

Design Manual For Designing Steel Structures According to New IS: 800

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Design Manual has been prepared by Structural Engineering of Indian Institute of Technology, Madras, Structural Engineering Research Centre, Chennai and Institute for Steel Development & Growth, Kolkata.



Handbook consists of 7 chapters and appendix which are as follows:

1. Standard Steel Sections-Dimension and Properties
2. Formula for Structural Analysis- Elastic and Plastic Analysis
3. Members under Tension
4. Compression Members-Design Strength
5. Members subjected to Bending
6. Design of Members subjected to combined compression and bending
7. Connections

Appendix: Design Tensile Strength, Design Compressive Strength, Design Bending and Shear strength, Beam column, Connections

Publication will serve as a **ready reckoner** to the structural Engineers/ Consultants using structural steel for designing in Limit State Method (LSM). Manual contains tables and examples showing the use of tables that facilitates ease of design of steel structural elements. Appendix covers worked out examples considering various conditions of loading and cases. These are presented to illustrate the steps of designs without any accompanying tables. This will assist a design Engineers in learning the stipulations of new IS:800 (IS:800-2007) as well as checking design calculations as per the said code.

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