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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.

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The main objective of 1.054/1.541 is to

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provide students with a rational basis of the design of reinforced concrete members and structures through advanced understanding of material and structural behavior. This course is offered to undergraduate (1.054) and graduate students (1.541). Topics covered include: Strength and Deformation of Concrete under Various States of Stress; Failure Criteria; Concrete Plasticity; Fracture Mechanics Concepts; Fundamental Behavior of Reinforced Concrete ...

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concrete, then to develop proficiency in the methods used in current design practice.

Design of Concrete Structures 15th edition (9780073397948 ...

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Methods of Design of Reinforced Concrete
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Stress Method (Contd...) Limit State of
Collapse Flexure. Limit State of Collapse
Flexure - II. Design of Doubly Reinforced
Beam Flexure - I.

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NPTEL :: Civil Engineering - Design of Reinforced Concrete ...

Design of Concrete Structures. The 16th edition of Design of Concrete Structures by Darwin and Dolan presents current concrete behavior theory and updated code-based design rules. The text and illustrated examples are essential for faculty members, students, and practitioners to understand current concrete design.

Design of Concrete Structures

Many engineers use the structural analysis programs by Dlubal Software to perform the

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calculations and designs of 2D and 3D reinforced concrete structures such as buildings, slabs, plates, walls, columns, beams, continuous beams, frames, shells, and silos. Structural analysis software RFEM and RSTAB provide the optimal way to calculate and design structures consisting of reinforced concrete.

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HDM Chapter 19 - Reinforced Concrete Box Culverts and Similar Structures. Purpose: The purpose of this chapter is to discuss requirements for designing reinforced concrete culverts and to provide guidance

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about the information to include in the contract documents, where to present the information, and details for cast-in-place culverts.

Chapter 19

CONTENT: The New York State Prestressed Concrete Construction Manual (PCCM) is a mandatory part of the contract documents for Department of Transportation projects when referred to by the item specification for structural precast, and/or prestressed concrete units. Revision History: 3rd Edition - Revised April 2019 3rd Edition - April 2017

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2nd Edition - September 2000

Prestressed Concrete Construction Manual

Design of Reinforced Concrete, 10th Edition by Jack McCormac and Russell Brown, introduces the fundamentals of reinforced concrete design in a clear and comprehensive manner and grounded in the basic principles of mechanics of solids. Students build on their understanding of basic mechanics to learn new concepts such as compressive stress and strain in concrete, while applying current ACI Code.

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"Introduction -- Flexural analysis of beams
-- Strength analysis of beams according to

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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 -- Continuous reinforced concrete structures -- Torsion -- Two-way slabs, direct design method -- Two-way slabs, equivalent frame method -- Walls -- Prestressed concrete -- Formwork -- Reinforced concrete building systems." --

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OhioLink Library Catalog.

In Finite Element Design of Concrete Structures: practical problems and their solutions the author addresses this blind belief in computer results by offering a useful critique that important details are overlooked due to the flood of information from the output of computer calculations. Indeed, errors in the numerical model may lead in extreme cases to structural failures as the collapse of the so-called Sleipner

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platform has demonstrated.

In recent years knowledge of concrete and concrete structures has increased, as has its applications. New types of concrete challenged scientists and engineers, and ecological constraints encouraged the implementation of life cycle design of concrete structures, moving the focus more and more to maintenance and uprating of structures. And since buildings are not only designed for safety and serviceability, but also for flexibility and adaptability, the design of performance based materials and

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structures has become more and more important. Tailor Made Concrete Structures. New Solutions for our Society comprises the proceedings of the International fib Symposium 2008 (Amsterdam, 19-22 May 2008), and considers these new perspectives and developments, including sections on new materials (i.e. fire resisting concrete, ultra-high performance fibered concrete, textile reinforced concrete, bacteria-based self healing concrete) and codes for the future (i.e. the American P2P Initiative, fibre-reinforced polymer (FRP) applications in construction, Codes for SFRC Structures). The

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book includes contributions from leading scientists and professionals in concrete and concrete structures worldwide, and covers:

- Life cycle design
- Design strategies for the future
- Underground structures
- Monitoring and Inspection
- Diagnosis
- Innovative materials
- Codes for the future
- Modifying and adapting structures
- Architectural Concrete
- Developing a modern infrastructure
- Designing structures against extreme loads
- Increasing the speed of construction

Tailor Made Concrete Structures. New Solutions for our Society includes the state-of-the-art in research on concrete and concrete structures,

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and will be invaluable to professionals, structural engineers and scientists.

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

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structures. The design concepts, construction and rehabilitation techniques are well illustrated through numerous worked out examples, figures and case histories of actual structures.

Here is a comprehensive guide and reference to assist civil engineers preparing for the Structural Engineer Examination. It offers 350 pages of text and 70 design problems with complete step-by-step solutions. Topics covered: Materials for Reinforced Concrete;

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Limit State Principles; Flexure of Reinforced Concrete Beams; Shear and Torsion of Concrete Beams; Bond and Anchorage; Design of Reinforced Concrete Columns; Design of Reinforced Concrete Slabs and Footings; Retaining Walls; and Piled Foundations. An index is provided.

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.

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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.

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

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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

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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.

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