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Fundamentals Of Building Construction: Materials And Methods



Synopsis

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).

Book Information

Hardcover: 912 pages

Publisher: Wiley; 4 edition (December 25, 2003)

Language: English

ISBN-10: 0471219037

ISBN-13: 978-0471219033

Product Dimensions: 8.8 x 1.9 x 10.9 inches

Shipping Weight: 5 pounds

Average Customer Review: 4.7 out of 5 stars 113 customer reviews

Best Sellers Rank: #46,130 in Books (See Top 100 in Books) #22 in Books > Engineering & Transportation > Engineering > Reference > Architecture > Methods & Materials #41 in Books > Arts & Photography > Architecture > Buildings #65 in Books > Textbooks > Engineering > Civil Engineering

Customer Reviews

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.

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.

This is an excellent book. I am currently studying for the ARE in California. I borrowed the Second Edition from a coworker of mine for my first exam. That edition was full of good, accurate information. I am studying for another exam for the ARE and decided to purchase this book for myself. This edition is a couple hundred more pages than the second edition and is still just as good, if not better, than the second edition. My coworker purchased his book for a college course he took and still occasionally references that book through his work days. I tend to get most of my questions answered by looking up things in this book. Very good price for this book.

bought this book 6+ years ago for a class and never left a review...The hardcover book arrived in pristine condition and held up to countless study sessions. I recall that the content was very informative in establishing the foundations for which to build an understanding of basic construction principles. I ended up selling this book after I had finished the course, but wish I held onto it.

This book is required for my Building Construction classes (Architecture Major). The book itself is well written and is full of helpful drawings, details, diagrams, and photos. I opted to get the Kindle

version, the ability to search the book by keyword and reducing the size and weight of the book down to my tablet being the biggest reasons. I really liked it but it has had its shortcomings. First off, it has no page numbers. Many kindle books have page numbers that coincide with their hardcopies (it may read Location 500 Page 60, Location 501 Page 60, Location 502 Page 61, etc) I can't see why it wouldn't be done here other than the fact that there are a lot of pages. Still, with the amount I am charged to buy the book I should expect these things. Next, there are periodic mistakes in the book. Some are simple like sentences with no spaces in them but other are more severe. For example in Chapter 14, Location 13563 Figures 14.43 and 14.44 the images for each Figure are exactly the same. 14.43 is supposed to show One-way sitecast concrete framing systems but instead it shows a copy of the two-way. Mistakes like these are unacceptable in a book like this. Lastly, there is on average one image for every two chapters that is "not available in this digital edition". I can understand that the copyright holders of some images may not want them available on a digital format but if that is the case why not come up with a substitute. Especially because, to my memory, all of the missing images I've seen are photographs of existing buildings (for example the end of Chapter 12 Location 11885 the photo of the sciences center at Dartmouth). Omitting the image shouldn't be the answer. The book is otherwise a fantastic book and over the 6 months I've owned it I have been able to use it as a reference even outside my BC classes.

great condition thank you

Lesson based. It has background information to most of the topics and it also goes into detail to every single thing. It also has really good visuals. Really lengthy but it is all really useful information.

This book is a must for every architect major or enthusiast. If you know nothing about building and materials; you'll learn quickly. It is well written with many pictures and steps on how to use materials.

Brilliant book good easy to read and understand and very practical I found it very useful

My step son is an architecture student at UO. His prof said this is a must have. He loves it.

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