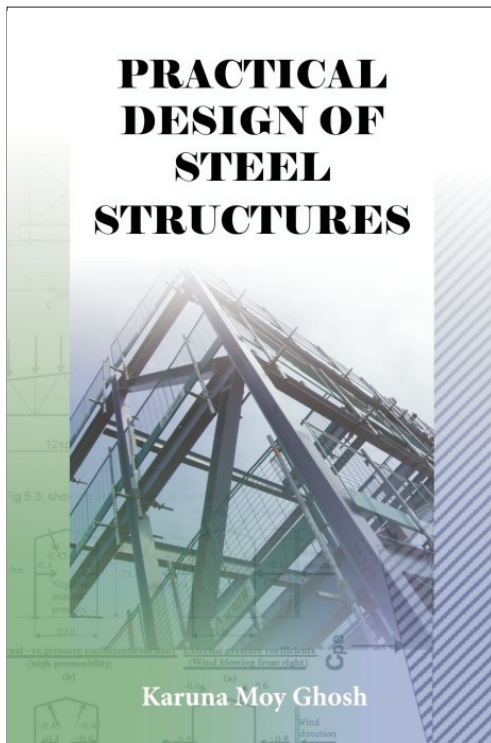


# PRESS RELEASE

A practical new text, in full compliance with EC3

## Practical Design of Steel Structures



**Karuna Moy Ghosh**, CEng, FIStructE, formerly Chief Structural Engineer, Kaiser Engineers, Inc. UK

- ⇒ **Rigorous analysis of a complete structure**
- ⇒ **Complete compliance with EC3**
- ⇒ **Full examination of all conditions necessary prior to analysis**

*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 (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, all in compliance with Eurocode (EC)3. The calculations

are presented in a simple and lucid way, 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 programme 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.

**Contents:** General principles and practices. Structural analysis and design. Design of gantry girder (members subjected to bi-axial bending). Design of welded and bolted connections. Purlins and side rails, roof trusses, roof girders, intermediate columns and horizontal roof bracings. Case study I: Analysis and design of structure of melting shop. Case study II: Design of gable end framing system along row. Case study III: Design of vertical bracing system for wind and crane tractive forces stanchion lines A and B. Appendix

**Readership:** This will be of particular interest to practitioners in design for steel structures and students in civil and structural engineering.

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**About the author:** Mr. Ghosh has over 40 years experience in design offices and on overseas projects in countries such as India, Italy, Austria and Jordan, etc. He has been involved in projects such as the Channel Tunnel, Limehouse Link Tunnel and Heathrow Express Tunnel Link and is also the author of two other books on practical design.

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T: +44(0)1593-731 333; F: +44(0)1593-731 400; E: [info@whittlespublishing.com](mailto:info@whittlespublishing.com)  
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