Reinforced Concrete By Ashok K Jain

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Reinforced Concrete By Ashok K Jain ***2022-07-02***

JOHNS COLBY

Dynamics of structures with MATLAB® applications Firewall Media

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46.Shrinkage and creep 47.Form-Work 48.Tests for cement and concrete

Reinforced Concrete Structures S. Chand Publishing

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 Routledge

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.

Reinforced Concrete Structures PHI Learning Pvt. Ltd.

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.

DESIGN OF REINFORCED CONCRETE

STRUCTURES Scientific Publishers
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.
Limit State Design of Concrete Structures Brooks/Cole
This book is designed for undergraduate and graduate students taking a first course in Dynamics of Structures, Structural Dynamics or Earthquake Engineering. It includes several topics on the theory of structural dynamics and the applications of this theo
Design of Reinforced Concrete Structures CRC Press
★Contents Introduction to Limit State Design * Materials * Limit Analysis of R.C. Structures * Limit State of Collapse- Flexure (PART-A : sSingly Reinforced Rectangular Beams. PART- B : Doubley Reomfprced Beams, PART - C : Flanged Beams) * Limit State of Collapse- Shear * Limit State of

Collapse- Bond * Limit State of Collapse- Torsion * Limit State of Serviceability and Detailing of Reinfforcement (PART- A : Limit State of Deflection, PART - B : Limit State of Cracking, PART - C : Detailing of R.C Structures) * Slab * Design of Beams * Column * Miscellaneous Problems * Apendiices * Index. ★Book Details: Author : S.R. Karve & V.L. Shah Edition: 8th: Reprint: 2018 ISBN: 9788190371711 Page No.: 829 Binding: Paperback

Building Construction New Age International

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.

Analysis and Design of FRP Reinforced Concrete Structures New Age International

Indian Standard Code Of Practice Is-456 For The Design Of Main And

Reinforced Concrete Was Revised In The Year 2000 To Incorporate Durability Criteria In The Design. As A Result Of It Many Codal Provisions Have Been Changed. Hence There Is Need To Train Engineering Students In Designing Reinforced Cement Concrete Structures As Per The Latest Code Of Is -456. With His Experience Of More Than 40 Years In Teaching, The Author Has Tried To Bring Out Students And Teachers Friendly Book On The Design Of Rcc Structures As Per Is-456: 2000.Rcc Design Is A Vast Subject. It Is Normally Taught In Two To Three Courses For Civil Engineering Students. This Book Is For The First Course In Rcc Design And Author Is Writing Another Book Advanced Rcc Design To Meet The Requirement Of Further Courses. This Book Deals With Design Philosophy And Design Of Various Structural Components Of Building. The Design Procedure Is Clearly Explained And Illustrated With Several Examples By Presenting The Solutions Step By Step In Details And With Neat Sketches Showing Reinforcement Details.

Basic Civil Engineering

CRC Press

Bureau of Indian Standards, Delhi made large number of changes and alterations in IS: 456-2000, Code of Practice for Plain and Reinforced concrete. Realizing the necessity and importance, authors have updated the complete text and presented this subject "Limit State Design of Concrete Structures". Ultimate Limit State (ULS-

conditions to be avoided) and serviceability Limit State (SLS- limits undesirable cracks and deflections) are two main essential elements of this subject. ULS includes `Limit State of Collapse in compression, in flexure, in shear and in torsion as sub elements. Whereas, SLS includes Limit State of Serviceability for deflections, cracking, fatigue, durability and vibrations as sub-elements. Features: (i) Text for life of concrete structures, fire resistance and corrosion. (ii) For all those, who carry-out their design using computer-programme, authors have given procedures (developed by them) for determining the stress in Hysd-steel bars corresponding to strain developed in concrete. *Reinforced Concrete Structure* Firewall Media 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. *Reinforced Concrete Design with FRP Composites* Firewall Media Reinforced Concrete Design has been written to impart in-depth knowledge to students about the subject. The appropriate Indian standard guidelines, suitable illustrations, figures and solved numerical problems have been included. The design techniques used by the engineers have been discussed with suitable examples to provide basic knowledge to the readers. A sufficient number of questions are given at the end of each chapter to enable the students prepare for the examinations. An additional chapter explaining the concepts and applications of earthquake-resistant design of structures has been included in the text. The fundamentals of computer-aided design and drawing using suitable illustrations have

been explained in the last chapter to enable the engineers to understand the practical applications of the subject. The book will serve the purpose of providing thorough knowledge to the students and practicing engineers in the subject. Salient features · Thorough understanding of design of reinforced concrete structures. · Knowledge of earthquake-resistant design of structures. · Computer-aided design fundamentals. · Analysis and design using STAAD · Drawing using AUTO CAD. · Illustrations containing reinforcement details. Contents: 1. Reinforced Concrete 2. Limit State Design 3. Limit State of Collapse – Flexure 4. Shear, Bond and Torsion 5. Limit State of Compression – Compression 6. Limit State of Serviceability 7. Design of Beams 8. Design of Slabs 9. Design of Stairs 10. Design of Foundations 11. Earthquake-Resistant Design of Structures 12. Computer-Aided Design of Structures About the Authors: Ravi Kumar Sharma, Professor in Civil Engineering Department, National Institute of Technology, Hamirpur (HP), obtained his PhD in 1999 from the Indian Institute of Technology, Roorkee. He is an experienced teacher, researcher and consultant with more than 35 years of experience. He has published 3 books, 125 research papers, completed 13 research projects and provided consultancy to more than 1500 construction projects. Rachit Sharma obtained his Masters

degree in structural engineering from Guru Nanak Engineering College Ludhiana. He is currently pursuing research in structural engineering at National Institute of Technology Jalandhar. He has published 10 research papers in journals and conference proceedings.

Reinforced Concrete Structures Vol. II Pearson Education India

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 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.

Studies on Reinforced Concrete Structural Walls PHI Learning Pvt. Ltd.

Some lessons are only learned from mistakes but, it‘s much cheaper to learn from someone else‘s mistakes than to have to do so from your own. Drawing on over fifty years of working with concrete structures, Robin

Whittle examines the problems which he has seen occur and shows how they could have been avoided. The first and largest part of the Reinforced Concrete Structures Abhishek Publications
this book include the following chapters: 1.Introduction 2.working stress method of design 3.shear, bond and development length 4. analysis and design of singly reinforced rectangular beams 5.analysis and design of doubly reinforced rectangular beams 6.design of one way slap 7.design of cantilever slab 8.design of circular slap 9.design of two way slab 10.design of singly and doubly reinforced T-beams 11.design of L-beams 12.design of continuous slabs 13.design of continuous beam 14.design of axially loaded RCC columns 15.isolated column footings and RCC footings for walls 16.design of stairs 17.design of corner balcony and coffer slab 18.limit state method 19.analysis and design of singly reinforced beam by limit state method 20.design of doubly reinforced beam by limit state method

Design of Industrial Structures CRC Press
Although the use of composites has increased in many industrial, commercial, medical, and defense applications, there is a lack of technical literature that examines composites in conjunction with concrete construction. Fulfilling the need for a comprehensive, explicit guide, Reinforced

Concrete Design with FRP Composites presents specific informat

Reinforced Concrete Design: Principles And Practice PHI Learning Pvt. Ltd.

People use lots of water for drinking, cooking and washing, but significantly more for producing things such as food, paper and cotton clothes. The water footprint is an indicator of water use that looks at both direct and indirect water use of a consumer or producer. Indirect use refers to the 'virtual water' embedded in tradable goods and commodities, such as cereals, sugar or cotton. The water footprint of an individual, community or business is defined as the total volume of freshwater that is used to produce the goods and services consumed by the individual or community or produced by the business. This book offers a complete and up-to-date overview of the global standard on water footprint assessment as developed by the Water Footprint Network. More specifically it: o Provides a comprehensive set of methods for water footprint assessment o Shows how water footprints can be calculated for individual processes and products, as well as for consumers, nations and businesses o Contains detailed worked examples of how to calculate green, blue and grey water footprints o Describes how to assess the sustainability of the aggregated water footprint within a river basin or the water footprint of a specific product o Includes an

extensive library of possible measures that can contribute to water footprint reduction

Building Construction Firewall Media **Limit State Theory and Design of Reinforced Concrete** Laxmi Publications **Design of Concrete Structures** Firewall Media