



67th Indian Foundry Congress

Concurrently with

15th Asian Foundry Congress

Theme: Mission World Market

18-20 January, 2019 | India Expo Centre, Greater Noida, India

INSTRUCTIONS FOR PREPARATION OF FINAL PAPERS FOR THE 67th INDIAN FOUNDRY CONGRESS

(SET UP PAGE TO A4 SIZE (21 cm × 29.7 cm) PAPER. THE RIGHT, LEFT, UPPER AND LOWER MARGINS ARE 2 cm EACH. THE CONTENT SHOULD BE TYPED SINGLE SPACED IN TWO COLUMNS OF EQUAL WIDTH WITH 0.8 cm SPACING BETWEEN COLUMNS AND FULL JUSTIFICATION.)

(TITLE-14 POINTS ARIAL NARROW BOLD CENTERED)

R. Gupta*, B.K. Ramesh** and G.L. Datta*** (12 point Arial Narrow, centered)

*Deputy Director, Central Road Research Institute, New Delhi 110 020, INDIA

**Lecturer, Department of Mechanical Engineering, IIT Kharagpur, Kharagpur 721302, INDIA

***Professor, Department of Mechanical Engineering, IIT Kharagpur, Kharagpur 721302, INDIA,
e-mail: gld@mech.iitkgp.ernet.in (Arial Narrow, 10 point, centered)

ABSTRACT –The abstract should be set in 10 point, Arial Narrow, be preceded by the word ‘ABSTRACT’ in bold and be not more than 250 words. A soft copy of each paper should be uploaded on the website: www.ifcindia.net with photographs, figures and tables in place. If unable to upload, send the Word file containing the paper on CD or DVD or pen drive. Do mention the title and names of all authors on the disk. Please use MS Office Word 2007 (compatibility mode). Do not number pages, page numbers will be allocated once the Proceedings are compiled.

Key words: Key words should be set in 10 point italic, Arial Narrow, and be preceded by the word ‘Key words:’ in bold. The number of key words should not exceed 10.

NOTATION (optional)

E	Young's modulus
x, y, z	Cartesian coordinates
A	Dimensionless variable
σ	Stress, Standard deviation

(A list of notation used in the paper could be provided at the beginning of the main text, following the abstract. All symbols should be in *Italics* and the entire list set in 10 point, Arial Narrow.)

SECTION HEADING (main heading)

Main headings should be in capital letters, set in 12 point bold and have one line space above and one line space below. The body text should be set in 12 point, full justified. A sample text document is as shown:

Of late, Sahoo et al. [1] have developed conventionally cast Al-8.3Fe-0.8V-0.9Si alloy with suitable modifiers. The properties of cast Al-Fe-V-Si alloys are determined by the fineness in microstructures and distribution of their phases. ... The mechanical Properties of such alloys do not

change appreciably up to 250°C. ... Attempts to further improve the strength of crystalline Al alloys by various techniques such as rapid solidification followed by compaction and extrusion, powder sintering and reinforcement resulted in achieving the maximum strength of about 700 to 800 MPa. ...

Length of papers (sub-heading)

(Sub-headings are set in 12 point bold with an initial capital on the first word only and a line space above and below.) Papers should be written simply and concisely and should be in general 8 printed pages including tables and diagrams in place. Note that all technical papers should be written in the third person.

Font (sub-sub-heading)

(Sub-sub-headings are 12 point *italics*.) These instructions have been produced using 12 point Arial Narrow. All headings, sub-headings and sub-sub-headings should be produced using 12 point.

Single

Single (one) line spacing should be used except when typing mathematical text with sub- and superscripts.

Headings

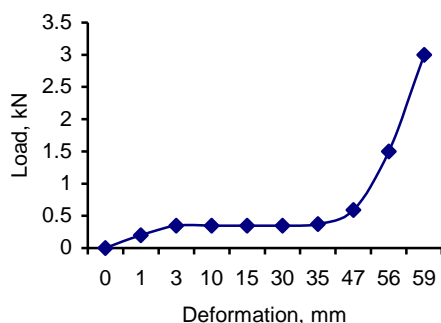
Some flexibility of presentation will be allowed but authors are urged to arrange the subject matter clearly under such headings as: Abstract, Notation, Introduction, Equipment, Experimental Procedure, Theory, Results, Discussion, Conclusion, etc., with mathematical derivations and the like presented as Appendices. A full length paper should have a short introduction. This should state the reasons for the work, with brief reference to previous work on the subject.

FIGURES AND TABLES

Figures

All line-work figures should be placed in their correct positions in the text and should be of as high quality as possible. They should appear near the location they are referenced the first time in the text. If line work or photograph has to be in two column width, such figures should appear at the top or bottom of the page on which they are referenced wherever possible and be numbered with Arabic numerals as shown in Figure 1.

Figure 1. Load - Compression Curve of 53 mm diameter and 66 mm high PUF cylinder



Tables

All tables are to be numbered with Arabic numerals and should have headings which make their general meaning understandable without reference to the text as shown in Table 1. Their layout should be consistent throughout. If a table is wider than a

column, it can be placed in the width of the page and appear near the top or the bottom of the page. If any table is long and cannot fit on one page, the table number and heading should be repeated on the next page before the table is continued. The units in which the results are expressed should be given at the top of each column and not repeated on each line of the table. Footnotes should be indicated by the use of lower case letters (a, b, c, etc.), as superscripts without parentheses.

Table 3. Average stress values of PUF of different sizes and densities under axial compression

Dimensions of PUF cylinders, mm		Density ρ_f , kg m ⁻³	Average stress value, σ_f , MN m ⁻²	
Diameter, D_f	Height, H_f		Experimental	Model 1
52.5	52.5	0.0388	0.186	0.228
53	66	0.0385	0.178	0.226
51	38	0.0402	0.201	0.241

Photographs

All photographs, whether coloured or black and white, should be of high quality. Like figures and tables, photographed should also be placed in the text closer to the text they are referenced first time. The minimum number of photographs considered necessary should be included in the paper.

EQUATIONS

Equations should be centered and numbered consecutively. Place the numbers in parentheses flush with the right hand margin of the column and level with the last line of the equation.

$$E_b = 4\pi RM\theta \quad (1)$$

Units

The SI system of units should be employed, but papers will be accepted in the English system, provided that values are followed by equivalent SI values in parentheses.

REFERENCES

References should be set in 10 point to the following style and numbered serially as per their first citation in the body of the paper.

Journal Article – s. no., authors, (year), title, *name of the Journal*, **volume**, number, pages

1. Gupta, N.K., Velmurugan, R. and Gupta, S.K. (1997), An analysis of axial crushing of composite tubes, *Journal of Composite Materials*, **31**, 13, 1262-1286.

Technical Report – s. no., authors, year, title, *report no.*, publisher

2. Cundall, P.A. and Strack, O.D.L. (1979), The discrete element method as a tool for research in granular media, *Tech. Report no. 79002*, Department of Civil and Mineral Engineering, University of Minnesota.

Edited monographs and proceedings – s. no., authors, year, title, in *title of the monograph*, (Ed./Eds.), editors, publisher, pages

3. Sekhon, G.S. (1993), Computer simulation of orthogonal machining with variable uncut chip thickness, in *Emerging trends in mechanical engineering*, (Eds.) Agarwal, R.S., Agrawal, D.P. and Deshmukh, S.G., Tata McGraw-Hill, New Delhi, 415-420.