

Simplified Design Of Concrete Structures

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The updated version of this classic text explains the principles involved in the design of concrete

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structure buildings and summarizes the primary requirements of current building codes. Developed for self-study use as well as classroom instruction, this book requires little mathematical or engineering expertise. Example calculations are given for the practical design of contemporary structures.

The Sixth Edition of Harry Parker's well-known and widely used book brings you the latest in current codes, design standards and industry practices--all in one easy-to-use volume. New topics have been added to the discussions including concrete frames, tilt-up walls and structural masonry with concrete units. A completely new chapter features design examples of structural systems for three different types of buildings. The coverage and style retain the continuity and flow of the popular past editions, and new exercise problems and answers to both general questions and numerical exercises are provided for self-evaluation.

This book is the best and most concise reference available on the design of concrete structures. It covers new materials, practices, and research in the field, examples of general building structural systems and the use of computers in structural design. Covers the basics as well as practical design examples. Examines a wide range of concrete structures, building types, and construction details. Includes numerous illustrations, text examples, and exercise problems with answers provided, plus a general question and answer section and a glossary. Updated to reflect changes in standards, industry technology, and construction practice; conforms to the widely accepted ACI Code.

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This book is full of examples of what designers can do once they learn the basics. This book presents an overview of the structural design process for designers with limited backgrounds in engineering analysis and mathematics. Included is information on structural systems and materials, the development of the general form and basic elements of a specific system, and construction plans and details. Included are examples of eleven different structural systems, each with an explanation of the design and a sample set of construction plans and details.

Structural Concrete discusses the design and analysis of reinforced and prestressed concrete structural components and structures. Each of the eight chapters of the book tackles a specific area of concern in structural concrete. The text first deals with the serviceability and safety, and then proceeds to the properties of materials and mix designs. The next two chapters cover reinforced concrete beams and slabs. Chapter 5 discusses column and walls, while Chapter 6 tackles reinforced concrete frames and continuous beams and slabs. The next chapter discusses design structures, while the last chapter covers prestressed concrete. The text will be of great use to undergraduate students of civil and structural engineering. Professionals whose work involves concrete technology will also find the book useful.

This revised, fully updated second edition covers the analysis, design, and construction of reinforced concrete structures from a real-world perspective. It examines different reinforced concrete elements such as slabs, beams, columns, foundations, basement and retaining walls and pre-stressed concrete incorporating the most up-to-date edition of the American Concrete Institute Code (ACI 318-14)

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requirements for the design of concrete structures. It includes a chapter on metric system in reinforced concrete design and construction. A new chapter on the design of formworks has been added which is of great value to students in the construction engineering programs along with practicing engineers and architects. This second edition also includes a new appendix with color images illustrating various concrete construction practices, and well-designed buildings. The ACI 318-14 constitutes the most extensive reorganization of the code in the past 40 years. References to the various sections of the ACI 318-14 are provided throughout the book to facilitate its use by students and professionals. Aimed at architecture, building construction, and undergraduate engineering students, the scope of concepts in this volume emphasize simplified and practical methods in the analysis and design of reinforced concrete. This is distinct from advanced, graduate engineering texts, where treatment of the subject centers around the theoretical and mathematical aspects of design. As in the first edition, this book adopts a step-by-step approach to solving analysis and design problems in reinforced concrete. Using a highly graphical and interactive approach in its use of detailed images and self-experimentation exercises, *Concrete Structures, Second Edition*, is tailored to the most practical questions and fundamental concepts of design of structures in reinforced concrete. The text stands as an ideal learning resource for civil engineering, building construction, and architecture students as well as a valuable reference for concrete structural design professionals in practice.

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