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Principles Of Reinforced Concrete Design



Synopsis

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.

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Customer Reviews

"The material is presented in a basic and intuitive manner. The book emphasizes basic concepts and gets those concepts across in a manner a novice structural engineer can grasp. The book does not lose sight of big-picture design decisions and does not get bogged down with prescriptive code clauses." •Wassim Ghannoum, University of Texas at Austin, USA "presents a terrific overview of fundamental techniques in reinforced concrete design. Unique to this textbook is the author's detailed introduction of the history and evolution of reinforced concrete. By showing students how the technical challenges of the day called for particular improvements in reinforced concrete design techniques, the authors will surely motivate students to pursue the research necessary to create their own innovations in the field." •Dr. Mohammed E. Haque, PE, Texas A&M University, College Station "The book provides perspective to an undergraduate student that is trying to understand how concrete structures stand up. It does not throw the novice student into the intricacies of the Code, but instead builds on first principles that the student learned in earlier classes and provides a guide for how design of concrete structures fit with that theory." •JoAnn Browning, University of Kansas "The book material is prepared in a way that lends itself perfectly for the first undergraduate class in reinforced concrete design. The division of material into small sections that can be read easily and discussed in class sessions provides a fresh look to the traditional way textbooks related to reinforced concrete design are written. The chapter on history of reinforced concrete (Chapter 1), in particular, contains a wealth of information on specific developments that have led to the current practice of reinforced concrete construction and design. Almost each sentence in this chapter mentions a major development that the reader may be interested in studying in more detail." •Sergio F. Breña, University of Massachusetts Amherst

Pujol is a great professor and does a good job with simplifying the ideas for a student to understand before getting into boring, painful code.

excellent

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