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Structural Design James R. Underwood
2007-06-22

Written for the practicing architect, *Structural Design* addresses the process on both a conceptual and a mathematical level. Most importantly, it helps architects work with structural consultants and understand all the

necessary considerations when designing structural systems. Using a minimum of simple math, this book shows you how to make correct design calculations for structures made from steel, wood, concrete, and masonry. What's more, this edition has been completely updated to reflect the latest design methods and codes,

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including LRFD for steel design. The book was also re-designed for easy navigation. Essential principles, as well as structural solutions, are visually reinforced with hundreds of drawings, photographs, and other illustrations--making this book truly architect-friendly.

Structural Concrete - M. Nadim Hassoun

2012-06-14

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

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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 - N. Subramanian 2014-01-16

This book provides an extensive coverage of the design of reinforced concrete structures in accordance with the current Indian code of practice (IS 456: 2000). As some of the Indian code provisions are outdated, the American code provisions are provided, wherever necessary. In addition, an attempt is made to integrate the provisions of IS 456 with earthquake code (IS 13920), as more than 60% of India falls under moderate or severe earthquake zones. The text is based on the limit state approach to design and covers areas such as the properties of concrete, design of various structural elements such as compression and tension members, beams & slabs, and design for flexure, shear torsion, uni-axial and biaxial bending and

interaction of these forces. Each chapter features solved examples, review questions, and practice problems as well as ample illustrations that supplement the text. An exhaustive list of references as well as appendices on strut-and-tie-method, properties of soils, and practical tips add value to the rich contents of book.

Structural Engineer's Pocket Book British Standards Edition - Fiona Cobb 2020-12-17

The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables, data, facts and formulae needed for scheme design to British Standards by structural engineers in a handy-sized format. Bringing together data from many sources into a compact, affordable pocketbook, it saves valuable time spent tracking down information needed regularly. This second edition is a companion to the more recent Eurocode third edition. Although small in size, this book contains the facts and figures needed for preliminary design whether in the office or on-site. Based on UK

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conventions, it is split into 14 sections including geotechnics, structural steel, reinforced concrete, masonry and timber, and includes a section on sustainability covering general concepts, materials, actions and targets for structural engineers.

Reinforced Concrete Design - William Henry Mosley 1990

Graphical Methods in Structural Analysis - D.S. Prakash 1997-04

The book deals with the graphical analysis of various structures such as beams, plane and space trusses, and arches. Deflection analysis of beams and plane trusses is also included in this book. Mohr's stress and strain circles are discussed along with the extension to three-dimensional problems.

A Practical Course in Advanced Structural Design - Tim Huff 2021-04-01

A Practical Course in Advanced Structural Design is written from the perspective of a

practicing engineer, one with over 35 years of experience, now working in the academic world, who wishes to pass on lessons learned over the course of a structural engineering career. The book covers essential topics that will enable beginning structural engineers to gain an advanced understanding prior to entering the workforce, as well as topics which may receive little or no attention in a typical undergraduate curriculum. For example, many new structural engineers are faced with issues regarding estimating collapse loadings during earthquakes and establishing fatigue requirements for cyclic loading – but are typically not taught the underlying methodologies for a full understanding. Features: Advanced practice-oriented guidance on structural building and bridge design in a single volume. Detailed treatment of earthquake ground motion from multiple specifications (ASCE 7-16, ASCE 4-16, ASCE 43-05, AASHTO). Details of calculations for the advanced student as well as the

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practicing structural engineer. Practical example problems and numerous photographs from the author's projects throughout. A Practical Course in Advanced Structural Design will serve as a useful text for graduate and upper-level undergraduate civil engineering students as well as practicing structural engineers.

Study of Engineering and Career - J Vinay Kumar 2018-04-20

There are many ways to apply knowledge to achieve a successful career. Different people have used different ideologies get to the top. What are the characteristics that will help you achieve success? This book caters not only to students stepping into the engineering fields or the corporate world for the first time but also to those who are stuck in the wrong profession. The book highlights the importance of knowing your field of education, the importance of personality, finding the right opportunity in different fields of work, choosing the right first employer, and other important decisions related

to your career. This book is an essential read for anyone who wants to enter the field of engineering. The volume includes a good number of illustrations with detailed notes.

Design of Concrete Structures - Arthur H. Nilson 2011-06-01

The 14th edition of the classic text, Design of Concrete Structures, is completely revised using the newly released 2008 ACI (American Concrete Institute) 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 updated examples and homework problems. New material on slender columns, seismic design, anchorage using headed deformed bars, and reinforcing slabs for shear using headed studs has been added. The notation has been

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thoroughly updated to match changes in the ACI Code. 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, including an extensive presentation of slabs, footings, foundations, and retaining walls.

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) - S.S. Bhavikatti 2009

So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and

illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

Elementary Structural Design & Drawing (In 3 Vols.) Vol. I : Structural Design & Drawing - D. Krishnamurthy 2008-02-01

Design of Concrete Structures Arthur H. Nilson 1997

This updated student text aims to establish a firm understanding of the behaviour of reinforced concrete structures, and to develop proficiency in the methods used in current structural design practice. The basic mechanisms of structural concrete and methods for the design of individual members for bending, shear, axial forces and torsion, and in

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addition the text provides much detail related to applications such as the various building systems. Step-by-step design procedures are given to guide the student through the complex methodology of current design. These can easily be converted into flow charts to aid in computer programming.

Examples of the Design of Reinforced Concrete Buildings to BS8110 - C.E. Reynolds
2017-12-21

The latest edition of this well-known book makes available to structural design engineers a wealth of practical advice on effective design of concrete structures. It covers the complete range of concrete elements and includes numerous data sheets, charts and examples to help the designer. It is fully updated in line with the relevant British Standards and Codes of Practice.

Construction Management and Design of Industrial Concrete and Steel Structures - Mohamed A. El-Reedy
2019-08-30

The recent worldwide boom in industrial construction and the corresponding billions of dollars spent every year in industrial, oil, gas, and petrochemical and power generation project, has created fierce competition for these projects. Strong management and technical competence will bring your projects in on time and on budget. An in-depth exploration of both these aspects and the resulting challenges, Construction Management and Design of Industrial Concrete and Steel Structures provides a practical guide to the design of reinforced concrete and steel structures and foundations in industrial projects. Renowned expert Mohamed A. El-Reedy covers the entire industrial construction process, from project management to design and construction to sign off and providing a maintenance plan. Highlighting the differences between industrial construction and real estate or residential construction, he examines every phase and every role, from managerial to technical. He includes

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cases from industrial projects and covers the international technical practices, codes, and standards used in steel or concrete onshore or offshore projects. The book provides up-to-date methodologies in structure analysis, geotechnical studies, and international special codes and standards for industrial structures such as tanks, foundation under towers, machines, and special structures in industrial projects. It also examines the safety and economic benefits of developing a structure integrity management system. When a project has a budget that seems as huge as the structure itself, the client, engineering firm, and contractor must work together to achieve success. Discussing the interface between these three main partners, this book outlines strategies for checking the design and controlling a project in all its phases.

Design of Reinforced Concrete, Jack C.

McCormac 2005

Publisher Description

Principles of Structural Design, S. Gupta
2019-06-17

Timber, steel, and concrete are common engineering materials used in structural design. Material choice depends upon the type of structure, availability of material, and the preference of the designer. The design practices the code requirements of each material are very different. In this updated edition, the elemental designs of individual components of each material are presented, together with theory of structures essential for the design. Numerous examples of complete structural designs have been included. A comprehensive database comprising materials properties, section properties, specifications, and design aids, has been included to make this essential reading.

Structural Design & Drawing: 3Rd Edition -

N Krishna Raju 2009

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

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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 chosen examples, many of them from examination papers, greatly facilitate the understanding of the subject

Advanced Reinforced Concrete Design N. K. Raju 2016-03-30

Reinforced Concrete Design - Ravi Kumar Sharma 2021-11

Concrete Structures, Part 2 Zahid Ahmad Siddiqi 2020-02-01

This book is prepared according to the ACI Code 2019 for buildings and AASHTO LRFD Specifications for Bridges 2007. The units used throughout the presentation are the SI units, however, the expressions and examples are also given in US Customary units in the starting

chapters to keep continuity with the traditional system of units. It is tried that the three main phases of structural design, namely load determination, design calculations and detailing are introduced to the beginner. This book is useful with the 2nd part of the same book. The comments on the previous editions of the book sent by colleagues, fellow engineers and students are incorporated in this edition. All persons who contributed in this regard are greatly acknowledged. Suggestions for further improvement of the presentation will be appreciated and will be incorporated in the future editions.

Concrete Structures, 3rd Edition Zahid Ahmad Siddiqi

This book is prepared according to the 2014 ACI Code for buildings and AASHTO LRFD Specifications for bridges. The units used throughout the presentation are the SI units, however, the expressions and examples are also given in US Customary units in the starting

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chapters to keep continuity with the traditional system of units. It is tried that the three main phases of structural design, namely load determination, design calculations and detailing are introduced to the beginner. This book is useful with the 2nd part of the same book. After the printing of the first and second editions, the comments send by colleagues, fellow engineers and students are acknowledged with thanks. Suggestions for further improvement of the presentation will be highly appreciated and will be incorporated in the future editions.

Building Structures Illustrated Francis D. K. Ching 2014-03-04

A new edition of Francis D.K. Ching's illustrated guide to structural design Structures are an essential element of the building process, yet one of the most difficult concepts for architects to grasp. While structural engineers do the detailed consulting work for a project, architects should have enough knowledge of structural theory and analysis to design a building. Building

Structures Illustrated takes a new approach to structural design, showing how structural systems of a building—such as an integrated assembly of elements with pattern, proportions, and scale—are related to the fundamental aspects of architectural design. The book features a one-stop guide to structural design in practice, a thorough treatment of structural design as part of the entire building process, and an overview of the historical development of architectural materials and structure. Illustrated throughout with Ching's signature line drawings, this new Second Edition is an ideal guide to structures for designers, builders, and students. Updated to include new information on building code compliance, additional learning resources, and a new glossary of terms Offers thorough coverage of formal and spatial composition, program fit, coordination with other building systems, code compliance, and much more Beautifully illustrated by the renowned Francis D.K. Ching

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Building Structures Illustrated, Second Edition is the ideal resource for students and professionals who want to make informed decisions on architectural design.

Reinforced Concrete Design: Principles And Practice Raju N. Krishna 2007

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.

Elementary Structural Design (In 3 Vols.)

Vol. II : Concrete Structure - D.

Krishnamurthy 2006-02-01

Design of Structural Elements - Chanakya

Arya 2009-05-07

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.

Structural Design - James R. Underwood 1998

A user-friendly reference on the design and technology of building structures. The authors

provide a holistic approach to structural design by covering all of the primary structural materials (steel, wood, reinforced concrete, and masonry) and combining architectural form, spatial organization, and load configurations.

DESIGN OF CONCRETE STRUCTURES - J. N. BANDYOPADHYAY 2008-07-07

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.

Robust Resilient Resistant Jakob Schoof 2021-05

Reinforced concrete is the go-to powerhouse of modern construction: no other load-bearing building material is as malleable with similarly

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good noise and fire protection properties. The book illustrates this versatility with around 20 building examples and specialist articles from the fields of structural and civil engineering. In-depth project descriptions and numerous detailed drawings show the design and construction process of these halls, bridges, railway stations, and office buildings. Articles informed by research and practice also portray a building material in transformation. Still, the reinforced concrete buildings of earlier decades also constitute a legacy, and their restoration and maintenance continue to fascinate us to this day. The book also takes a critical look at the handling of this building material.

Design of Prestressed Concrete - Nilson
1987-04-13

Practical Design of Reinforced Concrete Buildings - Syed Mehdi Ashraf 2017

This book will provide comprehensive, practical knowledge for the design of reinforced concrete

buildings. The approach will be unique as it will focus primarily on the design of various structures and structural elements as done in design offices with an emphasis on compliance with the relevant codes. It will give an overview of the integrated design of buildings and explain the design of various elements such as slabs, beams, columns, walls, and footings. It will be written in easy-to-use format and refer to all the latest relevant American codes of practice (IBC and ASCE) at every stage. The book will compel users to think critically to enhance their intuitive design capabilities.

Practical Design of Reinforced Concrete Buildings - Syed Mehdi Ashraf 2017-11-10

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Design of Steel Structures - Elias G. Abu-Saba
2012-12-06

This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels. Although it has been developed from lecture notes given in structural steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures. Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester.

Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At the undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

Reinforced Concrete - Edward G. Nawy 2003
"The book includes an extended appendix of

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monograms and tables using the new load factors, strength reduction factors, and limit strains design procedures mandated by the new ACI 318-05 code. Comprehensive sketches and sets of working drawings, end-of-chapter problems, pictures of actual structural tests to failure, and flowcharts appear throughout the book."--BOOK JACKET.

Seismic Design of Steel Structures - Victor Gioncu 2013-11-20

Providing real world applications for different structural types and seismic characteristics, Seismic Design of Steel Structures combines knowledge of seismic behavior of steel structures with the principles of earthquake engineering. This book focuses on seismic design, and concentrates specifically on seismic-resistant steel structures. Drawing on experience from the Northridge to the Tohoku earthquakes, it combines understanding of the seismic behavior of steel structures with the principles of earthquake engineering. The book

focuses on the global as well as local behavior of steel structures and their effective seismic-resistant design. It recognises different types of earthquakes, takes into account the especial danger of fire after earthquake, and proposes new bracing and connecting systems for new seismic resistant steel structures, and also for upgrading existing reinforced concrete structures. Includes the results of the extensive use of the DUCTROCT M computer program, which is used for the evaluation of the seismic available ductility, both monotonic and cyclic, for different types of earthquakes Demonstrates good design principles by highlighting the behavior of seismic-resistant steel structures in many applications from around the world Provides a methodological approach, making a clear distinction between strong and low-to-moderate seismic regions This book serves as a reference for structural engineers involved in seismic design, as well as researchers and graduate students of seismic structural analysis

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and design.

Structural Design and Drawing - N. Krishna Raju 2005

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 STRUCTURES - M. L. GAMBHIR 2008-02-16

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.

Design of Industrial Structures - Ashoke Kumar Dasgupta 2021-11-26

This book bridges the gap between academic and professional field pertaining to design of industrial reinforced cement concrete and steel

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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.

Structural Design for Fire Safety Andrew H. Buchanan 2017-01-30

Structural Design for Fire Safety, 2nd edition
Andrew H. Buchanan, University of Canterbury,
New Zealand Anthony K. Abu, University of
Canterbury, New Zealand A practical and
informative guide to structural fire engineering
This book presents a comprehensive overview of
structural fire engineering. An update on the

first edition, the book describes new developments in the past ten years, including advanced calculation methods and computer programs. Further additions include: calculation methods for membrane action in floor slabs exposed to fires; a chapter on composite steel-concrete construction; and case studies of structural collapses. The book begins with an introduction to fire safety in buildings, from fire growth and development to the devastating effects of severe fires on large building structures. Methods of calculating fire severity and fire resistance are then described in detail, together with both simple and advanced methods for assessing and designing for structural fire safety in buildings constructed from structural steel, reinforced concrete, or structural timber. Structural Design for Fire Safety, 2nd edition bridges the information gap between fire safety engineers, structural engineers and building officials, and it will be useful for many others including architects, code

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writers, building designers, and firefighters. Key features: • Updated references to current research, as well as new end-of-chapter questions and worked examples. • Authors experienced in teaching, researching, and applying structural fire engineering in real buildings. • A focus on basic principles rather than specific building code requirements, for an international audience. An essential guide for structural engineers who wish to improve their understanding of buildings exposed to severe fires and an ideal textbook for introductory or advanced courses in structural fire engineering.

FUNDAMENTALS OF REINFORCED CONCRETE DESIGN - M. L. GAMBHIR

2006-10-07

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 - M. Nadim Hassoun
2012-05

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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.