



Principles of Structural Design: Wood, Steel, and Concrete, Second Edition

By Ram S. Gupta

Download now

Read Online ➔

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition

By Ram S. Gupta

A structural design book with a code-connected focus, **Principles of Structural Design: Wood, Steel, and Concrete, Second Edition** introduces the principles and practices of structural design. This book covers the section properties, design values, reference tables, and other design aids required to accomplish complete structural designs in accordance with the codes.

What's New in This Edition:

- Reflects all the latest revised codes and standards
- The text material has been thoroughly reviewed and expanded, including a new chapter on concrete design
- Suitable for combined design coursework in wood, steel, and concrete
- Includes all essential material?the section properties, design values, reference tables, and other design aids required to accomplish complete structural designs according to the codes
- This book uses the LRFD basis of design for all structures

This updated edition has been expanded into 17 chapters and is divided into four parts. The first section of the book explains load and resistance factor design, and explores a unified approach to design. The second section covers wood design and specifically examines wood structures. It highlights sawn lumber, glued laminated timber, and structural composite/veneer lumber. The third section examines steel structures. It addresses the AISC 2010 revisions to the sectional properties of certain structural elements, as well as changes in the procedure to design the slip-critical connection. The final section includes a chapter on T beams and introduces doubly reinforced beams.

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition was designed to be used for joint coursework in wood, steel, and concrete design.

 [**Download** Principles of Structural Design: Wood, Steel, and ...pdf](#)

 [**Read Online** Principles of Structural Design: Wood, Steel, an ...pdf](#)

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition

By Ram S. Gupta

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta

A structural design book with a code-connected focus, **Principles of Structural Design: Wood, Steel, and Concrete, Second Edition** introduces the principles and practices of structural design. This book covers the section properties, design values, reference tables, and other design aids required to accomplish complete structural designs in accordance with the codes.

What's New in This Edition:

- Reflects all the latest revised codes and standards
- The text material has been thoroughly reviewed and expanded, including a new chapter on concrete design
- Suitable for combined design coursework in wood, steel, and concrete
- Includes all essential material?the section properties, design values, reference tables, and other design aids required to accomplish complete structural designs according to the codes
- This book uses the LRFD basis of design for all structures

This updated edition has been expanded into 17 chapters and is divided into four parts. The first section of the book explains load and resistance factor design, and explores a unified approach to design. The second section covers wood design and specifically examines wood structures. It highlights sawn lumber, glued laminated timber, and structural composite/veneer lumber. The third section examines steel structures. It addresses the AISC 2010 revisions to the sectional properties of certain structural elements, as well as changes in the procedure to design the slip-critical connection. The final section includes a chapter on T beams and introduces doubly reinforced beams.

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition was designed to be used for joint coursework in wood, steel, and concrete design.

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta
Bibliography

- Sales Rank: #1118267 in Books
- Published on: 2014-04-22
- Original language: English
- Number of items: 1
- Dimensions: 1.20" h x 7.00" w x 10.10" l, 2.30 pounds
- Binding: Hardcover

- 528 pages

 [Download Principles of Structural Design: Wood, Steel, and ...pdf](#)

 [Read Online Principles of Structural Design: Wood, Steel, an ...pdf](#)

Editorial Review

Review

"From design loads determination and building codes, to various design philosophies, to load distribution and load paths, the student is given a road-map for designing a structure that answers their common question of 'where do I begin?'... It is concise and focuses on applications rather than extensive theoretical background and current research..."

—Caesar Abi Shdid, Ph.D., P.E., Lebanese American University, Beirut, Lebanon

"...a valuable source that provides efficient and authoritative guidance for students learning the fundamentals of codes and standards in structural material design."

—Dr. Peggi L. Clouston, University of Massachusetts, Amherst, USA

"... a comprehensive book covering design criteria, computation of loads, and design of structural members and connections using steel, concrete, and wood. When tied with structural analysis and modeling tools, the book provides the reader with a path for understanding and designing structural systems."

—Prof. S. D. Rajan, Arizona State University, Phoenix, USA

About the Author

Ram S. Gupta earned a master's in engineering from the Indian Institute of Technology (IIT), Roorkee, India, and a PhD from Polytechnic University, New York. He is a registered professional engineer in Rhode Island and Massachusetts, and is currently working as a professor of engineering at Roger Williams University (RWU), Bristol, Rhode Island. Dr. Gupta is president of Delta Engineers Inc., a Rhode Island-based consulting company. Besides contributing to a very large number of research papers, Dr. Gupta has authored three books including **Principles of Structural Design: Wood, Steel, and Concrete** (Taylor & Francis Group, Boca Raton, FL, 2010).

Users Review

From reader reviews:

Aline Moran:

Book is to be different for every grade. Book for children till adult are different content. As it is known to us that book is very important normally. The book Principles of Structural Design: Wood, Steel, and Concrete, Second Edition ended up being making you to know about other expertise and of course you can take more information. It is extremely advantages for you. The publication Principles of Structural Design: Wood, Steel, and Concrete, Second Edition is not only giving you much more new information but also to be your friend when you sense bored. You can spend your own spend time to read your reserve. Try to make relationship using the book Principles of Structural Design: Wood, Steel, and Concrete, Second Edition. You never really feel lose out for everything if you read some books.

Martin Williams:

This Principles of Structural Design: Wood, Steel, and Concrete, Second Edition tend to be reliable for you who want to be a successful person, why. The reason why of this Principles of Structural Design: Wood, Steel, and Concrete, Second Edition can be one of several great books you must have is definitely giving you more than just simple looking at food but feed you with information that probably will shock your preceding knowledge. This book is handy, you can bring it everywhere and whenever your conditions in e-book and printed people. Beside that this Principles of Structural Design: Wood, Steel, and Concrete, Second Edition forcing you to have an enormous of experience like rich vocabulary, giving you trial of critical thinking that could it useful in your day task. So , let's have it appreciate reading.

Vickie Flores:

This book untitled Principles of Structural Design: Wood, Steel, and Concrete, Second Edition to be one of several books this best seller in this year, here is because when you read this e-book you can get a lot of benefit in it. You will easily to buy this book in the book shop or you can order it by means of online. The publisher of the book sells the e-book too. It makes you more readily to read this book, as you can read this book in your Smartphone. So there is no reason for your requirements to past this guide from your list.

Jeri McKeen:

The publication untitled Principles of Structural Design: Wood, Steel, and Concrete, Second Edition is the publication that recommended to you to read. You can see the quality of the e-book content that will be shown to anyone. The language that article author use to explained their ideas are easily to understand. The author was did a lot of study when write the book, to ensure the information that they share to your account is absolutely accurate. You also could possibly get the e-book of Principles of Structural Design: Wood, Steel, and Concrete, Second Edition from the publisher to make you much more enjoy free time.

Download and Read Online Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta

#N16ECWJ4BUF

Read Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta for online ebook

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta 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 Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta books to read online.

Online Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta ebook PDF download

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta Doc

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta Mobipocket

Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta EPub

N16ECWJ4BUF: Principles of Structural Design: Wood, Steel, and Concrete, Second Edition By Ram S. Gupta