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LIMIT STATE DESIGN OF REINFORCED CONCRETE

Firewall Media

REINFORCED CONCRETE STRUCTURES VOL. I

Firewall Media

COMPREHENSIVE RCC.DESIGNS

Laxmi Publications CONTENTS: Part 1:Working Stress Method 1.Introduction 2.Theory of reinforced beams and Slabs 3.Shear and bond 4.Torsion 5.Doubly reinforced beams 6. T and L-Beams 7.Design of beams and Slabs 8.Design of stair cases 9.Reinforced brick and hollow tile roofs 10.Two-way slabs 11.Circular slabs 12.Flat slabs 13.Axially loaded columns 14.Combined direct and bending stresses 15.Continuous and isolated footings 16.Combined footings 17.Pile foundations 18.Retaining Walls Part 11: Water Tanks 19.Domes 20.Beams curved in plan 21.Water tanks-1 Simple cases 22.Water tanks-11 Circular & INTZE Tanks 23.Water tanks-111: Rectangular tanks 24.Water tanks-IV: Underground tanks Part 111:Miscellaneous Structures 25.Reinforced concrete pipes 26.Bunkers and silos 27.Chimneys 28.Portal frames 29.Building frames Part IV:Concrete Bridges 30. Aqueducts and box culverts 31.Concrete Bridges Part V: Limit State Design 32.Design concepts 33.Singly reinforced section 34.Doubly reinforced sections 35.T and L-Beams 36.Shear bond and torsion 37.Design of beams and slabs 38.Axially loaded columns 39.Columns with Uniaxial and Biaxial bending 40.Design of stair cases 41.Two way slabs 42.Circular slabs 43.Yield Line theory and design of slabs 44FOUNDATIONS Part IV:Prestressed concrete and Miscellaneous Topics 45.Prestressed concrete 46.Shrinkage and creep 47.Form-Work 48.Tests for cement and concrete

FOUNDATION ENGINEERING

PHI Learning Pvt. Ltd. The book is primarily intended for undergraduate and postgraduate students of civil engineering. It is also useful for the students of AMIE and a diploma course in civil engineering.The book is planned as a text for the first course in foundation engineering and presents the principles and practices of selection and design of foundation for structures in a simple and concise manner. Codal references have been given to acquaint the students with prevalent methodologies adopted in practise in the country. The book provides topics of wide interest such as machine foundation, foundation on problematic soil and ground improvement techniques. A large number of solved examples and multiple choice questions are included to help readers for easy understanding of the principle of design and memorising important details for practical application. The information contained in the book is also helpful for the scholars pursuing research study and practicing engineers confronted in the field. Key Features • Simple and systematic presentation of the subject matter. • A large number of solved and unsolved problems for practice. • MCQs with answers to help students appearing in competitive examinations—GATE, IES, IAS etc. • Annexure for ready references in different allied engineering topics.

DESIGN OF FOUNDATION SYSTEMS

PRINCIPLES AND PRACTICES

Alpha Science Int'l Ltd. This textbook first published in 1992 now appearing in its third edition retains the best features from the earlier editions and adds significantly to the contents, which include developments in the 1990s.

REINFORCED CONCRETE DESIGN: PRINCIPLES AND PRACTICE

New Age International 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.

REINFORCED CONCRETE DESIGN

FOUNDATION DESIGN: PRINCIPLES AND PRACTICES

PEARSON NEW INTERNATIONAL EDITION

Pearson Higher Ed For undergraduate/graduate-level foundation engineering courses. Covers the subject matter thoroughly and systematically, while being easy to read. Emphasizes a thorough understanding of concepts and terms before proceeding with analysis and design, and carefully integrates the principles of foundation engineering with their application to practical design problems.

DESIGN AND CONSTRUCTION FAILURES

LESSONS FROM FORENSIC INVESTIGATIONS

McGraw-Hill Companies Expert guidance from an engineer with 40 years' experience investigating and analyzing distressed and failed structures. Pinpointing both the causes and the consequences of errors in design, construction, and maintenance. Kaminetzky discusses numerous types of structures and construction materials, identifying the critical flaws that have led to failure time and time again. Includes detailed case histories of building failures and collapses, and abundant photographs and drawings. Annotation copyrighted by Book News, Inc., Portland, OR

FOUNDATION DESIGN

THEORY AND PRACTICE

John Wiley & Sons In Foundation Design: Theory and Practice, Professor N. S. V. Kameswara Rao covers the key aspects of the subject, including principles of testing, interpretation, analysis, soil-structure interaction modeling, construction guidelines, and applications to rational design. Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own. Throughout the book the emphasis is on practical application, training readers in actual design procedures using the latest codes and standards in use throughout the world. Presents updated design procedures in light of revised codes and standards, covering: American Concrete Institute (ACI) codes Eurocode 7 Other British Standard-based codes including Indian codes Provides background materials for easy understanding of the topics, such as: Code provisions for reinforced concrete Pile design and construction Machine foundations and construction practices Tests for obtaining the design parameters Features subjects not covered in other foundation design texts: Soil-structure interaction approaches using analytical, numerical, and finite element methods Analysis and design of circular and annular foundations Analysis and design of piles and groups subjected to general loads and movements Contains worked out examples to illustrate the analysis and design Provides several problems for practice at the end of each chapter Lecture materials for instructors available on the book's companion website Foundation Design is designed for graduate students in civil engineering and geotechnical engineering. The book is also ideal for advanced undergraduate students, contractors, builders, developers, heavy machine manufacturers, and power plant engineers. Students in mechanical engineering will find the chapter on machine foundations helpful for structural engineering applications. Companion website for instructor resources: www.wiley.com/go/rao

FOUNDATION ENGINEERING

PHI Learning Pvt. Ltd. Foundation Engineering is of prime importance to undergraduate and postgraduate students of civil engineering as well as to practising engineers. For, there is no construction - be it buildings (government, commercial and residential), bridges, highways, or dams - that does not draw from the principles and application of this subject. Unlike many textbooks on Geotechnical Engineering that deal with both Soil Mechanics and Foundation Engineering, this text gives an exclusive treatment and an indepth analysis of Foundation Engineering. What distinguishes the text is that it not merely equips the students with the necessary knowledge for the course and examination, but provides a solid foundation for further practice in their profession later. In addition, as the book is based on the Codes prescribed by the Bureau of Indian Standards, students of Indian universities will find it particularly useful. The author is specialized in both Soil Mechanics and Structural Engineering; he studied Soil Mechanics under the guidance of Prof. Terzaghi and Prof. Casagrande of Harvard University - the pioneers of the subject. Similarly, he studied Structural Engineering under Prof. A.L.L. Baker of Imperial College, London, the pioneer of Limit State Design. These specializations coupled with over 50 years of teaching experience of the author make this text authoritative and exhaustive. Intended as a text for undergraduate (Civil Engineering) and postgraduate (Geotechnical Engineering and Structural Engineering) students, the book would also be found highly useful to practising engineers and young academics teaching the course.

DESIGN OF REINFORCED CONCRETE FOUNDATIONS

PHI Learning Pvt. Ltd.

TIME-SAVER STANDARDS FOR ARCHITECTURAL DESIGN DATA

New York : McGraw-Hill

EXTRACTS ON REINFORCED CONCRETE DESIGN SELECTED FROM CONCRETE, PLAIN AND REINFORCED ...

CIVIL ENGINEERING ALL-IN-ONE PE EXAM GUIDE: BREADTH AND DEPTH, THIRD EDITION

McGraw Hill Professional Fully updated for the latest standards and exam content, this complete guide is the only resource engineers need to pass the Civil Engineering PE Exam the first time. Civil Engineering All-in-One PE Exam Guide, Third Edition is the only resource an engineer needs to pass the PE-CIVIL exam administered by the National Council of Examiners in Engineering and Surveying (NCEES). This exam is required by all 50 states for PE certification. The book is formatted to mirror the five subdisciplines of the exam--Structural, Geotechnical, Water Resources, Transportation, and Construction—and follows accepted PE syllabus content. End-of-chapter problems and solutions help you prepare for the exam questions. The third edition has been revised to include changes in design standards for reinforced concrete, structural steel, highway design, and traffic engineering. Chapters on structural engineering are expanded to help you prepare for the new Structural PE exam and a brand-new chapter on Building Analysis and Design is included. New chapter on Building Analysis and Design Updated for changes in codes, design standards, and PE syllabus End-of-chapter practice problems and solutions Covers all material on the NCEES PE Civil Exam Formatted as both a study tool and an on-the-job reference Updated structural chapters will aid those preparing for the 16-hour Structural PE Exam

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN DEVELOPING COUNTRIES, AUGUST 22-25, 1977, BANGKOK

GEOTECHNICAL ENGINEERING

A PRACTICAL PROBLEM SOLVING APPROACH

J. Ross Publishing Geotechnical Engineering: A Practical Problem Solving Approach covers all of the major geotechnical topics in the simplest possible way adopting a hands-on approach with a very strong practical bias. You will learn the material through worked examples that are representative of realistic field situations whereby geotechnical engineering principles are applied to solve real-life problems.

A TREATISE ON CONCRETE, PLAIN AND REINFORCED

MATERIALS, CONSTRUCTION, AND DESIGN OF CONCRETE AND REINFORCED CONCRETE

GEOTECHNICAL CENTRIFUGE TECHNOLOGY

CRC Press This book provides a thorough review of this powerful and sophisticated technique for modelling soil structure interactions. It has been written by an international team of authors.

ARCHITECTURAL ENGINEERING DESIGN: STRUCTURAL SYSTEMS

McGraw Hill Professional "Includes one CD of computerized formulas."

COMPUTERS IN DEVELOPING COUNTRIES

A BIBLIOGRAPHY

INDIAN SCIENCE ABSTRACTS

SHALLOW FOUNDATIONS

DISCUSSIONS AND PROBLEM SOLVING

John Wiley & Sons Shallow Foundations: Discussions and Problem Solving is written for civil engineers and all civil engineering students taking courses in soil mechanics and geotechnical engineering. It covers the analysis, design and application of shallow foundations, with a primary focus on the interface between the structural elements and underlying soil. Topics such as site investigation, foundation contact pressure and settlement, vertical stresses in soils due to foundation loads, settlements, and bearing capacity are all fully covered, and a chapter is devoted to the structural design of different types of shallow foundations. It provides essential data for the design of shallow foundations under normal circumstances, considering both the American (ACI) and the European (EN) Standard Building Code Requirements, with each chapter being a concise discussion of critical and practical aspects. Applications are highlighted through solving a relatively large number of realistic problems. A total of 180 problems, all with full solutions, consolidate understanding of the fundamental principles and illustrate the design and application of shallow foundations.

DESIGN OF STRUCTURAL ELEMENTS

CONCRETE, STEELWORK, MASONRY AND TIMBER DESIGNS TO BRITISH STANDARDS AND EUROCODES, THIRD EDITION

CRC Press This third edition of a popular textbook is a concise single-volume introduction to the design of structural elements in concrete, steel, timber, masonry, and composites. It provides design principles and guidance in line with both British Standards and Eurocodes, current as of late 2007. Topics discussed include the philosophy of design, basic structural concepts, and material properties. After an introduction and overview of structural design, the book is conveniently divided into sections based on British Standards and Eurocodes.

IS SP 34 : HANDBOOK ON CONCRETE REINFORCEMENT AND DETAILING

DESIGN OF REINFORCED CONCRETE

John Wiley & Sons Incorporated Publisher Description

TEMPORARY STRUCTURE DESIGN

John Wiley & Sons A comprehensive guide to temporary structures in construction projects Temporary Structure Design is the first book of its kind, presenting students and professionals with authoritative coverage of the major concepts in designing temporary construction structures. Beginning with a review of statistics, it presents the core topics needed to fully comprehend the design of temporary structures: strength of materials; types of loads on temporary structures; scaffolding design; soil properties and soil loading; soldier beam, lagging, and tiebacks; sheet piling and strutting; pressure and forces on formwork and falsework; concrete formwork design; falsework; bracing and guying; trestles and equipment bridges; and the support of existing structures. Temporary structures during construction include scaffolding, formwork, shoring, ramps, platforms, earth-retaining structures, and other construction structures that are not part of the permanent installation. These structures are less regulated and monitored than most other parts of the construction process, even though they are often supporting tons of steel or concrete—and the safety of all workers on the site depends on these structures to perform as designed. Unfortunately, most tragic failures occur during construction and are usually the result of improperly designed, constructed, and/or maintained temporary structures. Temporary Structure Design fills an important need in the literature by providing a trusted, comprehensive guide to designing temporary construction structures. Serves as the first book to provide a design-oriented approach to the design of temporary structures Includes coverage of the various safety considerations inherent in temporary structure design and construction Provides information on estimating cost and schedules for these specialized structures Covers formwork and falsework, as well as personnel protection, production support, environmental protection, and foundational structures If you're a student or a professional working in the field of construction or structural engineering, Temporary Structure Design is a must-have resource you'll turn to again and again.

APPLIED MECHANICS REVIEWS

CONCRETE STRUCTURES

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.

A TRETISE ON CONCRETE PLAIN AND REINFORCED

REINFORCED CONCRETE DESIGN

ANALYSIS AND DESIGN OF BRIDGES

Springer The Proceedings of the NATO Advanced Study Institute on Analysis and Design of Bridges held at Eşme, Izmir, Turkey from 28 June 1982 to 9 July 1982 are contained in the present volume. The Advanced Study Institute was attended by 37 lecturers and participants from 10 different countries. The Organizing Committee consisted of Professors P. Gtilkan, A. C. Scordelis, S. T. Wasti and 9. Yl. Imaz. The guidelines set by NATO for the Advanced Study Institute require it to serve not only as an efficient forum for the dissemination of available advanced knowledge to a selected group of qualified people but also as a platform for the exploration of future research possibilities in the scientific or engineering areas concerned. The main topics covered by the present Advanced Study Institute were the mathematical modelling of bridges for better analysis and the scientific assessment of bridge behaviour for the introduction of improved design procedures. It has been our observation that as a result of the range and depth of the lectures presented and the many informal discussions that took place, ideas became fissile, the stimulus never flagged and many gaps in the engineering knowledge of the participants were "bridged". Here we particularly wish to mention that valuable informal presentations of research work were made during the course of the Institute by Drs. Friedrich, Karaesmen, Lamas and Parker.

STEEL DESIGN

Cengage Learning STEEL DESIGN covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

NCHRP REPORT

HANDBOOK OF CONCRETE ENGINEERING

Springer

FOUNDATION ANALYSIS AND DESIGN

The revision of this best-selling text for a junior/senior course in Foundation Analysis and Design now includes an IBM computer disk containing 16 compiled programs together with the data sets used to produce the output sheets, as well as new material on sloping ground, pile and pile group analysis, and procedures for an improved analysis of lateral piles. Bearing capacity analysis has been substantially revised for footings with horizontal as well as vertical loads. Footing design for overturning now incorporates the use of the same uniform linear pressure concept used in ascertaining the bearing capacity. Increased emphasis is placed on geotextiles for retaining walls and soil nailing.

18 YEARS GATE CIVIL ENGINEERING TOPIC-WISE SOLVED PAPERS (2000 - 17) WITH 4 ONLINE PRACTICE SETS 3RD EDITION

Disha Publications 18 years GATE Civil Engineering Topic-wise Solved Papers (2000 - 17): This new edition is empowered with 4 Online Practice Sets with InstaResults & detailed Solutions. The book includes Numerical Answer Qns. The book covers fully solved past 18 years question papers from the year 2000 to the year 2017. The salient features are: • The book has 3 sections - General Aptitude, Engineering Mathematics and Technical Section. • Each section has been divided into Topics. Aptitude - 2 parts divided into 9 Topics, Engineering Mathematics - 6 Topics and Technical Section - 14 Topics. • Each chapter has 3 parts - Quick Revision Material, Past questions and the Solutions. • The Quick Revision Material lists the main points and the formulas of the chapter which will help the students in revising the chapter quickly. • The Past questions in each chapter have been divided into 5 types: 1. Conceptual MCQs 2. Problem based MCQs 3. Common Data Type MCQs 4. Linked Answer Type MCQs 5. Numerical Answer Questions • The questions have been followed by detailed solutions to each and every question. • In all the book contains 1700+ MILESTONE questions for GATE Civil Engineering.

ADVANCED REINFORCED CONCRETE DESIGN

CBS Publishers & Distributors Pvt Limited, India

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05) AND COMMENTARY (ACI 318R-05)

American Concrete Institute

BRIDGE ENGINEERING

SUBSTRUCTURE DESIGN

CRC Press With chapters culled from the acclaimed Bridge Engineering Handbook, Bridge Engineering: Substructure Design focuses on the various components comprising and affecting bridge substructures. These include bearings, piers and columns, towers, abutments and retaining structures, footings and foundations, and bridge hydraulics. For each component, the