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satisfies design rules, but also is capable of being built in a timely fashion and for a reasonable cost.

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Reinforced Concrete: Mechanics and Design uses the theory of reinforced concrete design to teach students the basic scientific and artistic principles of civil engineering. The text takes a topic often introduced at the advanced level and makes it accessible to all audiences by building a foundation with core engineering concepts.

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Reinforced Concrete: Mechanics and Design: International ...

The new chapter on strength design of reinforced concrete masonry that was added to the ninth edition of the text has been updated to conform to the 2013 issue of ACI 530. Because this code revision involved a lot of reorganization, most of the code references are different. This chapter is available only online (www.wiley.com/college/mccormac).

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Reinforced-Concrete-9th-Edition-by-McCormac Centroid of tension steel bars is located at a distance from the bottom of the beam of $[(4)(1.00 \text{ in}^2)(3 \text{ in}) + (2)(1.00 \text{ in}^2)(6 \text{ in})]/6 = 4 \text{ in.}$, or one inch above the bottom layer. Therefore $d = 20 \text{ in.}$

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Updated to conform to the 2008 building code of the American Concrete Institute (ACI 318 – 08), the Eighth Edition of Design of Reinforced Concrete gives you a thorough grounding in the field and an up – to – date understanding of the most current developments in codes, tools, and design elements.

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9780133485967: Reinforced Concrete: Mechanics and Design ...

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The purpose of this book is to present and explain the following in a simple and straightforward manner: (1) the underlying principles of reinforced concrete design; (2) the analysis, design, and detailing requirements in the 2008 edition of Building Code Requirements for Structural Concrete and Commentary by the American Concrete Institute (ACI) and the 2009 edition of the International Building Code by the International Code Council (ICC).

This Book Systematically Explains The Basic Principles And Techniques Involved In The Design Of Reinforced Concrete Structures. It Exhaustively Covers The First Course On The Subject At B.E./ B.Tech Level. Important Features: * Exposition Is Based On The

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Latest Indian Standard Code Is: 456-2000. * Limit State Method Emphasized Throughout The Book. * Working Stress Method Also Explained. * Detailing Aspects Of Reinforcement Highlighted. * Incorporates Earthquake Resistant Design. * Includes A Large Number Of Solved Examples, Practice Problems And Illustrations. The Book Would Serve As A Comprehensive Text For Undergraduate Civil Engineering Students. Practising Engineers Would Also Find It A Valuable Reference Source.

The sixth edition of this comprehensive textbook provides the same philosophical approach that has gained wide acceptance since the first edition was published in 1965. The strength and behavior of concrete elements are treated with the primary objective of explaining and justifying the rules and formulas of the ACI Building Code. The

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treatment is incorporated into the chapters in such a way that the reader may study the concepts in a logical sequence in detail or merely accept a qualitative explanation and proceed directly to the design process using the ACI Code.

An exploration of the world of concrete as it applies to the construction of buildings, Reinforced Concrete Design of Tall Buildings provides a practical perspective on all aspects of reinforced concrete used in the design of structures, with particular focus on tall and ultra-tall buildings. Written by Dr. Bungale S. Taranath, this work explains the fundamental principles and state-of-the-art technologies required to build vertical structures as sound as they are eloquent. Dozens of cases studies of tall buildings throughout the world, many designed by Dr. Taranath, provide in-depth insight on why and how

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specific structural system choices are made. The book bridges the gap between two approaches: one based on intuitive skills and experience and the other based on computer skills and analytical techniques.

Examining the results when experiential intuition marries unfathomable precision, this book discusses: The latest building codes, including ASCE/SEI 7-05, IBC-06/09, ACI 318-05/08, and ASCE/SEI 41-06 Recent developments in studies of seismic vulnerability and retrofit design Earthquake hazard mitigation technology, including seismic base isolation, passive energy dissipation, and damping systems Lateral bracing concepts and gravity-resisting systems Performance based design trends Dynamic response spectrum and equivalent lateral load procedures Using realistic examples throughout, Dr. Taranath shows how to create sound, cost-efficient high rise structures. His lucid and thorough explanations provide the tools required to derive

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systems that gracefully resist the battering forces of nature while addressing the specific needs of building owners, developers, and architects. The book is packed with broad-ranging material from fundamental principles to the state-of-the-art technologies and includes techniques thoroughly developed to be highly adaptable. Offering complete guidance, instructive examples, and color illustrations, the author develops several approaches for designing tall buildings. He demonstrates the benefits of blending imaginative problem solving and rational analysis for creating better structural systems.

"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

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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.

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

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– 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 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.

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Most of the books in this area are very practical or code-oriented, whereas this book is more theoretically based, using rigorous mathematics and mechanics tools. Contents 1. Advanced Design at Ultimate Limit State (ULS). 2. Slender Compression Members – Mechanics and Design. 3. Approximate Analysis Methods. Appendix 1. Cardano ' s Method. Appendix 2. Steel Reinforcement Table.

About the Authors Jostein Helleland 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 Engineering Structures, Thin-Walled Structures, Journal of Constructional Steel Research and Journal of Structural Engineering. No ë | Challamel is Professor in Civil Engineering at UBS, University of South Brittany in France and chairman of the EMI-ASCE Stability

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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 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.

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This book will provide comprehensive, practical knowledge for the design of reinforced concrete buildings. The approach will be unique as it will focus primarily on the design of various structures and structural elements as done in design offices with an emphasis on compliance with the relevant codes. It will give an overview of the integrated design of buildings and explain the design of various elements such as slabs, beams, columns, walls, and footings. It will be written in easy-to-use format and refer to all the latest relevant American codes of practice (IBC and ASCE) at every stage. The book will compel users to think critically to enhance their intuitive design capabilities.

For courses in architecture and civil engineering. Reinforced Concrete: Mechanics and Design uses the theory of reinforced concrete design to

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teach students the basic scientific and artistic principles of civil engineering. The text takes a topic often introduced at the advanced level and makes it accessible to all audiences by building a foundation with core engineering concepts. The Seventh Edition is up-to-date with the latest Building Code for Structural Concrete, giving students access to accurate information that can be applied outside of the classroom. Students are able to apply complicated engineering concepts to real world scenarios with in-text examples and practice problems in each chapter. With explanatory features throughout, the Seventh Edition makes the reinforced concrete design a theory all engineers can learn from.

Sets out basic theory for the behavior of reinforced concrete structural elements and structures in considerable depth. Emphasizes behavior at

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the ultimate load, and, in particular, aspects of the seismic design of reinforced concrete structures. Based on American practice, but also examines European practice.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A fully revised guide to the design and analysis of reinforced concrete structures according to the 2014 edition of ACI 318 This practical resource offers concise explanations of reinforced concrete design principles and teaches safe and cost-effective engineering and construction techniques.

Reinforced Concrete Structures: Analysis and Design, Second Edition, has been thoroughly updated to reflect the latest requirements in both the 2014 ACI 318 structural concrete code and the 2015 International

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Building Code®. Examples, procedures, and flowcharts illustrate compliance with each provision. This comprehensive guide features new in-depth coverage of ACI earthquake design requirements. SI units are now included throughout all of the chapters. Reinforced Concrete Structures: Analysis and Design, Second Edition, covers: Material properties of concrete and reinforcing steel

A PRACTICAL GUIDE TO REINFORCED CONCRETE
STRUCTURE ANALYSIS AND DESIGN Reinforced Concrete
Structures explains the underlying principles of reinforced concrete
design and covers the analysis, design, and detailing requirements in
the 2008 American Concrete Institute (ACI) Building Code
Requirements for Structural Concrete and Commentary and the 2009
International Code Council (ICC) International Building Code (IBC).

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This authoritative resource discusses reinforced concrete members and provides techniques for sizing the cross section, calculating the required amount of reinforcement, and detailing the reinforcement.

Design procedures and flowcharts guide you through code requirements, and worked-out examples demonstrate the proper application of the design provisions. **COVERAGE INCLUDES:**

Mechanics of reinforced concrete
Material properties of concrete and reinforcing steel
Considerations for analysis and design of reinforced concrete structures
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