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Fundamentals of Building Construction: Materials and Methods, 5th Edition

By Edward Allen, Joseph Iano



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Now in its Fifth Edition, this essential textbook has been used by thousands of students annually in schools of architecture, engineering, and construction technology. The bestselling 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. New introductory material on the processes, organization, constraints, and choices in construction offers a better look at the management of construction. New sections covering the building envelope uncover the secrets to designing enclosures for thermal insulation, vapor retarders, air barriers, and moisture control. The Fifth Edition also features more axonometric detail drawings and revised photographs for a thoroughly illustrated approach and the latest IBC 2006, CSI MasterFormat, ASTM references, and LEED information.



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Editorial Review

Review

"In the new fifth edition of *Fundamentals of Building Construction*, Allen and Iano set a new benchmark by incorporating sustainability issues into a mainstream construction textbook, section by section, as in this concise overview from the first chapter. We also look forward to a future edition of their outstanding book in which appropriate sustainability considerations have penetrated every topic and page." (*ArchitectureWeek*, April 13, 2009)

From the Back Cover

The leading book on building construction——thoroughly renovated from the ground up

For the nuts-and-bolts on building construction practices and materials, thousands of professionals and students of architecture, engineering, and construction technology have turned to Edward Allen and Joseph Iano's *Fundamentals of Building Construction*. This new *Fifth Edition* of the bestselling reference and textbook provides the most up-to-date survey of the basic materials and methods used in building construction.

Using the latest building codes, standards, and developments in materials and technologies as its basis, this book covers the complete range of construction activities—from excavating and foundations to cladding and interior finishes—and examines common construction systems such as light wood frame, masonry bearing wall, steel frame, and reinforced concrete construction.

The Fifth Edition adds a host of updated and completely new information on such current topics as:

- The changing role of the construction contractor in the process of making buildings
- Construction management and methods of project delivery
- Controlling the movement of heat, air, and moisture through the building enclosure
- Sustainability and green building techniques
- Innovations in glass, concrete, wood, and other construction materials
- The 2006 International Building and Residential Codes, 2004 MasterFormat, and the latest ASTM references and LEED standards

Supplemented by *Exercises in Building Construction, Fifth Edition*, available separately, *Fundamentals of Building Construction, Fifth Edition* lays the foundation every architect and construction professional needs to build a successful career.

About the Author

Edward Allen, FAIA, has taught for more than thirty-five years as a faculty member at Yale University and the Massachusetts Institute of Technology, and as an invited guest at institutions in the United States, South America, Europe, and Asia. He has designed more than fifty constructed buildings and is the bestselling coauthor of *The Architect's Studio Companion*, *Architectural Detailing, Form and Forces*, and *Fundamentals of Residential Construction*, all published by Wiley.

Joseph Iano is an author, illustrator, and practicing architect who has taught design and technology in schools of architecture throughout the United States, as well as work in the construction trades. He has

collaborated with Edward Allen on numerous publications over a span of more than twenty-five years. Currently, he heads a Seattle firm that provides technical and quality management consulting to architects and others in the design and construction industry.

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