This is How the Paper Title Should be Written

XXXX1, YYYY2, and ZZZZ3

**1**Department of Mechanical Engineering, NIT Calicut, Kerala-673601, India

**2**Department of Applied Mechanics, IIT Delhi, New Delhi-110016, India

**3**Department of Chemical Engineering, NIT Calicut, Kerala-673601, India

**ABSTRACT**

Write your abstract here in 10-point Times New Roman. Limit the abstract within 200 words. The whole manuscript should be limited to 5-6 pages.

**Keywords**: Write five keywords here in 10-point Times New Roman.

# INTRODUCTION

Write your introduction section here in 10-point Times New Roman. The introduction part should give the necessary background / motivation behind the work. The citations of others’ work may be bracketed [1-4] appropriately.

# LITERATURE REVIEW AND OBJECTIVE

This subsection should contain the literature review and the objective of the work undertaken. Write text matter here in 10-point Times New Roman. Necessary citations may be bracketed [5-8] appropriately.

|  |  |
| --- | --- |
| $$x=\frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$$ | (1) |

# MATERIALS AND METHODS

Write your texts here in 10-point Times New Roman. This part should contain the necessary matters related to computational, experimental and analytical investigations. Necessary citations may be bracketed [9, 10] appropriately. All Figures and Tables are to be cited within the text. The Figure/Table captions must be written in Times New Roman 9 point, bold. The Figure caption should appear at the bottom of the Figure, while the Table caption should appear on top of the Table.

|  |
| --- |
| Experimental investigation of a heat pump-assisted solar  humidification–dehumidification desalination system with a free-flow solar  humidifier | SpringerLink |
| **Figure 1: Schematic diagram of the set-up**  |

Table 1: Accuracy of aerodynamic independent variables

|  |  |
| --- | --- |
| Independent Variables | Accuracy |
| Combined Rotor torque (*Trotor*) | $$\pm 1\%$$ |
| Angular velocity of combined rotor $(ω$) | $$\pm 2\%$$ |

(As indicated above, all the notations are to be italicized and be written in 10 Point Times New Roman)

* 1. Subtitle

Write text matter here in 10-point Times New Roman.

# RESULTS AND DISCUSSION

The analysis of results is to be written here in 10-point Times New Roman. All Figures are to be cited within the text. Results obtained may be compared with the published data wherever applicable/possible through necessary citations in bracketed form [11, 12].

* 1. Subtitle

Write text matter here in 10-point Times New Roman. All Figures are to be cited within the texts.

|  |
| --- |
| figure10 |
| **Figure 2: Variation of PCF with air flow rate** |

# CONCLUSIONS

The key findings of the work are to be placed here in 10-point Times New Roman. The conclusion part should be qualitative and quantitative.

ACKNOWLEDGEMENTS

Place any acknowledgements here in 10-point Times New Roman.

NOMENCLATURE

|  |  |  |
| --- | --- | --- |
| *A* | Frontal area of rotor | [m2] |
| *AR* | Aspect ratio | -- |
| *CD* | Drag coefficient | -- |
| *α* | Angle of attack  | (ᵒ) |
| *ρ* | Density of air | [kg/m3] |
| *ω* | Rotor rotational speed | [rad/s] |

(As indicated above, all the notations are to be italicized and be written in 10 Point Times New Roman)

REFERENCES

1. T. Ogawa, H. Yoshida, and Y. Yokota, Development of Rotational Speed Control Systems for a Savonius-type Wind Turbine, ASME Journal of Fluids Engineering, 111(1), 1989, p. 53**. (All the references are to be written in 10-Point Times New Roman, unbold)**
2. C. D. Rakopoulos, and E. G. Giakoumis, Second-Law Analyses Applied to Internal Combustion Engine Operation, Progress in Energy and Combustion Science, 32(1), 2006, pp. 2-47.
3. M. Eswaran, Waves Simulation in an Excited Cylindrical Tank Using σ-transformation, Paper No. IMECE2010–39752, ASME International Mechanical Engineering Congress and Exposition, November 12–18, 2010, Vancouver, Canada.
4. K. M. Hussain, Aerodynamic Performance Evaluation of a Novel Turbine, PhD thesis, Department of Mechanical Engineering, IIT Guwahati, India, 2016.
5. ANSYS Inc, ANSYS Fluent Theory Guide 12.0, 2015.
6. F. M. White, Fluid Mechanics, McGraw-Hills, New York, USA, 2011.