Advance Concrete Structure Krishnaraju

Prestressed Concrete Design
Prestressed Concrete
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Reinforced Concrete Structures Vol. II
Reinforced Concrete Design
Design of Reinforced Concrete Foundations
Structural Design and Drawing
Design of Reinforced Concrete Structures for Architects
Design Reinforced Concrete Strucutres 4E
Reinforced Concrete Structures Vol. I
FUNDAMENTALS OF REINFORCED CONCRETE DESIGN
Reinforced Concrete Structure
Design of Bridges
Structural Concrete
Advanced Mechanics of Solids and Structures
Advanced Reinforced Concrete Design, (inkl. E-Book als PDF)
Prestressed Concrete Structures
Advanced Concrete Technology
DESIGN OF CONCRETE STRUCTURES
Design of Reinforced Concrete
Practical Design of Reinforced Concrete Structures
R.C.C. Designs (Reinforced Concrete Structures)
Design of Concrete Structures
ADVANCED REINFORCED CONCRETE DESIGN
Design of Industrial Structures
Advance R.C.C. Design (R.C.C. Volume-Ii)
Structural Design & Drawing: 3Rd Edition
Reinforced Concrete Design: Principles And Practice
PRESTRESSED CONCRETE
Advanced Concrete Technology
Advanced Reinforced Concrete Design (IS : 456-2000), 2e
CONCRETE TECHNOLOGY
Design of reinforced concrete structures
Advanced Reinforced Concrete Design
Limit State Design of Reinforced Concrete
LIMIT STATE DESIGN OF REINFORCED CONCRETE
Advanced Reinforced Concrete Design
Fundamentals of Reinforced Concrete
Design of Reinforced Concrete Structure (IS:456-2000), 3e
Reinforced Concrete Structure

VILLEGAS ERICKSON

Prestressed Concrete Design John Wiley & Sons
The fifth edition of this updated text follows the philosophy of limit state design for the design of various types of road bridge. An integrated design approach involving the limit states of strength and serviceability has been followed for the design of reinforced, prestressed and stell bridges commonly used for national high way crossungs. The revised fifth edition presents in a lucid manner the designs.
Prestressed Concrete PHI Learning Pvt. Ltd.
The Fifth edition of this pioneer text has been thoroughly revised to meet the requirements of undergraduate and postgraduate students of Civil, Structural and Highway Engineering streams and practicing structural engineers. The book incorporates the integrated limit state concepts in the design of various types of Prestressed concrete structures conforming to the latest BIS & IRC codes. Design concepts, construction and rehabilitation techniques are well illustrated through numerous worked out examples, figures and case histories of actual structures. feature: • Latest BIS & IRC Codes used: IS:1343, IRC:6, IRC: 18 & IRC: 21 • Numerous design examples emphasizing practical aspects of construction • Case histories of rehabilitation of actual Prestressed concrete structures
Prestressed Concrete Scientific Publishers
This book `Design of Concrete Structures' in S.I. Units is based on working stress method as per code IS: 456-2000. All the chapters of the book have been revised and re-arranged in eight parts (32 thirty two chapters) separate aspects of design of one structrual member have been described in different subsequent chapters. In addition to above (i) the service life of concrete structures, (ii) Non-destructive tests/ Evaluation of strength (NDT/NDE) of materials and (iii) futuristic construction materials and Technique (FCMT) likely to be used for the concrete are new topics. Text for these topics (rarely, available in current books by other authros) have been first time given to familiarize the readers.
Reinforced Concrete Structures Vol. II AG PUBLISHING HOUSE (AGPH Books)
This substantially revised second edition takes into account the provisions of the revised Indian Code of practice for Plain and Reinforced Concrete IS 456 : 2000. It also provides additional data on detailing of steel to make the book more useful to practicing engineers. The chapter on Limit State of Durability for Environment has been completely revised and the new provisions of the code such as those for design for shear in reinforced concrete, rules for shearing main steel in slabs, lateral steel in columns, and stirrups in beams have been explained in detail in the new edition. This comprehensive and systematically organized book is intended for undergraduate students of Civil Engineering, covering the first course on Reinforced Concrete Design and as a reference for the practicing engineers. Besides covering IS 456 : 2000, the book also deals with the British and US Codes. Advanced topics of IS 456 : 2000 have been

discussed in the companion volume Advanced Reinforced Concrete Design (also published by Prentice-Hall of India). The two books together cover all the topics in IS 456 : 2000 and many other topics which are so important in modern methods of design of reinforced concrete.

Reinforced Concrete Design Firewall Media

Includes developments in the design of prestressed concrete structures. This work incorporates the salient design recommendations of national and major international codes of practice. It follows an integrated limit state approach in design of prestressed concrete structures with emphasis on it's practical aspects.

Design of Reinforced Concrete Foundations Firewall Media

The revised edition of this hallmark text is updated with the recent developments in design, construction and maintenance of Prestressed Concrete Structures. It incorporates the integrated limit state concepts in design with emphasis on the practical aspe.

Structural Design and Drawing PHI Learning Pvt. Ltd.

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.

Design of Reinforced Concrete Structures for Architects New Age International

Structural design and drawing reinforced concrete and steel, in SI units, is an integrated text catering to the needs of civil and structural engineering students and

practicing engineers. The various design examples presented conform to the latest Indian standard codes dealing with reinforced concrete and steel structures. Detailed drawing along with carefully chosed examples, many of them from examination papers, greatly facilitate the understanding of the subject

Design Reinforced Concrete Strucutres 4E PHI Learning Pvt. Ltd.

This book bridges the gap between academic and professional field pertaining to design of industrial reinforced cement concrete and steel structures. It covers pertinent topics on contracts, specifications, soil survey and design criteria to clarify objectives of the design work. Further, it gives out guiding procedures on how to proceed with the construction in phases at site, negotiating changes in equipment and design development. Safety, quality and economic requirements of design are explained with reference to global codes. Latest methods of analysis, design and use of advanced construction materials have been illustrated along with a brief on analysis software and drafting tool.

Reinforced Concrete Structures Vol. I Firewall Media

Concrete is the most used building material. Its main component, cement, however, accounts production- related for up to 10 % of global CO2 emissions and is therefore a major contributor to human-induced climate change. Due to its low tensile strength, concrete must be further enhanced in tension with adequate reinforcement, such as steel. Producing the latter therefore additionally impacts the environment. Consequently, reducing the material amount for design and construction of structures, thus lowering material- and transport-induced emissions, represents a key element to climate protection. In this context, meeting the essential requirements ? sustainability, serviceability, durability ? is yet indispensable. The book presents innovative optimization aided design methods for concrete structures. Mathematical optimization is applied to practical problems of structural concrete at each level: from external, through internal structure identification to cross-section design. It is shown how to design resource-efficient structures following the flux of forces, how to optimally adapt reinforcement layouts to the internal force flow, and how to efficiently cope with demanding cross-sectional design tasks such as biaxial bending. The optimization aided design methods are discussed in detail and described vividly. They are independent of standards, concrete material (normal to ultra-high performance) and reinforcement type (steel fibers to carbon bars), thus universally applicable. The book illustrates the different approaches with numerous figures and calculation examples. Existing applications in structural engineering are presented to demonstrate the potential of optimization aided design concepts, including ultra-lightweight hybrid beams, thin concrete solar collectors, and improved reinforcement layouts for tunnel lining segments. (incl. ebook as PDF)

FUNDAMENTALS OF REINFORCED CONCRETE DESIGN CRC Press

This book is suited for a first course in pre-stressed concrete design offered to senior undergraduate students

in civil engineering and postgraduate students in structural engineering. The book focuses on the behaviour of the pre-stressed concrete structural elements. Carefully-chosen worked examples are included to delineate the design aspects while relevant chapter-end questions enable effortless recapitulation of the subject. The content, while being useful to both the students and teachers, will also serve as an invaluable reference for engineers.

Reinforced Concrete Structure JEC PUBLICATION

Prestressed concrete is widely used in the construction industry in buildings, bridges, and other structures. The new edition of this book provides up-to-date guidance on the detailed design of prestressed concrete structures according to the provisions of the latest preliminary version of Eurocode 2: Design of Concrete Structures, DD ENV 1992-1-1: 1992. The emphasis throughout is on design - the problem of providing a structure to fulfil a given purpose - but fundamental concepts are also described in detail. All major topics are dealt with, including prestressed flat slabs, an important and growing application in the design of buildings. The text is illustrated throughout with worked examples and problems for further study. Examples are given of computer spreadsheets for typical design calculations. Prestressed Concrete Design will be a valuable guide to practising engineers, students and research workers.

Design of Bridges Oxford and Ibh Publishers

Designed primarily as a text for undergraduate students of Civil Engineering for their first course on Limit State Design of Reinforced Concrete, this compact and well-organized text covers all the fundamental concepts in a highly readable style. The text conforms to the provision of the latest revision of Indian Code of Practice for Plain and Reinforced Concrete, IS : 456 (2000). First six chapters deal with fundamentals of limit states design of reinforced concrete. The objective of last two chapters (including design aids in appendix) is to initiate the readers in practical design of concrete structures. The text gives detailed discussion of basic concepts, behaviour of the various structural components under loads, and development of fundamental expressions for analysis and design. It also presents efficient and systematic procedures for solving design problems. In addition to the discussion of basis for design calculations, a large number of worked-out practical design examples based on the current design practices have been included to illustrate the basic principles of reinforced concrete design.Besides students, practising engineers would find this text extremely useful.

Structural Concrete CRC Press

This text primarily analyses different methods of design of concrete structures as per IS 456: 2000 (Plain and Reinforced Concrete—Indian Standard Code of Practice, 4th revision, Bureau of Indian Standards). It gives greater emphasis on the limit state method so as to illustrate the acceptable limits for the safety and serviceability requirements of structures. Besides dealing with yield line

analysis for slabs, the book explains the working stress method and its use for designing reinforced concrete tension members, theory of redistribution of moments, and earthquake resistant design of structures. This well-structured book develops an effective understanding of the theory through numerous solved problems, presenting step-by-step calculations. The use of SP-16 (Design Aids for Reinforced Concrete to IS: 456–1978) has also been explained in solving the problems. KEY FEATURES : Instructional Objectives at the beginning of the chapter highlight important concepts. Summary at the end of the chapter to help student revise key points. Sixty-nine solved illustrative examples presenting step-by-step calculations. Chapter-end exercises to test student’s understanding of the concepts. Forty Tests to enable students to gauge their preparedness for actual exams. This comprehensive text is suitable for undergraduate students of civil engineering and architecture. It can also be useful to professional engineers.

Advanced Mechanics of Solids and Structures John Wiley & Sons

This book on Reinforced Concrete has been comprehensively revised with a view to make it more suitable for the updated syllabus of various Technical Institutes and Engineering Colleges of different Universities.

Advanced Reinforced Concrete Design, (inkl. E-Book als PDF) Ernst & Sohn

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Prestressed Concrete Structures PHI Learning Pvt. Ltd.

Intended as a companion volume to the author's Limit State Design of Reinforced Concrete (published by Prentice-Hall of India), the Second Edition of this comprehensive and systematically organized text builds on the strength of the first edition, continuing to provide a clear and masterly exposition of the fundamentals of the theory of concrete design. The text meets the twin objective of catering to the needs of the postgraduate students of Civil Engineering and the needs of the practising civil engineers as it focuses also on the practices followed by the industry. This text, along with Limit State Design, covers the entire design practice of revised Code IS456 (2000). In addition, it analyzes the procedures specified in many other BIS codes such as those on winds, earthquakes, and ductile detailing. What's New to This Edition Chapter 18 on Earthquake Forces and Structural Response of framed buildings has been completely revised and updated so as to conform to the latest I.S. Codes 1893 (2002) entitled Criteria for Earthquake Resistant Design of Structures (Part I - Fifth Revision). Chapters 19 and 21 which too deal with earthquake design have been revised. A Summary of elementary design of reinforced concrete members is added as Appendix. Valuable tables and charts are presented to help students and practising designers to arrive at a speedy estimate of the steel requirements in slabs, beams, columns and footings of ordinary buildings.

Advanced Concrete Technology S. Chand Publishing

It has been gratifying to find the earlier editions of the book read and used in so many parts of the country.The new edition

oews much to the useful comments and suggestions of the teachers,students and the practising engineers to whom the express their grateful thanks.A new chapter on Prestressed Concrete has been added to the new edition.In particular,the chapter disscusses various aspects of prestressing,like types of prestressing,various methods of prestressing,materials used,losses in prestress,layout of cable profiles,analysis and methods of design of various elements and the detailed analysis and design of end Block.

DESIGN OF CONCRETE STRUCTURES CBS Publishers & Distributors Pvt Limited, India

This book provides, in SI units, an integrated design approach to various reinforced concrete and steel structures, with particular emphasis on the logical presentation of steps conforming to Indian Standard Codes. Detailed drawings along with carefully chosen examples, many of them from examination papers, greatly facilitate the understanding of the subject.

Design of Reinforced Concrete S. Chand Publishing

Advanced Concrete Technology A thorough grounding in the science of concrete combined with the latest developments in the rapidly evolving field of concrete technology In the newly revised second edition of Advanced Concrete Technology, a distinguished team of academics and engineers delivers a state-of-the-art exploration of modern and advanced concrete technologies developed during the last decade. The book combines the essential concepts and theory of concrete with practical examples of material design, composition, processing, characterization, properties, and performance. The authors explain, in detail, the hardware and software of concrete, and offer readers discussions of the most recent advances in concrete technology, including, but not limited to, concrete recycling, nanotechnology, microstructural simulation, additive manufacturing, and non-destructive testing methods. This newest edition of Advanced Concrete Technology provides a sustained emphasis on sustainable and novel technologies, like new binders, 3D printing, and other advanced materials and techniques. Readers will also find: A thorough introduction to concrete, including its definition and its historical evolution as a material used in engineering and construction In-depth explorations of the materials for making concrete and the properties of fresh concrete Comprehensive discussions of the material structure of concrete, hardened concrete, and advanced cementitious composites Fulsome treatments of concrete fracture mechanics, non-destructive testing in concrete engineering, and future trends in concrete Perfect for undergraduate and graduate students studying civil or materials engineering—especially those taking classes in the properties of concrete or concrete technologies—as well as engineers in the concrete industry. Advanced Concrete Technology, 2nd Edition will also earn a place in the libraries of civil and materials engineers working in the industry.