

Call for Book Chapters/Research Papers for Edited Book

To be published with ISBN under IIP International publishers, USA and India

Design of Steel Structures as per I.S. 800:2007



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**Editors Book Series ID:
IIPER1676634299**



Iterative International Publishers
Novi, Michigan, USA
Chikkamagaluru, Karnataka, India

Imprint IIP

Registered publisher under Raja Rammohun Roy Agency,
Government of India and also under Bowker My
identifiers agency, USA

Important dates:

Chapter/paper submission starts on: 30/11/2023
Last date for chapter/paper submission: 29/02/2024
Acceptance notification: 15/03/2024
Last date for registration: 30/03/2024

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Call for Chapters

Design of Steel Structures as per I.S. 800:2007

Aims and Scope:

This book on “**Design of Steel Structures as per I.S.800: 2007**” provides the students, faculty members and researchers a quick reference guidance for designing steel structural elements, their connections and prediction of their behaviour. Further the book elaborates the perspective of the readers with well-furnished colour sketches including the isometric view of the sections used in design. The book sticks to Limit State Design Methodology of design using partial safety factors and considers the aspect of safety and serviceability. The support of IS 875 : 2015, parts (1 – 5) and the code SP 6(1) is opted for the loads and steel sectional properties. The lucid and versatile style of book provides the readers to understand the design principles and visualize the concepts of the steel structural design. The book further provides a comprehensive framework for engineers, architects, and designers to create safe and efficient steel structures in India, promoting standardized practices for the design of steel structures.

List of Topics :

1. Introduction to Steel Structures
2. Loads on Steel Structural Elements
3. Limit State Design
4. Design of Connections
5. Tension Members
6. Compression Members and Column Bases
7. Beams
8. Design of Girders (Plate Girders and Gantry Girders)
9. Beam Columns
10. Design of Eccentric and Moment Resistant Connections
11. Calculation of Wind Loads
12. Design of Industrial Steel Structures

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