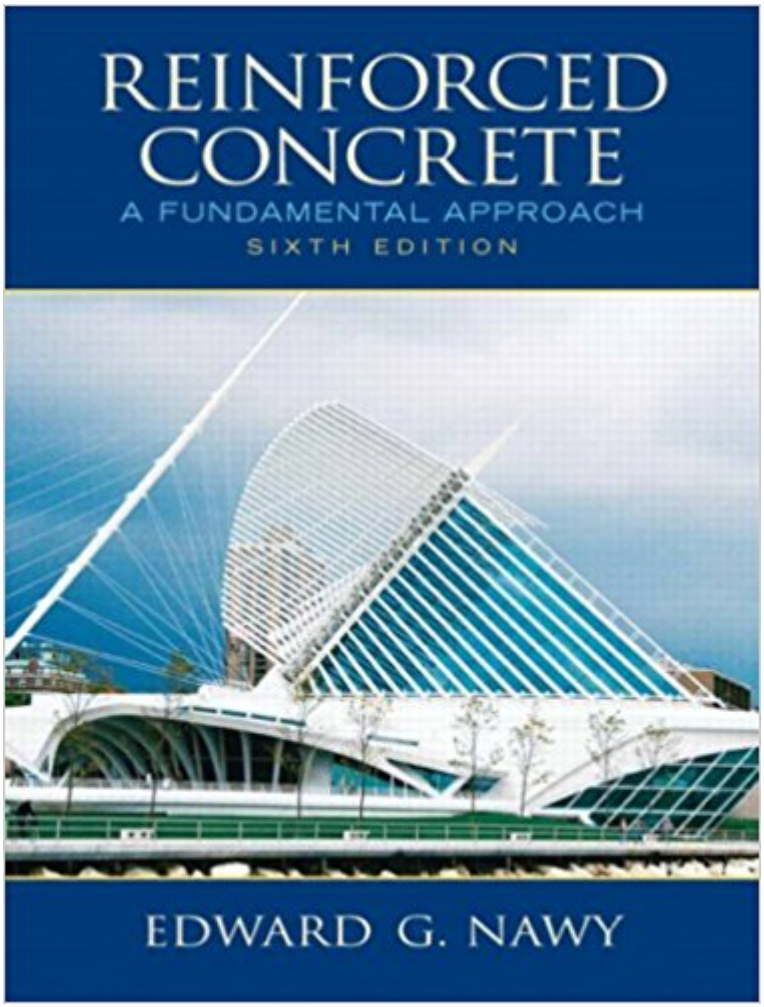
Reinforced Concrete: A Fundamental Approach (6th Edition)



Synopsis

Now reflecting the new 2008 ACI 318-08 Code and the new International Building Code (IBC-2006), this cutting-edge text has been extensively revised to presentÂ state-of-the-art developments in reinforced concrete. The text analyzes the design of reinforced concrete members through a unique and practical step-by-step trial and adjustment procedure. It is supplemented with flowcharts that guide readers logically through key features and underlying theory. Hundreds of photos of tests to failure of concrete elements help readers visualize this behavior. Ideal for practicing engineers who need to contend with the new revisions of the ACI, IBC, and AASHTO Codes.

Book Information

Hardcover: 936 pages

Publisher: Pearson; 6 edition (May 31, 2008)

Language: English

ISBN-10: 0132417030

ISBN-13: 978-0132417037

Product Dimensions: 8.4 x 1.5 x 10.1 inches

Shipping Weight: 3.9 pounds (View shipping rates and policies)

Average Customer Review: 3.6 out of 5 stars 30 customer reviews

Best Sellers Rank: #104,304 in Books (See Top 100 in Books) #8 inÂ Books > Engineering & Transportation > Engineering > Materials & Material Science > Concrete #55 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #107 inÂ Books > Textbooks > Engineering > Civil Engineering

Customer Reviews

Extensively revised to reflect the new ACI 318 Building Code, this cutting-edge text analyzes the design of reinforced concrete members through a unique and practical step-by-step trial and adjustment procedure. Supplementing text material with flow charts to logically guide students through the learning process, the book decreases the necessity of actual laboratory testing by offering ample photographs of instructional testing of concrete members. This illustrates the failure of various types of structural members as well as demonstrates how the designed member behaves at ultimate load. --This text refers to an alternate Hardcover edition.

Reinforced Concrete: A Fundamental Approach Edition: Sixth Author(s): Edward G. Nawy

ISBN-13 : 978-0-13-241703-7 ISBN-10: 0-13-241703-0 Â This new edition of Edward G.

Nawyâ ™s highly acclaimed work reflects the very latest ACI-318-08 Building Code and includes these major changes and additions: Â Ã—Â Â Â Â Â Â Â Â All design examples conform to the Strain Limits Design Method, using the applicable load factors and strength reduction factors. Ã—Â Â Â Â Â Â Â An updated chapter on seismic design of buildings to comply with the major changes in the ACI 318 Code, and the new International Building Code provisions (IBC 2006) on seismic design. The chapter includes several design examples on confinement, frames, and shear walls. Ã—Â Â Â Â Â Â Â A chapter on LRFD design of bridge deck structures in accordance with AASHTO 2004, revamped to reflect the changes in torsional and shear strain equations. Ã—Â Â Â Â Â Â Â A new comprehensive chapter on Strength Design of Masonry Structures, conforming to the latest 2007 Masonry Code. Ã—Â Â Â Â Â Â Â An expanded section with examples on the strut-and-tie modeling for the design of deep concrete beams and corbels, with extensive design examples using the ACI 318-08 appendix provisions for this method. Ã—Â Â Â Â Â Â Â Chapter 9 on compression members was totally revamped to reflect the ACI 318-08 approach. Ã—Â Â Â Â Â Â Â A comprehensive chapter on concrete materials and design of concrete mixtures for normal-strength and high-strength concretes, as well as provisions for environmental structures and a new section with extensive tables on concrete durability. Â A self-contained textbook, Reinforced Concrete, Sixth Edition can be used for a one-semester undergraduate level course and a one-semester graduate level course in reinforced concrete in standard civil engineering programs. It is equally useful for the practicing engineer. It is the only book that closely and systematically uses and follows procedures in numerous flowcharts within each chapter that simplify the understanding and application of the subject in design. Â This edition provides thorough coverage of short- and long-term material behavior, design of concrete mixtures, reliability and structural safety, serviceability behavior of beams and two-way slabs and plates, torsion and shear, design of two-way structural slab and plate systems, continuity in concrete structures, seismic design of high-rise buildings in high-intensity earthquake zones, LRFD design of bridge structures, and the design of masonry structures. Â Comprehensive sketches and sets of working drawings, end-of-chapter problems, pictures of actual structural tests to failure, and flowcharts appear throughout the book. The book also includes an extended appendix of nomograms and tables. Â Â Â Â

I learned about this book from one of the higher-up people at my company. Though I have not read through most of it, there is one concept in particular that was the reason for me buying this book. The ACI code states that for the design of deep reinforced concrete beams, two methods are

allowed: 1.) Strut and Tie modeling (found in Appendix A of the ACI and most modern RC textbooks) and 2.) Nonlinear Distribution of Strain (stated as an acceptable method but gives no information as to how to perform said analysis).Like all methods, this nonlinear strain analysis has limitations but is not discussed in any modern RC textbook that I've seen. Nawy's book (at least the 1st and 2nd editions) however, does give information about performing this type of analysis. The inexpensive cost of this book is more than worth it for having this additional information at your disposal (in particular for concrete lintel design).

This book is decent. There are a lot of practice problems and back of the chapter problems that are wrong in their solution and the author can not write in english correctly sometimes. It also has questions for you to answer that it does not teach in the book. However, this book is better, as in more comprehensive than most concrete books.

The layout/organization was not entirely intuitive. The examples were/are insufficient and too few. The book tends to "formula drop" tons. There are tons of empirically derived formulas for concrete--hidden in the 50+ formulas per chapter are two you have to know. They have no more emphasis than any of the other formulas.

This book was really helpful for it's problem solving examples. I liked the step-by-step flowcharts.

This was the text book for two of my concrete class. It's not too bad for a text book.

IT IS ONE OF THE BEST TEXT BOOK for structural Engineering Student, It is really helpful text book. Therefore, It is good idea if sturactural Engineering student use this great book!!

Nice textbook. Not thick or heavy but still has a nice cover to make it feel sturdy.The content of the book is very well put together. It is not hard to conceptualize what the authors are getting at. The illustrations are also very clear and colorful. The text size is also a comfortable size to read. Problems ranged in difficulty and were creative.Overall good textbook by a great author!

The book is in good shape.It was the US Edition and not international. It shipped more quickly than expected. Would definitely buy books for future classes.

Reinforced Concrete: A Fundamental Approach (6th Edition) Textile Reinforced Concrete (Modern Concrete Technology) Reinforced Concrete: Mechanics and Design (6th Edition) Reinforced Concrete Design (6th Edition) Diseno y calculo de estructuras de concreto reforzado/ Design and calculation of reinforced concrete structures: Por Resistencia Maxima Y Servicio/ for Maximum Strength and Service (Spanish Edition) Reinforced Concrete: Mechanics and Design (7th Edition) Reinforced Concrete Design (5th Edition) Reinforced Concrete Design (8th Edition) Design of Reinforced Concrete, 10th Edition Reinforced Concrete Design (7th Edition) Reinforced Concrete Structures: Analysis and Design, Second Edition (P/L Custom Scoring Survey) Structural Elements for Architects and Builders: Design of Columns, Beams, and Tension Elements in Wood, Steel, and Reinforced Concrete, 2nd Edition Reinforced Concrete: Mechanics and Design (5th Edition) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) Design of Reinforced Concrete Reinforced Concrete Design Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering) Seismic Design of Reinforced Concrete and Masonry Buildings DESIGN OF REINFORCED CONCRETE STRUCTURES Reinforced Concrete: Mechanics and Design