



Fundamentals of Building Construction: Materials and Methods

By Edward Allen, Joseph Iano

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Now in its Fourth Edition, Fundamentals of Building Construction is an essential textbook that has been used by thousands of students annually in schools of architecture, engineering, and construction technology. The best-selling reference focuses on the basic materials and methods used in building construction. Emphasizing common construction systems such as light wood frames, masonry bearing walls, steel frames, and reinforced concrete, the new edition includes new coverage of green design and energy-efficient construction energies, and is based on the International Building Code(r).

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Editorial Review

From the Back Cover

The new, updated edition of the leading book on building construction

This new edition of the bestselling reference, *Fundamentals of Building Construction: Materials and Methods* provides the complete, up-to-date coverage of building construction practices that thousands of professionals and students of architecture, engineering, and construction technology have been relying on for years. Using the new International Building Code® as its basis, this classic guidebook covers the complete range of construction activities, from excavating and foundations to cladding and interior finishes. It's organized around a detailed treatment of the structural systems most widely used in North America: heavy timber, wood light frame, masonry, steel, light gauge steel, and reinforced and precast concrete.

New features of this Fourth Edition include:

- Detailed consideration throughout the book of issues of sustainability and "green" building
- A set of illustrated essays, "From Concept to Reality," that demonstrate how technical decisions are made in real-world building projects
- References to key Web sites for the latest construction information
- Dozens of new photorealistic drawings, photographs, and drawings
- A companion Web site that includes learning resources complementing the book

Fundamentals of Building Construction, Fourth Edition makes available to students and professionals an array of construction information that is unprecedented in scope and quality.

About the Author

EDWARD ALLEN has taught for more than thirty years as a faculty member at the Massachusetts Institute of Technology and Yale University, and as an invited guest at institutions in the U.S., South America, Europe, and Asia. He is a Fellow of the American Institute of Architects. He has designed more than fifty constructed buildings and is the bestselling author of *The Architect's Studio Companion*, *Architectural Detailing*, *Fundamentals of Residential Construction*, and *Shaping Structures: Statics*, all published by Wiley.

JOSEPH IANO has been Edward Allen's illustrator, collaborator, and coauthor for more than twenty years. He is a registered architect whose experience includes professional practice, teaching design and technology in numerous schools of architecture, and work in the construction trades. Currently he heads a Seattle firm that provides technical consulting to architects and others in the design and construction industry.

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