**Proceedings of the 3rd National Aerospace Propulsion Conference**

**NAPC-2020**

**Dec 17-19, 2020, B.M.S. College of Engineering, Bengaluru**

**Put paper number here (will be assigned)**

**PUT PAPER TITLE HERE**

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**ABSTRACT**

A short abstract (150 words maximum) should open the paper. The purposes of an abstract are:

* to give a clear indication of the objective, scope, and results of the paper so that readers may determine whether the full text will be of particular interest to them;
* to provide key words and phrases for indexing, abstracting, and retrieval purposes.

The abstract should not attempt to condense the whole subject matter into a few words for quick reading.

**NOMENCLATURE**

Nomenclature should follow customary usage. The nomenclature list should be in alphabetical order (capital letters first, followed by lowercase letters), followed by any Greek symbols, with subscripts and superscripts last, identified with headings.

**INTRODUCTION**

Early prior research performance enhancement for the (1, 2) and the existence of contra rotating fan (crf)…

*Body*: This is the standard paragraph format *Equation*:

*F* = *Ma* (1)

Note that equations need to be numbered in order.

# **HEADING1: BE SURE TO MAKE THIS ALL CAPS**

**Heading2:**

# **Figures**

Figures should be placed within anchored frames. Be sure to leave space within that frame for a text box for the caption.

# **Figure 1. The caption for a figure**

Figures should be referenced within the text as “Fig. 1." When the reference to a figure begins a sentence, the abbreviation “Fig.” should be spelled out, e.g., “Figure 1."

# **Equations**

Equations should be referenced within the text as “Eq. (n).” When the reference to an equation begins a sentence, it should be spelled out, e.g., “Equation (n).”

# **Reference Citations**

Within the text, references should be cited by giving the last name of the author(s) and the year of publication of the reference. The year should always be enclosed in parentheses; whether or not the name of the author(s) should be enclosed within the parentheses depends on the context.

In the case of two authors, the last names of both authors should be included in the citation, for example, with the word “and” separating the two authors.

Example: Mistry and Pradeep (2011)

In the case of three or more authors, only the last name of the first author of the reference should be included, as shown in the below examples, with the other authors being denoted by “et al.”

Example: Lengyel et al. (2009)

In the case of two or more references with the same author(s) and with the same year of publication, the references should be distinguished in the text by appending a lowercase letter “a” to the year of publication of the first cited, a letter “b” to the second cited, etc.

Example: Sparrow (1980b)

The references should follow the examples shown above.

# **CONCLUSIONS**

Put conclusions here.

**ACKNOWLEDGMENTS**

Put acknowledgments here.

**REFERENCES**

Reference to journal articles, papers in conference proceedings, or any other collection of works by numerous authors should include:

* year of publication
* full title of the cited article
* full name of the publication in which it appeared
* volume number (if any)
* inclusive page numbers of the cited article

Reference to textbooks, monographs, theses, and technical reports should include:

* year of publication
* full title of the publication
* publisher
* city of publication
* inclusive page numbers of the work being cited

In all cases, titles of books, periodicals, and conference proceedings should be underlined or in italics. There is a format, *Reference*, that can be used for references. following are some examples:

1. Gracery,W., 1956, "Wind Tunnel Investigation of a Number of Total-Pressure Tubes at High Angles of Attack Subsonic, Transonic and Supersonic Speeds ,’’ NACA Technical Report 1303.
2. Mistry, C.S. and Pradeep, A. M., 2011, "Design and Performance Analysis of a Low Speed, High Aspect ratio Contra Rotating Fan Stage,’’ *Proceedings, 11th Asisan International Conference on Fluid Machinery*, IIT Madras.
3. Sparrow, E. M., 1980a, "Fluid-to-Fluid Conjugate Heat Transfer for a Vertical Pipe - Internal Forced Convection and External Natural Convection,’’ *ASME Journal of Heat Transfer*, Vol. 102, pp. 402-407.
4. Sparrow, E. M., 1980b, "Forced-Convection Heat Transfer in a Duct Having Spanwise-Periodic Rectangular Protuberances,’’ *Numerical Heat Transfer*, Vol. 3, pp. 149-167.
5. Mistry, C. S., 2014, "Experimental Investigations on the Performance of a Contra Rotating Fan Stage Under Clean and Distorted Inflow Conditions,’’ Ph.D. Thesis, IIT Bombay, India.
6. Lengyel, T., Voß, C., Schmidt, T., and Nicke, E., 2009. “Design of a Counter Rotating Fan - An Aircraft Engine Technology to Reduce Noise and CO2 -Emissions”. *Proceedings,* *ISABE*, ISABE 2009-1267., pp. 1–10.

**ANNEX A**

**PUT ANNEX TITLE HERE**

Put text of Annex here