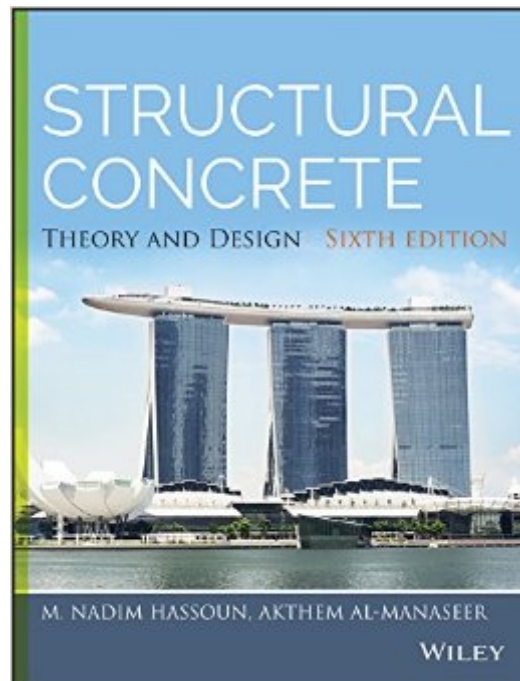




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Structural Concrete: Theory And Design



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

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Customer Reviews

THE BESTSELLING STRUCTURAL CONCRETE TEXT, UPDATED WITH EXTENSIVE ACI REVISIONS Structural Concrete, Sixth Edition provides complete guidance for the design and analysis of reinforced and prestressed concrete structures. This update emphasizes a conceptual understanding of the subject, and builds the student's body of knowledge by presenting design methods alongside relevant standards and codes, including coverage of recent ACI revisions. Numerous examples help readers grasp the real-world application of the industry's best practices, with SI units, problems and step-by-step design procedures. The authors' decades of experience in industry and academia provide a strong foundation for learning, while the clear explanations guide students through vital information including: The latest ACI 318-14 revisions that address the new ways concrete structures are designed, built, and used The physical properties of reinforced concrete, with the latest models for shrinkage and creep predictions Special chapter on system design of reinforced concrete building structures Critical mechanical engineering concepts such as shear, diagonal tension, axial loading, and torsion Design considerations for reinforced concrete beams using ACI and AASHTO strut and tie methods Specific approaches to the design of retaining walls, footings, slender columns, stairs, and more Seismic design and analysis of concrete structures utilizing latest ASCE and IBC codes Prestressed concrete bridge design according to AASHTO specifications Structural Concrete, Sixth Edition arms students with the tools, understanding, and confidence they need to design safe and reliable concrete structures.

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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.

Some parts are ok. But a lot of examples don't even put the equation, so you're left wasting tons of time figuring out how they got the numbers they're using. If you want to find the pages where they pull the equations to the example from -- hope you have a good time -- the pages literally rip and fall out from gentle/minimal use.

I have this book in third, and sixth edition. Booth have mistakes. I feel disapoint.

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

The book was in OK condition with some pages hanging on by a thread.

Good book

The book was perfect even though it was used.

excellent

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