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Reinforced Concrete Design: Solutions Manual (Schaum's Outline Series in Civil Engineering) Paperback – Import, April 1, 1997 by Leet (Author) 5.0 out of 5 stars 2 ratings

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Problem 2.56 – Repeat Prob. 2.27 using the spreadsheet for Chapter 2 Open the Chap. 2 spreadsheet, and select the Rectangular Beam Moment Strength Worksheet.

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The sixth edition of this comprehensive textbook provides the same philosophical approach that has gained wide acceptance since the first edition was published in 1965. The strength and behavior of concrete elements are treated with the primary objective of explaining and justifying the rules and formulas of the ACI Building Code. The treatment is incorporated into the chapters in such a way that the reader may study the concepts in a logical sequence in detail or merely accept a qualitative explanation and proceed directly to the design process using the ACI Code.

The new edition of Reinforced Concrete Design includes the latest technical advances, including the 1995 American Concrete Institute Building Code. Review questions and problem sets at the end of every chapter are identical to those your civil engineering undergraduates will encounter in practice.

Publisher Description

Revision of: Reinforced concrete design / George F. Limbrunner, Abi O. Aghayere. 7th ed. 2010.

For courses in reinforced concrete. A practitioner's guide to reinforced concrete design Reinforced Concrete Design integrates current building and material codes with realistic examples to give readers a practical understanding of this field and the work of its engineers. Using a step-by-step solution format, the text takes a fundamental, active-learning approach to analyzing the design, strength, and behavior of reinforced concrete members and simple reinforced concrete structural systems. Content throughout the 9th edition conforms to the latest version of ACI-318 Code. It expands discussion of several common design elements and practice issues, and includes more end-of-chapter problems reflecting real-world design projects.

With this bestselling book, readers will quickly gain a better understanding of the fundamentals of reinforced concrete design. The author presents a thorough introduction to the field, covering such areas as theories, ACI Code requirements, and the design of reinforced concrete beams, slabs, columns, footings, retaining walls, bearing walls, prestressed concrete sections, and framework. Numerous examples are also integrated throughout the chapters to help reinforce the principles that are discussed.

Encouraging creative uses of reinforced concrete, Principles of Reinforced Concrete Design draws a clear distinction between fundamentals and professional consensus. This text presents a mixture of fundamentals along with practical methods. It provides the fundamental concepts required for designing reinforced concrete (RC) structures, emphasizing principles based on mechanics, experience, and experimentation, while encouraging practitioners to consult their local building codes. The book presents design choices that fall in line with the boundaries defined by professional consensus (building codes), and provides reference material outlining the design criteria contained in building codes. It includes applications for both building and bridge structural design, and it is applicable worldwide, as it is not dependent upon any particular codes. Contains concise coverage that can be taught in one semester Underscores the fundamental principles of behavior Provides students with an understanding of the principles upon which codes are based Assists in navigating the labyrinth of ever-changing codes Fosters an inherent understanding of design The text also provides a brief history of reinforced concrete. While the initial attraction for using reinforced concrete in building construction has been attributed to its fire resistance, its increase in popularity was also due to the creativity of engineers who kept extending its limits of application. Along with height achievement, reinforced concrete gained momentum by providing convenience, plasticity, and low-cost economic appeal. Principles of Reinforced Concrete Design provides undergraduate students with the fundamentals of mechanics and direct observation, as well as the concepts required to design reinforced concrete (RC) structures, and applies to both building and bridge structural design.

Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318-11 code.

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