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LooseLeaf for Design of Concrete Structures
Standard Method of Detailing Structural Concrete
In-situ Monitoring and Testing of IBRC Bridges in Wisconsin
Advances in Engineering Structures, Mechanics & Construction
Strengthening of Reinforced Concrete Structures
Reinforced Concrete Design with FRP Composites
Materiality and Interior Construction
4th Edition
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Structural Concrete
Microstructure, Properties, and Materials
Composites for Construction
Minimum Design Loads for Buildings and Other Structures
Prestressed Concrete
Analysis and Design with Emphasis on Application of AS3600-2009
Design of Prestressed Concrete
Concrete
A Manual for Best Practice
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Computational Modelling of Concrete Structures
Concrete Structures, 3rd Edition
A Fundamental Approach
Reinforced and Prestressed Concrete
Proceedings of an International Conference on Advances in Engineering Structures, Mechanics & Construction, held in Waterloo,

Ontario, Canada, May 14-17, 2006
Earthquake Resistant Engineering Structures VII
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Crack Analysis in Structural Concrete Springer
Written for the practicing architect, Structural Designaddresses the process on both a conceptual and a mathematicallevel. Most importantly, it helps architects work with structuralconsultants and understand all the necessary considerations whendesigning structural systems. Using a minimum of simple math, thisbook shows you how to make correct design calculations forstructures made from steel, wood, concrete, and masonry. What?smore, this edition has been completely updated to reflect thelatest design methods and codes, including LRFD for steel design.The book was also re-designed for easy navigation. Essentialprinciples, as well as structural solutions, are visuallyreinforced with hundreds of drawings, photographs, and otherillustrations--making this book truly architect-friendly.

LooseLeaf for Design of Concrete Structures PHI Learning Pvt. Ltd.
A comprehensive reference of materials for interior designers and architects Choosing the right material for the right purpose is a critical—and often overlooked—aspect in the larger context of designing buildings and interior spaces. When specified and executed properly, materials support and enhance a project's overall theme, and infuse interior space with a solid foundation that balances visual poetry and functionality. Materiality and Interior Construction imparts essential knowledge on how

materials contribute to the construction and fabrication of floors, partitions, ceilings, and millwork, with thorough coverage of the important characteristics and properties of building materials and finishes. Individual coverage of the key characteristics of each material explores the advantages and disadvantages of using specific materials and construction assemblies, while helping readers discover how to make every building element count. In addition, Materiality and Interior Construction: Is highly illustrated throughout to show material properties and building assemblies Supplies rankings and information on the "green" attributes of each material so that designers can make informed decisions for specifications Is organized by application for easy and quick access to information Includes a companion website, featuring an extensive online image bank of materials and assemblies Rather than a typical catalog of materials, Materiality and Interior Construction is efficiently organized so that the reader is guided directly to the options for the location or assembly they are considering. Reliable and easy to use, Materiality and Interior Construction is a one-stop, comprehensive reference for hundreds of commonly used materials and their integration as building components—and an invaluable resource that every interior designer or architect should add to their set of tools.

Standard Method of Detailing Structural Concrete Design of Concrete Structures

Third Printing, incorporating errata, Supplement 1, and expanded commentary, 2013.

In-situ Monitoring and Testing of IBRC Bridges in Wisconsin Zahid Ahmad Siddiqi

Design of Concrete StructuresMcGraw-Hill College

Advances in Engineering Structures, Mechanics & Construction Springer

The first edition of this comprehensive work quickly filled the need for an in-depth handbook on concrete construction engineering and technology. Living up to the standard set by its bestselling predecessor, this second edition of the Concrete Construction Engineering Handbook covers the entire range of issues pertaining to the construction

Strengthening of Reinforced Concrete Structures John Wiley & Sons Incorporated

Pile Foundations are an essential basis for many structures. It is vital that they be designed with the utmost reliability, because the cost of failure is potentially huge. Covering a whole range of design issues relating to pile design, this book presents economical and efficient design solutions and demonstrates them using real world examples. Co

Reinforced Concrete Design with FRP Composites John Wiley & Sons

Since 1984 the EURO-C conference series (Split 1984, Zell am See 1990, Innsbruck 1994, Badgastein 1998, St Johann im Pongau 2003, Mayrhofen 2006, Schladming 2010) has provided a forum for academic discussion of the latest theoretical, algorithmic and modelling developments associated with computational simulations of concrete and concrete structure

Materiality and Interior Construction PHI Learning Pvt. Ltd.

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 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.

4th Edition CRC Press

This edition covers the latest changes in UK and international practice, and the design methods described refer to British Standards 8007, 8110 and 8102 as well as US standards (including ACI codes). Reference is also made to the recent Australian standard AS 3735-1991.

A Fundamental Approach Cambridge University Press

Complete coverage of earthquake-resistant concrete building design Written by a renowned seismic engineering expert, this authoritative resource discusses the theory and practice for the design and evaluation of earthquakeresisting reinforced concrete buildings. The book addresses the behavior of reinforced concrete materials, components, and systems subjected to routine and extreme loads, with an emphasis on response to earthquake loading. Design methods, both at a basic level as required by current building codes and at an advanced level needed for special problems such as seismic performance assessment, are described. Data and models useful for analyzing reinforced concrete structures as well as numerous illustrations, tables, and equations are included in this detailed reference. Seismic Design of Reinforced Concrete Buildings covers: Seismic design and performance verification Steel reinforcement Concrete Confined concrete Axially loaded members Moment and axial force Shear in beams, columns, and walls Development and anchorage Beam-column connections Slab-column and slab-wall connections Seismic design overview Special moment frames Special structural walls Gravity framing Diaphragms and collectors Foundations

Structural Concrete John Wiley & Sons

With contributions from leading brand experts around the world, this valuable resource delineates the case for brands (financial value, social value, etc.) and looks at what makes certain brands great. It covers best practices in branding and also looks at the future of brands in the age of globalization. Although the balance sheet may not even put a value on it, a company’s brand or its portfolio of brands is its most valuable asset. For well-known companies it has been calculated that the brand can account for as much as 80 percent of their market value. This book argues that because of this and because of the power of not-for-profit brands like the Red Cross or Oxfam, all organisations should make the brand their central organising principle, guiding every decision and every action. As well as making the case for brands and examining the argument of the anti-globalisation movement that brands are bullies which do harm, this second edition of Brands and Branding provides an expert review of best practice in branding, covering everything from brand positioning to brand protection, visual and verbal identity and brand communications. Lastly, the third part of the book looks at trends in branding, branding in Asia, especially in China and India, brands in a digital world and the future for brands. Written by 19 experts in the field, Brands and Branding sets out to provide a better understanding of the role and importance of brands, as well as a wealth of insights into how one builds and sustains a successful brand.

Microstructure, Properties, and Materials CRC Press
This book constitutes the proceedings of the First International Conference on Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22–23 March 2019. The proceedings of the ICETE are published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-the-art research, and are useful to postgraduate students, researchers, academics and industry engineers working in the respective fields. This volume presents state-of-the-art, technical contributions in the areas of civil, mechanical and mining engineering, discussing sustainable developments in fields such as water resource engineering, structural engineering, geotechnical and transportation engineering, mining engineering, production and industrial engineering, thermal engineering, design engineering, and production engineering.
Composites for Construction Pearson
The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate management, and building. Basic civil engineering topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation and environment engineering are explained in detail. Codal provisions of US, UK and India are included to cater to a global audience. Insights into techniques like modern surveying equipment and technologies, sustainable construction materials, and modern construction materials are also included. Key features: • Provides a concise presentation of theory and practice for all technical in civil engineering. • Contains detailed theory with lucid illustrations. • Focuses on the management aspects of a civil engineer's job. • Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies. • Includes codal provisions of US, UK and India. The book is aimed at professionals and senior undergraduate students in civil engineering, non-specialist civil engineering audience
Minimum Design Loads for Buildings and Other Structures Elsevier
Publisher Description
Prestressed Concrete Springer
This revised, fully updated second edition covers the analysis, design, and construction of reinforced concrete structures from a real-world perspective. It examines different reinforced concrete elements such as slabs, beams, columns, foundations, basement and retaining walls and pre-stressed concrete incorporating the most up-to-date edition of the American Concrete Institute Code (ACI 318-14) requirements for the design of concrete structures. It includes a chapter on metric system in reinforced concrete design and construction. A new chapter on the design of formworks has been added which is of great value to students in the construction engineering programs along with practicing engineers and architects. This second edition also includes a new appendix with color images illustrating various concrete

construction practices, and well-designed buildings. The ACI 318-14 constitutes the most extensive reorganization of the code in the past 40 years. References to the various sections of the ACI 318-14 are provided throughout the book to facilitate its use by students and professionals. Aimed at architecture, building construction, and undergraduate engineering students, the scope of concepts in this volume emphasize simplified and practical methods in the analysis and design of reinforced concrete. This is distinct from advanced, graduate engineering texts, where treatment of the subject centers around the theoretical and mathematical aspects of design. As in the first edition, this book adopts a step-by-step approach to solving analysis and design problems in reinforced concrete. Using a highly graphical and interactive approach in its use of detailed images and self-experimentation exercises, “Concrete Structures, Second Edition,” is tailored to the most practical questions and fundamental concepts of design of structures in reinforced concrete. The text stands as an ideal learning resource for civil engineering, building construction, and architecture students as well as a valuable reference for concrete structural design professionals in practice.

Analysis and Design with Emphasis on Application of AS3600-2009 Butterworth-Heinemann

This study examines two highway bridges constructed using novel fiber-reinforced polymer (FRP) composite stay-in-place formwork and an FRP grillage reinforcement system. Both bridge superstructures rely on the FRP components as bridge deck reinforcement. These bridges were monitored in-situ for a period of five years. The monitoring included a series of in-situ load test as well as non-destructive evaluation (NDE). Laboratory investigations accompanied and guided the load testing and NDE implemented. Finite element simulations were employed to evaluate the likely causes of premature deck cracking seen in the traditionally-constructed bridge and the FRP-component superstructures. The study identifies sources of potential deterioration, identifies aspects of the bridge superstructures likely to enhance durability, and quantifies the effectiveness and potential for deterioration of the load transfer mechanisms present in the FRP-component superstructures.

Design of Prestressed Concrete Van Nostrand Reinhold

Simulation Methods for Reliability and Availability of Complex Systems discusses the use of computer simulation-based techniques and algorithms to determine reliability and availability (R and A) levels in complex systems. The book: shares theoretical or applied models and decision support systems that make use of simulation to estimate and to improve system R and A levels, forecasts emerging technologies and trends in the use of computer simulation for R and A and proposes hybrid approaches to the development of efficient methodologies designed to solve R and A-related problems in real-life systems. Dealing with practical issues, Simulation Methods for Reliability and Availability of Complex Systems is designed to support managers and system engineers in the improvement of R and A, as well as providing a thorough exploration of the techniques and algorithms available for researchers, and for advanced undergraduate and postgraduate students.

Concrete CRC Press

The 13th edition of the classic text, Design of Concrete

Structures, is completely revised using the newly released 2002 American Concrete Institute (ACI) Code. This new edition has the same dual objectives as the previous editions: first to establish a firm understanding of the behavior of structural concrete, then to develop proficiency in the methods used in current design practice. Design of Concrete Structures covers the behavior and design aspects of concrete and provides thoroughly updated examples and homework problems throughout. The 13th edition also features a new chapter, Chapter 10, covering strut-and-tie models. The text also presents the basic mechanics of structural concrete and methods for the design of individual members for bending, shear, torsion, and axial force, and provides detail in the various types of structural systems applications.

A Manual for Best Practice McGraw Hill Professional

This textbook presents the art and science of concrete in a simple, clear, hands-on manner. Cement and concrete are predicted to be the premier building material of the 21st Century Includes unique diagrams, photographs, and summary tables Updated to include new chapters on non-destructive methods for concrete; future challenges in concrete technology; an increased number of examples of concrete applications; and new developments in durability

John Wiley & Sons

Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student′s understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy–to–understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318–11 code.

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