



Practical Design of Steel Structures

By Karuna Moy Ghosh



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Practical Design of Steel Structures presents practical design examples and calculations for a multi-bay, steel-framed industrial building under the actions of a variety of loads, including travelling crane loads, dead and imposed loads, and wind forces. For the first time, engineers and students alike can appreciate the complete design process through the analysis of the whole structure and the design of structural members. The calculations are clearly presented, employing a step-by-step approach stating the design philosophy, design considerations and clarifying the referred clauses of the code of practice.

However, before analysing the structure and the design of its structural elements, it is necessary to understand the theoretical background and how the structure behaves under the actions of various loads, based upon practical design and field experience. The author considers the structural arrangement with respect to selection and availability of construction material, the cost within the scheduled construction program and the overall budget. In addition he examines the buildability of the structure with regard to space restriction, method of construction and the geotechnical conditions of the site.

The essence of this book is the simplicity and clarity of approach in the complete analysis of the whole structure and the structural design of every member. Augmented by design sketches, this book will prove valuable to practising engineers in design offices and students on structures courses.

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Practical Design of Steel Structures By Karuna Moy Ghosh Bibliography

- Sales Rank: #5789452 in Books
- Published on: 2010-07-26
- Original language: English
- Number of items: 1
- Dimensions: .0" h x .0" w x .0" l, .0 pounds
- Binding: Paperback
- 224 pages

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Editorial Review

Review

'It is aimed at the first time engineers and engineering students who can appreciate the complete design process through the analysis of the whole structure and the design of structural members. ...will prove to be valuable for practising engineers in design offices, and students on engineering structural courses. ...it will be a valuable asset.' Building Engineer '...certainly would help with understanding the amount of detail that is required to do design calculations to comply with Eurocode... ...covers the basic principles with a written introduction to the relevant item. ...descriptions are enlightening... The understanding and use of the Eurocode wind load requirements is very well explained and laid out. ...this would be a valuable text for any designer...' Civil Engineering, South Africa

About the Author

Karuna Moy Ghosh; CEng, FStructE, formerly Chief Structural Engineer, Kaiser Engineers, Inc. UK

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