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Design of Prestressed Concrete - Arthur H. Nilson 1987 This revision of a popular text discusses the behavior, analysis, and design of prestressed concrete structures. Changes in the Second Edition include a new emphasis on partially prestressed concrete members, flexural strength calculations, deflection calculations, crack width calculations, along with new information on high strength materials, and more. Develops an understanding of design methods used in practice and familiarity with the
important provisions of the governing 1983 Building Code of the American Concrete Institute. Balance of theory and practice provides a clear survey of design principles. Problems at the end of every chapter illustrate concepts.

**Design of Prestressed Concrete Structures**
Arthur H. Nilson 1981

**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 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.

**Prestressed Concrete Designer's Handbook**
P.W. Abeles 1981-01-01 The third edition of this authoritative handbook provides the structural designer with comprehensive guidance on prestressed concrete and its effective use, covering materials, behaviour, analysis and design of prestressed elements. It includes numerous examples, design charts and details of post-tensioning systems.
Post-Tensioned Concrete Floors-Martin Williams 2019-08-30 Post-tensioning is the most versatile form of pre-stressing, a technique which enables engineers to make the most effective use of the material properties of concrete, and so to design structural elements which are strong, slender and efficient. Design in post-tensioned concrete is not difficult and, if done properly, can contribute significantly to the economy and the aesthetic qualities of a building. Post-tensioned floors have found widespread use in office buildings and car park structures, and are also frequently employed in warehouses and public buildings. However, in spite of this, most prestressed concrete texts devote comparatively little attention to floors, concentrating instead on beam elements. This book answers the need for a comprehensive treatment of post-tensioned floor design.


Reinforced Concrete Fundamentals-Phil M. Ferguson 1988-01-18 This Fifth Edition maintains the basic Ferguson approach in which design procedures stem from and provide the basis for a clear understanding of the behavior of reinforced concrete. Behavior of reinforced concrete members and assemblages at every load stage is illustrated with illustrations and photos,
and calculation models that relate to the physical behaviors are provided to help students and practitioners recognize and assess various design situations. To avoid confusion, many of the examples now use customary or English units, rather than SI units as in the Fourth Edition. This edition conforms to the technical changes in the '83 and '86 revisions to the ACI Building Code. In this edition, service load analysis of stresses, computations of deflection and distribution of reinforcement to control crack widths have been incorporated with the sections that treat analysis and design of flexural members. Material relating to seismic design has been revised and expanded, and more emphasis has been placed on developing conceptual models for design.

**Design of Prestressed Concrete Structures**-Tung Yen Lin 1982

**Design of Prestressed Concrete**-Nilson 1987-04-13

**Structural Concrete**-M. Nadim Hassoun 2012-05-01 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.

**Prestressed Concrete**-Charles W. Dolan 2018-11-14 This textbook imparts a firm understanding of the behavior of prestressed concrete and how it relates to design based on the 2014 ACI Building Code. It presents the fundamental behavior of prestressed concrete.
and then adapts this to the design of structures. The book focuses on prestressed concrete members including slabs, beams, and axially loaded members and provides computational examples to support current design practice along with practical information related to details and construction with prestressed concrete. It illustrates concepts and calculations with Mathcad and EXCEL worksheets. Written with both lucid instructional presentation as well as comprehensive, rigorous detail, the book is ideal for both students in graduate-level courses as well as practicing engineers.

**Prestressed concrete**-N. Krishna Raju 2006-12-01

**Prestressed Concrete Design**-M.K. Hurst 2017-12-21 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 Prestressed Concrete Structures**-T.Y. Lin 2013

**Design of Prestressed Concrete**-R. I. Gilbert
1990-09-13 Providing both an introduction to basic concepts and an in-depth treatment of the most up-to-date methods for the design and analysis of concrete structures, "Design of Prestressed Concrete" will service the needs of both students and professional engineers.

**Connection of Simple-span Precast Concrete Girders for Continuity**-Richard A. Miller (P.E.) 2004-01-01

**Design of Reinforced Concrete**-Jack C. McCormac 2005 "Introduction -- Flexural analysis of beams -- Strength analysis of beams according to ACI code -- Design of rectangular beams and one-way slabs -- Analysis and design of T beams and doubly reinforced beams -- Serviceability -- Bond, development lengths, and splices -- Shear and diagonal tension -- Introduction to columns -- Design of short columns subject to axial load and bending -- Slender columns -- Footings -- Retaining walls --


**Prestressed Concrete Structures**-Praveen Nagarajan 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.
**Prestressed Concrete, 6e**-N. Krishna Raju
2018-04-28 The sixth edition of this comprehensive monograph on Prestressed Concrete is updated to meet the basic requirements of undergraduate and postgraduate students of Civil, Structural and Highway Engineering streams and practising structural engineers. The book incorporates the latest specifications of the revised Indian, British and American codes, with emphasis on the limit state concepts universally adopted in the design of prestressed concrete structures. The design concepts, construction and rehabilitation techniques are well illustrated through numerous worked out examples, figures and case histories of actual structures.

**Prestressed Concrete Analysis and Design**-Antoine E. Naaman 2004-01-01

**Development of a Plasticity Bond Model for Reinforced Concrete**-James V. Cox 1994

**Design of Prestressed Concrete to Eurocode 2, Second Edition**-Raymond Ian Gilbert
2017-01-27 The design of structures in general, and prestressed concrete structures in particular, requires considerably more information than is contained in building codes. A sound understanding of structural behaviour at all stages of loading is essential. This textbook presents a detailed description and explanation of the behaviour of prestressed concrete members and structures both at service loads and at ultimate loads and, in doing so, provide a comprehensive and up-to-date guide to structural design. Much of the text is based on first principles and relies only on the principles of mechanics and the properties of concrete and steel, with numerous worked examples. However, where the design requirements are code specific, this book refers to the provisions of Eurocode 2: Design of Concrete Structures and, where possible, the notation is the same as in Eurocode 2. A parallel volume is written to the Australian...
Standard for Concrete Structures AS3600-2009. The text runs from an introduction to the fundamentals to in-depth treatments of more advanced topics in modern prestressed concrete structures. It suits senior undergraduate and graduate students and also practising engineers who want comprehensive introduction to the design of prestressed concrete structures. It retains the clear and concise explanations and the easy-to-read style of the first edition, but the content has been extensively re-organised and considerably expanded and updated. New chapters cover design procedures, actions and loads; prestressing systems and construction requirements; connections and detailing; and design concepts for prestressed concrete bridges. The topic of serviceability is developed extensively throughout. All the authors have been researching and teaching the behaviour and design of prestressed concrete structures for over thirty-five years and the proposed new edition of the book reflects this wealth of experience. The work has also gained much from Professor Gilbert active and long-time involvement in the development of standards for concrete buildings and concrete bridges.

**Fracture Mechanics**-Ted L. Anderson
2017-03-03 Fracture Mechanics: Fundamentals and Applications, Fourth Edition is the most useful and comprehensive guide to fracture mechanics available. It has been adopted by more than 150 universities worldwide and used by thousands of engineers and researchers. This new edition reflects the latest research, industry practices, applications, and computational analysis and modeling. It encompasses theory and applications, linear and nonlinear fracture mechanics, solid mechanics, and materials science with a unified, balanced, and in-depth approach. Numerous chapter problems have been added or revised, and additional resources are available for those teaching college courses or training sessions. Dr. Anderson’s own website can be accessed at www.FractureMechanics.com.
Prestressed Concrete - Shrikant B. Vanakudre, Ashish A. Yaligar

Prestressed Concrete provides a comprehensive coverage of the theoretical and practical aspects of the subject and includes the latest developments in the field of prestressed concrete construction. It incorporates the latest Indian Standard specifications and codes regulating prestressed concrete construction. The book introduces the properties of the materials and prestressing systems used in the PSC construction. Topics discussed on analysis of PSC sections for flexure, deflection, shear and torsion. In addition to this, analysis and design of various prestress concrete elements such as continuous beams, composite sections, one way slabs, two way slabs, flat slabs, grid floors, compression members, tension members, pipes, piles and tanks are discussed. Analysis and design of various PSC structures such as bridges, sleepers, pavements and poles are also covered. Construction techniques are well illustrated through numerous figures and a number of illustrative examples. Objective questions illustrated are quite useful for those appearing for competitive examinations. The content of this book serve the needs of both students and professionals.

Design of Prestressed Concrete to AS3600-2009 - Raymond Ian Gilbert 2016-02-17

The design of structures in general, and prestressed concrete structures in particular, requires considerably more information than is contained in building codes. A sound understanding of structural behaviour at all stages of loading is essential. This textbook presents a detailed description and explanation of the behaviour of prestressed concrete.

Reinforced and Prestressed Concrete - F.K. Kong 2017-12-21

This highly successful textbook has been comprehensively revised for two main reasons: to bring the book up-to-date and make it compatible with BS8110 1985; and to take into account the increasing use made of
microcomputers in civil engineering. An important new chapter on microcomputer applications has been added.

**PRESTRESSED CONCRETE**-MUTHU K. U.
2016-01-18 The book begins with a brief introduction, helping the reader to understand the fundamentals of stress concept and prestressed concrete systems. The discussion then follows to explain the computation of different losses and estimation of ultimate flexural and shear strength. Important codal provisions viz. IS1343-2012, Eurocode EN2 and BSEN-1:2004 are also highlighted in this text. For clear understanding of the materials, the text is supported by a good number of figures and tables. Besides covering the important topics on design and analysis of anchorage zone stresses and analysis of continuous beam, the book also discusses composite construction and circular prestressing. The book is designed as a textbook for the senior level undergraduate and postgraduate students of civil engineering and construction technology. KEY FEATURES

**Concrete Materials and Structures**-C. B. Wilby 1991-05-30 Very Good, No Highlights or Markup, all pages are intact.

**Olin's Construction**-H. Leslie Simmons 2011-12-20 Get the updated industry standard for a new age of construction! For more than fifty years, Olin's Construction has been the cornerstone reference in the field for architecture and construction professionals and students. This new edition is an invaluable resource that will provide in-depth coverage for decades to come. You'll find the most up-to-date principles, materials, methods, codes, and standards used in the design and construction of contemporary concrete, steel, masonry, and wood buildings for residential, commercial, and institutional use. Organized by the principles of the MasterFormat® 2010 Update, this edition: Covers sitework; concrete, steel, masonry, wood,
and plastic materials; sound control; mechanical and electrical systems; doors and windows; finishes; industry standards; codes; barrier-free design; and much more Offers extensive coverage of the metric system of measurement Includes more than 1,800 illustrations, 175 new to this edition and more than 200 others, revised to bring them up to date Provides vital descriptive information on how to design buildings, detail components, specify materials and products, and avoid common pitfalls Contains new information on sustainability, expanded coverage of the principles of construction management and the place of construction managers in the construction process, and construction of long span structures in concrete, steel, and wood The most comprehensive text on the subject, Olin's Construction covers not only the materials and methods of building construction, but also building systems and equipment, utilities, properties of materials, and current design and contracting requirements. Whether you're a builder, designer, contractor, or manager, join the readers who have relied on the principles of Olin's Construction for more than two generations to master construction operations.

**Prestressed Concrete**-Edward G. Nawy 2010 Completely revised to reflect the new ACI 318-08 Building Code and International Building Code, IBC 2009, this popular book offers a unique approach to examining the design of prestressed concrete members in a logical, step-by-step trial and adjustment procedure. KEY TOPICS: Integrates handy flow charts to help readers better understand the steps needed for design and analysis. Includes a revised chapter containing the latest ACI and AASHTO Provisions on the design of post-tensioned beam end anchorage blocks using the strut-and-tie approach in conformity with ACI 318-08 Code. Offers a new complete section with two extensive design examples using the strut-and-tie approach for the design of corbels and deep beams. Features an addition to the elastic method of design, with comprehensive design examples on...
LRFD and Standard AASHTO designs of bridge deck members for flexure, shear and torsion, conforming to the latest AASHTO specifications. Includes a revised chapter on slender columns, including a simplified load-contour biaxial bending method which is easier to apply in design, using moments rather than loads in the reciprocal approach. MARKET: A useful construction reference for engineers.

**Reinforced and Prestressed Concrete**-F. K. Kong 1998-04 This highly successful textbook has been comprehensively revised for two main reasons: to bring the book up-to-date and make it compatible with BS8110 1985; and to take into account the increasing use made of microcomputers in civil engineering. An important chapter on microcomputer applications has been added.

**FRP Composites for Reinforced and Prestressed Concrete Structures**-Perumalsamy Balaguru 2014-04-21 High strength fibre composites (FRPs) have been used with civil structures since the 1980s, mostly in the repair, strengthening and retrofitting of concrete structures. This has attracted considerable research, and the industry has expanded exponentially in the last decade. Design guidelines have been developed by professional organizations in a number of countries including USA, Japan, Europe and China, but until now designers have had no publication which provides practical guidance or accessible coverage of the fundamentals. This book fills this void. It deals with the fundamentals of composites, and basic design principles, and provides step-by-step guidelines for design. Its main theme is the repair and retrofit of un-reinforced, reinforced and prestressed concrete structures using carbon, glass and other high strength fibre composites. In the case of beams, the focus is on their strengthening for flexure and shear or their stiffening. The main interest with columns is the improvement of their ductility; and both
strengthening and ductility improvement of unreinforced structures are covered. Methods for evaluating the strengthened structures are presented. Step by step procedures are set out, including flow charts, for the various structural components, and design examples and practice problems are used to illustrate. As infrastructure ages worldwide, and its demolition and replacement becomes less of an option, the need for repair and retrofit of existing facilities will increase. Besides its audience of design professionals, this book suits graduate and advanced undergraduate students.

**Solutions Manual to Accompany Nilson/Winter Design of Concrete Structures**-Arthur H. Nilson 1986

**Effects of Increasing the Allowable Compressive Stress at Release of Prestressed Concrete Girders**-David Barra Birrcher 2007

**Modernisation, Mechanisation and Industrialisation of Concrete Structures**-Kim S. Elliott 2017-05 10.6 Conclusion -- References - - Chapter 11 Affordable and Quality Housing Through Mechanization, Modernization and Mass Customisation -- 11.1 Introduction -- 11.2 Design for flexibility - insight from the vernacular architecture -- 11.3 Scope of flexibility in residential housing -- 11.4 Divergent Dwelling Design (D3) - proposed mass housing system for today and tomorrow -- 11.5 Design principles of D3 -- 11.6 Conclusion -- References -- Index -- EULA

**Highway Bridge Superstructure Engineering**-Narendra Taly 2014-11-21 A How-To Guide for Bridge Engineers and DesignersHighway Bridge Superstructure Engineering: LRFD Approaches to Design and Analysis provides a detailed discussion of traditional structural design perspectives, and
serves as a state-of-the-art resource on the latest design and analysis of highway bridge superstructures. This book is applicable to hig

**Failure, Distress and Repair of Concrete Structures** - N Delatte 2009-10-26 Understanding and recognising failure mechanisms in concrete is a fundamental pre-requisite to determining the type of repair, or whether a repair is feasible. This title provides a review of concrete deterioration and damage, as well as looking at the problem of defects in concrete. It also discusses condition assessment and repair techniques. Part one discusses failure mechanisms in concrete and covers topics such as causes and mechanisms of deterioration in reinforced concrete, types of damage in concrete structures, types and causes of cracking and condition assessment of concrete structures. Part two reviews the repair of concrete structures with coverage of themes such as standards and guidelines for repairing concrete structures, methods of crack repair, repair materials, bonded concrete overlays, repairing and retrofitting concrete structures with fiber-reinforced polymers, patching deteriorated concrete structures and durability of repaired concrete. With its distinguished editor and international team of contributors, Failure and repair of concrete structures is a standard reference for civil engineers, architects and anyone working in the construction sector, as well as those concerned with ensuring the safety of concrete structures. Provides a review of concrete deterioration and damage Discusses condition assessment and repair techniques, standards and guidelines

**Design of slabs-on-ground** - 2006-01-01

**Stability of Structures**

**Theory and Design of Bridges** - Petros P. Xanthakos 1994 Indeed, this essential working
reference for practicing civil engineers uniquely reflects today's gradual transition from allowable stress design to Load and Resistance Factor Design by presenting LRFD specifications - developed from research requested by AASH-TO and initiated by the NCHRP - which spell out new provisions in areas ranging from load models and load factors to bridge substructure elements and foundations.