



Structural Concrete: Theory and Design

By M. Nadim Hassoun, Akthem Al-Manaseer



Download



Read Online



Get Print Book

Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer

The popular, easily accessible guide to the design of reinforced concrete structures—now updated and revised

Structural Concrete, Fifth Edition provides complete guidance to the analysis and design of reinforced and prestressed concrete structures. This new edition brings all material up to date while maintaining the book's practical, logical, easy-to-follow approach. Coverage includes the latest ACI 318 - 11 code rules, emphasizing the code's strength approach and strain limits. Additional codes, standards, and specifications, as well as material properties and specific loads and safety provisions are also examined in detail.

Drawing on decades of experience in industry and academia, the authors include numerous SI unit examples and design tables along with step-by-step instructions on how to analyze and design for each type of structural member. They clearly explain all key concepts one should know before tackling design formulas, and supplement the discussion with helpful end-of-chapter summaries, references, and problems. New and updated material in this edition includes:

- The application of shear design to beams with variable length in actual structure
- The design of deep beams employing ACI and AASHTO strut-and-tie approach
- The design of stepped-type reinforced concrete stairs, not covered anywhere else
- Seismic design and analysis utilizing the IBC 2012 and ASCE 7-10 code
- The design of curved beams subject to flexure, shear, and torsion
- Prestressed concrete bridge design according to AASHTO specifications
- Examples for predicting shrinkage and creep of concrete in both U.S. and SI units

Structural Concrete, Fifth Edition arms civil and structural engineers with a complete set of tools for designing concrete structures with confidence. It is also an excellent resource for students of civil engineering.



[Download Structural Concrete: Theory and Design ...pdf](#)



[Read Online Structural Concrete: Theory and Design ...pdf](#)

Structural Concrete: Theory and Design

By M. Nadim Hassoun, Akthem Al-Manaseer

Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer

The popular, easily accessible guide to the design of reinforced concrete structures—now updated and revised

Structural Concrete, Fifth Edition provides complete guidance to the analysis and design of reinforced and prestressed concrete structures. This new edition brings all material up to date while maintaining the book's practical, logical, easy-to-follow approach. Coverage includes the latest ACI 318 - 11 code rules, emphasizing the code's strength approach and strain limits. Additional codes, standards, and specifications, as well as material properties and specific loads and safety provisions are also examined in detail.

Drawing on decades of experience in industry and academia, the authors include numerous SI unit examples and design tables along with step-by-step instructions on how to analyze and design for each type of structural member. They clearly explain all key concepts one should know before tackling design formulas, and supplement the discussion with helpful end-of-chapter summaries, references, and problems. New and updated material in this edition includes:

- The application of shear design to beams with variable length in actual structure
- The design of deep beams employing ACI and AASHTO strut-and-tie approach
- The design of stepped-type reinforced concrete stairs, not covered anywhere else
- Seismic design and analysis utilizing the IBC 2012 and ASCE 7-10 code
- The design of curved beams subject to flexure, shear, and torsion
- Prestressed concrete bridge design according to AASHTO specifications
- Examples for predicting shrinkage and creep of concrete in both U.S. and SI units

Structural Concrete, Fifth Edition arms civil and structural engineers with a complete set of tools for designing concrete structures with confidence. It is also an excellent resource for students of civil engineering.

Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer Bibliography

- Sales Rank: #1178517 in Books
- Published on: 2012-05-01
- Original language: English
- Number of items: 1
- Dimensions: 9.52" h x 1.65" w x 7.74" l, 3.74 pounds
- Binding: Hardcover
- 1032 pages

 [Download Structural Concrete: Theory and Design ...pdf](#)

 [Read Online Structural Concrete: Theory and Design ...pdf](#)

Editorial Review

Users Review

From reader reviews:

Isaias McGee:

This book untitled Structural Concrete: Theory and Design to be one of several books in which best seller in this year, that is because when you read this book you can get a lot of benefit onto it. You will easily to buy this specific book in the book retailer or you can order it by means of online. The publisher in this book sells the e-book too. It makes you easier to read this book, since you can read this book in your Cell phone. So there is no reason to your account to past this e-book from your list.

Grady Meraz:

Reading a book to become new life style in this yr; every people loves to read a book. When you learn a book you can get a lot of benefit. When you read ebooks, you can improve your knowledge, because book has a lot of information upon it. The information that you will get depend on what kinds of book that you have read. If you wish to get information about your research, you can read education books, but if you act like you want to entertain yourself you can read a fiction books, this sort of us novel, comics, along with soon. The Structural Concrete: Theory and Design will give you a new experience in examining a book.

Ann Walsh:

On this era which is the greater person or who has ability to do something more are more important than other. Do you want to become among it? It is just simple method to have that. What you have to do is just spending your time not very much but quite enough to experience a look at some books. One of the books in the top listing in your reading list is definitely Structural Concrete: Theory and Design. This book that is qualified as The Hungry Hillside can get you closer in turning out to be precious person. By looking up and review this guide you can get many advantages.

Jean Gonzales:

Do you like reading a guide? Confuse to looking for your best book? Or your book seemed to be rare? Why so many concern for the book? But any kind of people feel that they enjoy for reading. Some people likes reading, not only science book but novel and Structural Concrete: Theory and Design or others sources were given expertise for you. After you know how the good a book, you feel would like to read more and more. Science publication was created for teacher or students especially. Those guides are helping them to include their knowledge. In other case, beside science reserve, any other book likes Structural Concrete: Theory and Design to make your spare time considerably more colorful. Many types of book like this one.

**Download and Read Online Structural Concrete: Theory and
Design By M. Nadim Hassoun, Akthem Al-Manaseer
#U910JQSXZV3**

Read Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer for online ebook

Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer books to read online.

Online Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer ebook PDF download

Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer Doc

Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer Mobipocket

Structural Concrete: Theory and Design By M. Nadim Hassoun, Akthem Al-Manaseer EPub