symbols used in the abstract. Do not cite references in the abstract. Do not delete the blank line in this template.

**Keywords:** Type 3 – 5 key words, separated by comma.

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***الخلاصة***

تكتب الخلاصة بحجم **12** وفراغ مفرد بين الاسطر. تتضمن الخلاصة نظرة عامة عن البحث، ومشكلته واهدافه وطريقة الحل. تعرض فيها أهم النتائج والاستنتاجات التي تم التوصل اليها. يجب أن لا تتجاوز عدد كلماتها **200** كلمة. هذه التعليمات لكتابة بحثك خاصة بمجلة الهندسة. يمكن استخدام هذا النموذج اذا كنت تستخدم برنامج الوورد للكتابة. عرف كل الرموز المستخدمة في الخلاصة. كتابة الاسم الكامل للباحث مطلوبة. لا يتم الاستشهاد في الخلاصة. لا تحذف الاسطر الفارغة في هذا النموذج.

**الكلمات الرئيسية:** اكتب 3-5 كلمات رئيسية تفصل بينهما بفارزة.

1. **INTRODUCTION**

The manuscript (main text) is written in size (**12**), single space, lower case and in a single column. The headlines are written in UPPERCASE, **bold** and size (**12**) and should be left justified. It must be numbered consecutively using Arabic numbers, starting with the Introduction. A space is left after the number and a line must be left before the headline. The headlines are written immediately after the left margin, as shown above. To avoid unnecessary errors you are strongly advised to use the ‘spellchecker’ function of MS Word. Follow this order when typing manuscripts: Title, Authors, Affiliations, Abstract, Keywords, Main text (including figures and tables), Acknowledgements, References, Appendix. Collate acknowledgements in a separate section at the end of the article and do not include them on the title page, as a footnote to the title or otherwise.

Bulleted lists may be included and should look like this:

* First point
* Second point
* And so on

**Please do not alter the formatting and style layouts that have been set up in this template document.**

* 1. **Sub-section Heading**

Section headings should be left justified, with the first letter capitalized written in **bold** and size (**12**). It must be numbered consecutively using Arabic numbers, a space is left after the number and a line must be left before the sub-section headline. The sub-section headings are written immediately after the left margin.

* + 1. General aspect

In case there is a paragraph in the sub-section headings, it must be written in lowercase, size (12) and with the starting letter of the first word in uppercase. It must be numbered consecutively using Arabic numbers, a space is left after the number and a line must be left before the sub sub-section headline. The sub sub-section headings are written immediately after the left margin.

1. **EQUATIONS**

First, use the equation editor to create the equation. The equation and formula must be written in Italic, and numbered consecutively with Arabic members in parentheses on the right hand of the page. The equation must not be introduced as a picture. A line must be left before and after the equation as shown below;

(1)

It must be referred to an equation as Eq. (1) through the article. To make your equations more compact, use parentheses to avoid ambiguities. Be sure that the symbols in your equation have been defined before the equation appears or immediately following.

1. **TABLES**

All tables should be numbered with Arabic numerals. Headings should be placed above tables, center justified. Leave one line space between the heading and the table. Horizontal and vertical lines should be used within a table, to distinguish the column headings from the body of the table, and immediately above and below the table. Tables must be embedded into the text and not supplied separately.

The table and its number are referred to in bold, and size (12). As an example: **Table 1** shows the variation of …….. While, through the main text: ……. As shown in **Table 2**.

Below is an example which authors may find useful.

**Table 1.** Reduction in maximum temperature of different locations.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Experiment | Reduction in maximum temperature of measuring points minus ambient temperature (oC) | | | |
| Dashboard | Steering wheel | Seat | Inside air |
| TD - Ta | Tst - Ta | Tse - Ta | Ti - Ta |
| Case # 1 | 58.0 | 53.7 | 27.4 | 29.9 |
| Case # 2 | 34.2 | 28.3 | 23.4 | 30.0 |
| Case # 3 | 19.1 | 22.1 | 21.3 | 24.7 |
| Case # 4 | 15.8 | 17.6 | 16.4 | 18.1 |
| Case # 5 | 10.8 | 9.5 | 9.5 | 12.7 |
| Case # 6 | 3.6 | 2.7 | 1.6 | 2.7 |

1. **FIGURES**

All figures should be numbered with Arabic numerals (1,2,...n). All photographs, schemas, graphs and diagrams are to be referred to as figures. Line drawings should be good quality scans or true electronic output. Low-quality scans are not acceptable. Figures must be embedded into the text and not supplied separately. Lettering and symbols should be clearly defined either in the caption or in a legend provided as part of the figure. Figures should be placed at the top or bottom of a page wherever possible, as close as possible to the first reference to them in the paper.

The figure number and caption should be typed below the illustration in 12pt and center justified.

The figure and its number are referred to in bold. As an example:  **Fig. 5** shows the ground water pressure on the retaining wall. Through the research, the figure is referred to as: It is clear from **Fig. 5** that the behavior…..

Below is an example which authors may find useful.

**Figure 1.** Variation of static pressure drop with different airflow rates.

**NOMENCLATURE**

The list of nomenclature must be started with Latin characters, then Greek ones in lowercase with units and should be sorted alphabetically, as an example:

A = area, m2.

A = clearness, m

Ta = ambient temperature, oC

α = altitude angle, deg.

Β = factor of variation, dimensionless.

**REFERNCES**

References should be added at the end of the paper, and its corresponding citation will be added in the order of their appearance in the text. Authors should ensure that every reference in the text appears in the list of references and vice versa. Indicate references by Clark et al., 1962 or Deal and Grove, 2009 or Fachinger, 2006 in the text.The references should be referred to through the research in Bold. The last name and the year is given, as an example: , **Duprez, 2007** For two: , **Duprez** and **Dumont, 2007** For more than that:  **Duprez, et al., 2007**

The references must be gathered at the end of the research in alphabetical form without numbering and a line must be left before and after each reference.

For journal article:

Al-Kayiem, Hussain H., Sidik, M. Firdaus Bin M. and Munusammy, Yuganthira R.A.L., 2010, *Study on the thermal accumulation and distribution inside a parked car cabin*, American journal of applied sciences, 7(6),784-789.

For book:

Mastalerz, J.W., 1977, *The Greenhouse Environment*, John Wiley and Sons, New York.

For online:

PROCESS Corp., MA. Intranets: *Internet technologies deployed behind the firewall for corporate productivity*. Presented at INET96 Annual Meeting. [Online]. Available: <http://home.process.com/Intranets/>

**Appendix A**

Authors including an appendix section should do so after References section. Multiple appendices should all have headings in the style used above. They will automatically be ordered A, B, C etc.

* 1. Example of a sub-heading within an appendix

There is also the option to include a subheading within the Appendix if you wish.