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DESIGN OF REINFORCED CONCRETE STRUCTURES

Design of Reinforced Concrete

Practical Design of Reinforced Concrete

Recent Development in Reinforced Concrete Slab Analysis, Design, and Serviceability

Concrete Structures

Comparison Study of Design Reinforced Concrete Column Using BS 8110 & EUROCODE 2

PRESTRESSED CONCRETE : ANALYSIS AND DESIGN PRACTICE OF MEMBERS

Reinforced Concrete Beams, Columns and Frames

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Design of Reinforced Concrete Structures for Architects

Design of Wind and Earthquake Resistant Reinforced Concrete Buildings

Reinforced Concrete Design

Reinforced Concrete Design to Eurocode 2

Finite Element Design of Concrete Structures

Reinforced Concrete Design

Reinforced Concrete Structures Handbook

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Concrete Shell Elements*

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Reinforced Concrete Structures: Analysis and Design Springer

The popular, easily accessible guide to the design of reinforced concrete structures—now updated and revised Structural Concrete, Fifth Edition provides complete guidance to the analysis and design of reinforced and prestressed concrete structures. This new edition brings all material up to date while maintaining the book's practical, logical, easy-to-follow approach. Coverage includes the latest ACI 318 - 11 code rules, emphasizing the code's strength approach and strain limits. Additional codes, standards, and specifications, as well as material properties and specific loads and safety provisions are

also examined in detail. Drawing on decades of experience in industry and academia, the authors include numerous SI unit examples and design tables along with step-by-step instructions on how to analyze and design for each type of structural member. They clearly explain all key concepts one should know before tackling design formulas, and supplement the discussion with helpful end-of-chapter summaries, references, and problems. New and updated material in this edition includes: The application of shear design to beams with variable length in actual structure The design of deep beams employing ACI and AASHTO strut-and-tie approach The design of stepped-type reinforced concrete stairs, not covered anywhere else Seismic design and analysis utilizing the IBC 2012 and ASCE 7-10 code The design of curved beams subject to flexure, shear, and torsion Prestressed concrete bridge design according to AASHTO

specifications Examples for predicting shrinkage and creep of concrete in both U.S. and SI units Structural Concrete, Fifth Edition arms civil and structural engineers with a complete set of tools for designing concrete structures with confidence. It is also an excellent resource for students of civil engineering.

Reinforced and Prestressed Concrete Design CRC Press
This textbook describes the basic mechanical features of concrete and explains the main resistant mechanisms activated in the reinforced concrete structures and foundations when subjected to centred and eccentric axial force, bending moment, shear, torsion and prestressing. It presents a complete set of limit-state design criteria of the modern theory of RC incorporating principles and rules of the final version of the official Eurocode 2. This textbook examines methodological more than notional aspects of the presented topics, focusing on the verifications of assumptions, the rigorousness of the analysis and the consequent degree of reliability of results. Each chapter develops an organic topic, which is eventually illustrated by examples in each final paragraph containing the relative numerical applications. These practical end-of-chapter appendices and intuitive flow-charts ensure a smooth learning experience. The book stands as an ideal learning resource for students of structural design and analysis courses in civil engineering, building construction and architecture, as well as a valuable reference for concrete structural design professionals in practice.

Structural Concrete CRC Press

This text presents the most effective analysis for predicting the true stresses and deflections of concrete structures, accounting

for creep and shrinkage of concrete and relaxation of prestressed reinforcement. Sustainability has become a major requirement in modern structures, which need to sustain satisfactory service over a longer life. It is not rare to specify a life span of 100 years for infrastructure such as bridges. This complete and wide-ranging study of stresses and deformations of reinforced and prestressed concrete structures focuses on design methods for avoiding the deflections and cracking that diminish serviceability. This fourth edition has a new emphasis on designing for serviceability. It has been comprehensively updated. It now includes 65 solved examples and more than 45 instructive problems with answers given at the end of the book. An accompanying website contains design calculation programs, which allow interactive data input. Independent of codes of practice, the book is universally applicable, and is especially suitable for practising engineers and graduate students.

Reinforced Concrete Basics Prentice Hall

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 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 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 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 Engineering Structures, Thin-Walled Structures, Journal of Constructional Steel Research and Journal of Structural Engineering. Noël Challamel is Professor in Civil Engineering at 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 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.

Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures CRC Press

Structural Concrete: Theory and Design is a comprehensive new textbook that fills the gap between industrial and educational requirements by helping students understand the practical aspects of the modern design of concrete structures. M. Nadim Hassoun presents the analysis and design of both reinforced and prestressed concrete elements in an exceptionally logical and easy to read manner. Written to cover a two-course sequence on the design of reinforced concrete structures, this book should also serve as a valuable reference for the practicing engineer and those interested in concrete materials and design.

Nonlinear Seismic Analysis and Design of Reinforced Concrete Buildings Prentice Hall

This book addresses an overall approach presenting comprehensive principles and description of the analysis and design of prestressed concrete members, from its initial design concepts, analysis, to the construction stage. The structural components are analyzed and designed to conform to the requirements of Eurocodes, [that are similar to Indian Standard

Codes] followed throughout the world. In order to elaborate on the concept of prestressed concrete, seven different cases are dealt with in this book to add an analytical approach to the subject. The concepts explained are well-supported with the mathematical derivations and problem formulations. Illustrative figures and tables further help in making understanding of the concepts easier. The book serves as a reference for the undergraduate students of civil and structural engineering.

Reinforced Concrete Structures John Wiley & Sons

A comprehensive review of the material behavior of concrete under dynamic loads, especially impact and impuls, opens the volume. It is followed by a summary of the various analytical tools available to engineers interested in analyzing the nonlinear behavior of reinforced concrete members for dynamic load.

These range from relatively simple and practice-oriented push-over analysis to sophisticated layered finite element models. Important design-related topics are discussed, with special emphasis on performance of concrete frames subjected to seismic loads. The significance of modern software systems is recognized by including extensive examples. For readers not current in dynamic analysis methods, an appendix contains a review of the mathematical methods most commonly used for such analysis.

Structural Concrete World Scientific

Reinforced Concrete Structures: Analysis and Design McGraw Hill Professional

Concrete Slabs McGraw-hill

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.

Analysis and Design of FRP Reinforced Concrete Structures Springer

This book compiles state-of-the-art information on the behavior, analysis, and design of concrete beams containing transverse openings. Discussions include the need, effects, and classification of openings as well as the general requirements for fulfilling design pure bending, combined bending, and shear - illustrated with numerical examples torsion alone or in combination with bending and shear large rectangular openings as well as opening size and location on beam behavior methods for analyzing ultimate strength and serviceability requirements effects of torsion in beams large openings in continuous beams and their effects on possible redistribution of internal forces as well as guidelines and procedures for the design of such beams effect of prestressing on the serviceability and strength of beams with web openings design against cracking at openings and ultimate loads Concrete Beams with Openings serves as an invaluable source of information for designers and practicing engineers, especially useful since little or no provision or guidelines are currently available in most building codes.

Concrete Structures Cambridge University Press

This book provides an up-to-date description of the latest procedures for analysis and design of reinforced concrete slabs. It explains the yield line method of analysis and Hillerborg's strip method of design, and discusses the basic North American and British practices.

Design of Modern Highrise Reinforced Concrete Structures CRC Press

Designed primarily as a text for the undergraduate students of civil engineering, this compact and well-organized text presents all the basic topics of reinforced concrete design in a comprehensive manner. The text conforms to the limit states design method as given in the latest revision of Indian Code of Practice for Plain and Reinforced Concrete, IS: 456 (2000). This book covers the applications of design concepts and provides a wealth of state-of-the-art information on design aspects of wide variety of reinforced concrete structures. However, the emphasis is on modern design approach. The text attempts to:

- Present simple, efficient and systematic procedures for evolving design of concrete structures.
- Make available a large amount of field tested practical data in the appendices.
- Provide time saving analysis and design aids in the form of tables and charts.
- Cover a large number of worked-out practical design examples and problems in each chapter.
- Emphasize on development of structural sense needed for proper detailing of steel for integrated action in various parts of the structure.

Besides students, practicing engineers and architects would find this text extremely useful.

Modelling and Analysis of Reinforced Concrete Structures for Dynamic Loading PHI Learning Pvt. Ltd.

Forty scientists working in 13 different countries detail in this work the most recent advances in seismic design and performance assessment of reinforced concrete buildings. It is a valuable contribution in the mitigation of natural disasters.

Limit Analysis and Concrete Plasticity John Wiley & Sons

Publisher Description

Reinforced and Prestressed Concrete Prentice Hall

No further information has been provided for this title.

Reinforced Concrete Structures: Analysis and Design

Abhishek Publications

Tools to Safeguard New Buildings and Assess Existing Ones

Nonlinear analysis methods such as static pushover are globally considered a reliable tool for seismic and structural assessment.

But the accuracy of seismic capacity estimates—which can prevent catastrophic loss of life and astronomical damage repair costs—depends on the use of the correct basic input parameters.

Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures simplifies the estimation of those vital parameters.

Many design engineers make the relatively common mistake of using default properties of materials as input to nonlinear analyses without realizing that any minor variation in the nonlinear characteristics of constitutive materials, such as concrete and steel, could result in a solution error that leads to incorrect assessment or interpretation. *Streamlined Analysis Using a Mathematical Model To achieve a more accurate*

pushover analysis and improve general performance-based design, this book reassesses some key inputs, including axial force-bending moment yield interaction, moment-curvature, and moment-rotation characteristics. It analyzes these boundaries using a detailed mathematical model of reinforced concrete sections based on international codes, and then proposes design curves and tables derived from the authors' studies using a variety of nonlinear tools, computer programs, and software. The text reviews relevant literature and describes mathematical modeling, detailing numerical procedures step by step. Including supplementary online material that can be used to compute any

parameter, this reference delineates nonlinear properties of materials so that they can be used instantly for seismic analysis without having to solve cumbersome equations.

Reinforced Concrete PHI Learning Pvt. Ltd.

In *Finite Element Design of Concrete Structures: practical problems and their solutions* the author addresses this blind belief in computer results by offering a useful critique that important details are overlooked due to the flood of information from the output of computer calculations. Indeed, errors in the numerical model may lead in extreme cases to structural failures as the collapse of the so-called Sleipner platform has demonstrated.

Analysis and Design Practice of Hydraulic Concrete Structures CRC Press

Intended for courses on the Analysis and Design of Reinforced Concrete Structures found in undergraduate Civil and Structural Engineering Departments. This text will also be of use to practising designers. *Reinforced Concrete Basics* is a book on analysis and design of reinforced concrete structures, starting with the fundamentals followed by the developing of advanced approaches. It contains the material needed for both undergraduate and postgraduate courses in reinforced concrete and for practising engineers. In preparing the text, the authors provide an understanding of structural behaviour before undertaking any quantitative analysis. Examples are introduced at an early stage in the development of each topic. Readers can use the examples as exercises to test their understanding as they proceed with their study of the material.

Concrete Beams with Openings Reinforced Concrete

Structures: Analysis and Design

First published in 1984, *Limit Analysis and Concrete Plasticity* explains for advanced design engineers the principles of plasticity theory and its application to the design of reinforced and prestressed concrete structures, providing a thorough understanding of the subject, rather than simply applying current design formulas. Updated and revised th

Reinforced Concrete: Analysis and Design Cuvillier Verlag

Design of Wind and Earthquake Resistant Reinforced Concrete Buildings explains wind and seismic design issues of RCC buildings in brief and provides design examples based on recommendations of latest IS codes essential for industrial design. Intricate issues of RCC design are discussed which are supplemented by real-life examples. Guidelines are presented for evaluating the acceptability of wind-induced motions of tall buildings. Design methodologies for structures to deform well beyond their elastic limits, which is essential under seismic excitation, have been discussed in detail. Comparative discussion including typical design examples using recent British, Euro and American codes is also included. Features: Explains wind and earthquake resistant design issues, balancing theoretical aspects and design implications, in detail Discusses issues for designing the wind and earthquake resistant RCC structures Provides comprehensive understanding, analysis, design and detailing of the structures Includes a detailed discussion on IS code related to wind and earthquake resistant design and its comparison with Euro, British and American codes Contains architectural drawings and structural drawings The book is aimed at researchers, professionals, graduate students in wind and earthquake

engineering, design of RCC structures, modelling and analysis of structures, civil/infrastructure engineering.

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