



Concrete Structures

Mehdi Setareh, Robert Darvas

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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 metric units and the most up-to-date edition of the American Concrete Institute Code (ACI 318-14) requirements for the design of concrete structures. 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. Distinct from advanced, graduate engineering texts, where treatment of the subject centers around the theoretical and mathematical aspects of design over details of design. This book is written for undergraduate structural design courses in architecture, building construction, and civil engineering where students have generally only been exposed to one course in structural design. Adopting a highly graphic and interactive approach in its use of detailed color images and web-based self-experimentation tools, "Concrete Structures, Second Edition," is tailored to the most practical design 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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