



Advanced Materials and Techniques for Reinforced Concrete Structures

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From China to Kuala Lumpur to Dubai to downtown New York, amazing buildings and unusual structures create attention with the uniqueness of their design. While attractive to developers and investors, the safe and economic design and construction of reinforced concrete buildings can sometimes be problematic.

Advanced Materials and Techniques for Reinforced Concrete Structures discusses how to create safety and economy in design, construction, and maintenance operations plans. The author presents up-to-date data on advanced materials and techniques, exploring the advantages and disadvantages of different structure systems in durability, reliability, construction, and architectural requirements.

Highlighting the competitive nature of the business, the author delineates the statistical parameters that govern quality control in concrete construction projects, defining complicated statistical terms and the theoretical background needed for determining and meeting quality control criteria. He begins with a discussion of how to control the project to meet the owner's requirements and includes coverage of the international codes for different loads that affect buildings. The book details traditional and emerging materials used in concrete technology such as high-strength, high-performance, and self-compacted concrete as well as those used in all construction stages for various climates. It concludes with a description of a risk-based maintenance plan for reinforced concrete structures.

A guidebook and handbook, this resource provides the information required for decision-making on structure systems, materials, construction methods, and maintenance plans. Filled with case studies, it delineates practical applications and up-to-date methods for designing and constructing buildings that are aesthetically pleasing and structurally sound.

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