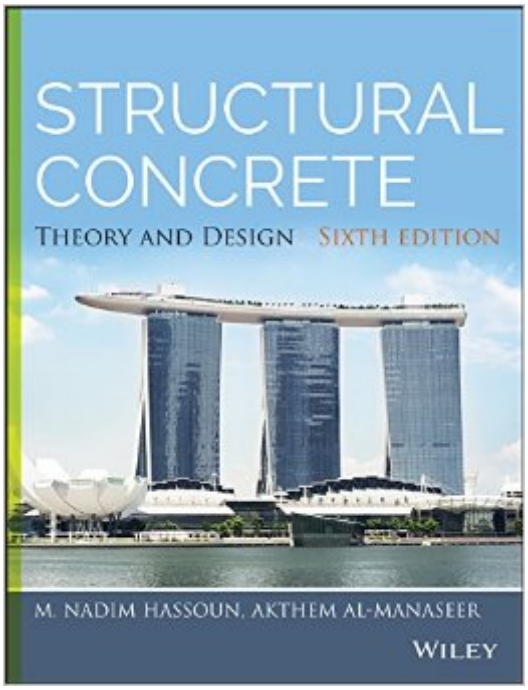
Structural Concrete: Theory And Design



Synopsis

The most up to date structural concrete text, with the latest ACI revisions Structural Concrete is the bestselling text on concrete structural design and analysis, providing the latest information and clear explanation in an easy to understand style. Newly updated to reflect the latest ACI 318-14 code, this sixth edition emphasizes a conceptual understanding of the subject, and builds the student's body of knowledge by presenting design methods alongside relevant standards and code. Numerous examples and practice problems help readers grasp the real-world application of the industry's best practices, with explanations and insight on the extensive ACI revision. Each chapter features examples using SI units and US-SI conversion factors, and SI unit design tables are included for reference. Exceptional weather-resistance and stability make concrete a preferred construction material for most parts of the world. For civil and structural engineering applications, rebar and steel beams are generally added during casting to provide additional support. Pre-cast concrete is becoming increasingly common, allowing better quality control, the use of special admixtures, and the production of innovative shapes that would be too complex to construct on site. This book provides complete guidance toward all aspects of reinforced concrete design, including the ACI revisions that address these new practices. Review the properties of reinforced concrete, with models for shrink and creep Understand shear, diagonal tension, axial loading, and torsion Learn planning considerations for reinforced beams and strut and tie Design retaining walls, footings, slender columns, stairs, and more The American Concrete Institute updates structural concrete code approximately every three years, and it's critical that students learn the most recent standards and best practices. Structural Concrete provides the most up to date information, with intuitive explanation and detailed guidance.

Book Information

Hardcover: 1072 pages
Publisher: Wiley; 6 edition (March 30, 2015)
Language: English
ISBN-10: 1118767810
ISBN-13: 978-1118767818
Product Dimensions: 7.9 x 1.5 x 9.6 inches
Shipping Weight: 4 pounds (View shipping rates and policies)
Average Customer Review: 3.0 out of 5 starsÂ Â See all reviewsÂ (7 customer reviews)
Best Sellers Rank: #410,411 in Books (See Top 100 in Books) #42 inÂ Books > Engineering &

Transportation > Engineering > Materials & Material Science > Concrete #175 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #331 inÂ Books > Textbooks > Engineering > Civil Engineering

Customer Reviews

The biggest thing I despise about this text is the quality of paper and binding. You can slowly flip the page, as careful as possible, and still have the page pull away from the binding. It is poorly made. According to the professor, previous editions have been an excellent resource. It seems ok as a resource. It explains procedure and necessary theory okay. Many spelling, charts, and error calculations can be found throughout text.

This is not a good book. It is inundated with grammatical errors and calculation errors. The design procedures are not up-to-date. The language used makes me think there ought to be a minimum proficiency in the English language to qualify as an author of a textbook. Apparently that's not the case here.

all book pages for this book are really weak, they are tearing apart as i open the book. please address his issue when i return the book

Explains procedure and necessary theory very clearly. Some spelling and error calculations can be found throughout text.

Structural Concrete: Theory and Design Principles of Structural Design: Wood, Steel, and Concrete, Second Edition 2012 IBC Structural/Seismic Design Manual Volume 3: Examples for Concrete Buildings Black & Decker The Complete Guide to Concrete & Masonry, 4th Edition: Build with Concrete, Brick, Block & Natural Stone (Black & Decker Complete Guide) Corrosive Signs: Essays on Experimental Poetry (Visual, Concrete, Alternative) (Visual, Concrete, Alternative) Concrete Mix Design (Mix Design Methods Book 1) Structural Stability of Steel: Concepts and Applications for Structural Engineers Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound] The Techniques of Modern Structural Geology, Volume 3: Applications of Continuum Mechanics in Structural Geology SEAOC Structural/Seismic Design Manual 2009 IBC Vol 2:

Building Design Examples for Light-Frame, Tilt-up and Masonry Feng Shui: Wellness and Peace-Interior Design, Home Decorating and Home Design (peace, home design, feng shui, home, design, home decor, prosperity) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) Techniques of Staircase Construction: Technical and Design Instructions for Stairs Made of Wood, Steel, Concrete, and Natural Stone Design Ideas for Decorative Concrete and Stone Tall Building Design: Steel, Concrete, and Composite Systems Seismic Design of Reinforced Concrete and Masonry Buildings Seismic Design of Reinforced and Precast Concrete Buildings Seismic Design Aids for Nonlinear Pushover Analysis of Reinforced Concrete and Steel Bridges (Advances in Earthquake Engineering) Reinforced Concrete: Mechanics and Design (6th Edition)