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Reinforced Concrete Mechanics and Design, 6th Edition Prentice Hall (2011)

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The focus is on the design of elements in reinforced concrete buildings where the primary reinforcement is steel reinforcing bars or steel wire reinforcement that is not prestressed. To safely and economically design reinforced concrete structures, a thorough understanding of the

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Mechanics and Design of Concrete Structures | Civil and ...

The Ultimate Load Theory Applied to the Design of Reinforced and Prestressed Concrete Frames. London, England: Concrete Publications, 1956. Bazant, Z. P. Fracture Mechanics of Concrete Structures.

Readings | Mechanics and Design of Concrete Structures ...

HDM Chapter 19 - Reinforced Concrete Box Culverts and Similar Structures. Purpose: The purpose of this chapter is to discuss requirements for designing reinforced concrete culverts and to provide guidance about the information to include in the contract documents, where to present the information, and details for cast-in-place culverts.

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Chapter 19

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Because strength design of reinforced concrete masonry is so similar to that of reinforced concrete, the authors felt

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that this would be a logical extension to the application of the theories developed earlier in the text. The design of masonry lintels, walls loaded out-of-plane, and shear walls are included.

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Reinforced Concrete: Mechanics and Design, 6th Edition James K. Wight, University of Michigan James G. MacGregor. Table of Contents
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reinforced concrete in easy-to-
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The theory of reinforced concrete design is presented as a direct application of the laws of statics and behavior of reinforced concrete. This book emphasizes that a successful design must not only satisfy the design equations, but practical construction aspects as well. Covering basic undergraduate level concepts and more advanced topics, this book includes detailed treatments of flexure, shear, development and columns at a level suitable for undergraduate use, as well as the more difficult areas of strain compatibility solutions of beams, P-(Delta) analyses of frames, strut-and-tie models, and design for earthquake resistance. The numerous examples are all worked out completely, step-by-step.

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"Introduction -- Flexural analysis of beams -- Strength analysis of beams according to ACI code -- Design of rectangular beams and one-way slabs -- Analysis and design of T beams and doubly reinforced beams -- Serviceability -- Bond, development lengths, and splices -- Shear and diagonal tension -- Introduction to columns -- Design of short columns subject to axial load and bending -- Slender columns -- Footings -- Retaining walls -- Continuous reinforced concrete structures -- Torsion -- Two-way slabs, direct design method -- Two-way slabs, equivalent frame method -- Walls -- Prestressed concrete -- Formwork -- Reinforced concrete building systems." -- OhioLink Library Catalog.

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transparent and lightweight fiber-reinforced polymers (FRPs) are accepted as valid alternatives to steel in concrete reinforcement. Reinforced Concrete with FRP Bars: Mechanics and Design, a technical guide based on the authors' more than 30 years of collective experience, provides principles, algorithms, and practical examples. Well-illustrated with case studies on flexural and column-type members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement applications. The text discusses FRP materials properties, and addresses testing and quality control, durability, and serviceability. It provides a historical overview, and emphasizes the ACI

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technical literature along with other research worldwide. Includes an explanation of the key physical mechanical properties of FRP bars and their production methods Provides algorithms that govern design and detailing, including a new formulation for the use of FRP bars in columns Offers a justification for the development of strength reduction factors based on reliability considerations Uses a two –story building solved in Mathcad® that can become a template for real projects This book is mainly intended for practitioners and focuses on the fundamentals of performance and design of concrete members with FRP reinforcement and reinforcement detailing. Graduate students and researchers can use it as a valuable resource. Antonio Nanni is a professor

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at the University of Miami and the University of Naples Federico II. Antonio De Luca and Hany Zadeh are consultant design engineers.

This book is focused on the theoretical and practical design of reinforced concrete beams, columns and frame structures. It is based on an analytical approach of designing normal reinforced concrete structural elements that are compatible with most international design rules, including for instance the European design rules – Eurocode 2 – for reinforced concrete structures. The book tries to distinguish between what belongs to the structural design philosophy of such structural elements (related to strength of materials arguments) and what belongs to the design rule aspects associated with

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specific characteristic data (for the material or loading parameters). A previous book, entitled Reinforced Concrete Beams, Columns and Frames – Mechanics and Design, deals with the fundamental aspects of the mechanics and design of reinforced concrete in general, both related to the Serviceability Limit State (SLS) and the Ultimate Limit State (ULS), whereas the current book deals with more advanced ULS aspects, along with instability and second-order analysis aspects. Some recent research results including the use of non-local mechanics are also presented. This book is aimed at Masters-level students, engineers, researchers and teachers in the field of reinforced concrete design. Most of the books in this area are very practical or code-oriented, whereas

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this book is more theoretically based, using rigorous mathematics and mechanics tools. Contents 1.

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Table. About the Authors Jostein

Hellesland has been Professor of

Structural Mechanics at the University of Oslo, Norway since January 1988.

His contribution to the field of stability has been recognized and magnified by many high-quality papers in famous international journals such as

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Structural Engineering. Noël Challamel is Professor in Civil Engineering at

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UBS, University of South Brittany in France and chairman of the EMI-ASCE Stability committee. His contributions mainly concern the dynamics, stability and inelastic behavior of structural components, with special emphasis on Continuum Damage Mechanics (more than 70 publications in International peer-reviewed journals). Charles Casandjian was formerly Associate Professor at INSA (French National Institute of Applied Sciences), Rennes, France and the chairman of the course on reinforced concrete design. He has published work on the mechanics of concrete and is also involved in creating a web experience for teaching reinforced concrete design – BA-CORTEX. Christophe Lanos is Professor in Civil Engineering at the University of Rennes 1 in France. He

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has mainly published work on the mechanics of concrete, as well as other related subjects. He is also involved in creating a web experience for teaching reinforced concrete design – BA-CORTEX.

Reinforced concrete design encompasses both the art and science of engineering. This book presents the theory of reinforced concrete as a direct application of the laws of statics and mechanics of materials. In addition, it emphasizes that a successful design not only satisfies design rules, but also is capable of being built in a timely fashion and for a reasonable cost. A multi-tiered approach makes Reinforced Concrete: Mechanics and Design an outstanding textbook for a variety of university courses on reinforced concrete design.

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This established textbook sets out the principles of limit state design and of its application to reinforced and prestressed concrete members and structures. It will appeal both to students and design engineers. The

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fourth edition incorporates information on the recently introduced British Standard Code of practice for water retaining structures BS8007. The authors have also taken the opportunity of making minor revisions, generally based on the recommendations of BS8110.

This new edition of a highly practical text gives a detailed presentation of the design of common reinforced concrete structures to limit state theory in accordance with BS 8110.

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