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Structural Design: A Practical Guide for Architects

By James R. Underwood, Michele Chiuini



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Written for the practicing architect, *Structural Design* addresses the process on both a conceptual and a mathematical level. Most importantly, it helps architects work with structural consultants and understand all the necessary considerations when designing structural systems. Using a minimum of simple math, this book shows you how to make correct design calculations for structures made from steel, wood, concrete, and masonry. What's more, this edition has been completely updated to reflect the latest design methods and codes, including LRFD for steel design. The book was also re-designed for easy navigation. Essential principles, as well as structural solutions, are visually reinforced with hundreds of drawings, photographs, and other illustrations--making this book truly architect-friendly.



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Bibliography

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Editorial Review

From the Publisher

A user-friendly reference on the design and technology of building structures. The authors provide a holistic approach to structural design by covering all of the primary structural materials (steel, wood, reinforced concrete, and masonry) and combining architectural form, spatial organization, and load configurations.

From the Back Cover

The classic guide, now including the International Building Code

Approaching structural design from the viewpoint of a practicing architect, *Structural Design*, Second Edition is a comprehensive guide to the conceptual and practical underpinnings of basic building design and technology. It addresses structures on both a conceptual and numerical level, providing essential coverage of the integral relationships of structural/architectural form and spatial organization, and an understanding of the impact of load configurations and other key determinants of design. Basic principles, as well as structural solutions, are visually reinforced with numerous architectural drawings, photographs, and other illustrations, making this book truly architect-friendly.

In light of the adoption of the International Building Code® (IBC) in the United States and the spreading use of LRFD for steel design, as well as other developments in design methods and codes, this Second Edition has been significantly revised and improved to provide you with the most up-to-date coverage. This new edition features:

- A thorough redesign for easy reading and navigability
- Coverage of all of the primary structural materials (steel, wood, reinforced concrete, and masonry) in one volume
- Approximately 700 illustrations, including black-and-white photos, architectural and technical drawings, line diagrams, and freehand sketches
- Information on new materials or combinations of materials, composites, and stressed-skin
- Real-world examples, sample problems, and useful references to aid understanding of the technical material—significantly enhanced with more thorough step-by-step descriptions
- Just enough mathematics (simple algebra, trigonometry, and solutions of some simple equations) to help the reader make the correct decisions for structures made from steel, wood, concrete, and masonry

About the Author

Rod Underwood, Professor of Architecture at Ball State University, Indiana, is a graduate of Purdue University in civil engineering and Ball State University in architecture. He has been a registered architect and registered Structural Engineer since 1971. His areas of expertise include structural design and architectural design.

Michele Chiuini is Professor of Architecture at Ball State University, Indiana, where he teaches structural design and architectural design. He is a registered Structural Engineer in Italy, and he has practiced in Italy, England, and the United States.

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