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The term structural concrete indicates all types of concrete and in structural applications. Structural concrete may be plain, prestressed, or partially prestressed concrete; in addition, concrete is used in composite design. Composite design is used for any structural member, such as beams or columns, when the member contains a combination of concrete and steel shapes.

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The FCM proposed by Hillerborg, Modær, and Petersson (1976) for studying crack formation and crack growth in concrete brought two new concepts to the study of concrete fracture: the physical presence of an FPZ (" microcracked zone " in their original words) in front of an open crack due to strain localization and a constitutive law for crack propagation stipulating the relations between the cohesive forces and the crack-opening displacement (COD) inside the FPZ—in other words, the ...

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Unified Theory of Concrete Structures develops an integrated theory that encompasses the various stress states experienced by both RC & PC structures under the various loading conditions of bending, axial load, shear and torsion. Upon synthesis, the new rational theories replace the many empirical formulas currently in use for shear, torsion and membrane stress.

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Structural concrete : theory and design (Book, 2020—

Structural Concrete: Theory and Design, 6th edition (PDF) is the bestselling textbook on concrete structural design and analysis, providing the latest information and clear explanation in an easy to understand style. Newly updated to reflect the latest ACI 318-14 code, this sixth edition emphasizes a conceptual understanding of the subject and builds the engineer student ' s body of knowledge by presenting design methods alongside relevant standards and code.

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.

Reinforced concrete structures are subjected to a complex variety of stresses and strains. The four basic actions are bending, axial load, shear, and torsion. Presently, there is no single comprehensive theory for reinforced concrete structural behavior that addresses all of these basic actions and their interactions. Furthermore, there is little consistency among countries around the world in their building codes, especially in the specifications for shear and torsion. Unified Theory of Reinforced Concrete addresses this serious problem by integrating available information with new research data, developing one unified theory of reinforced concrete behavior that embraces and accounts for all four basic actions and their combinations. The theory is presented in a systematic manner, elucidating its five component models from a pedagogical and historical perspective while emphasizing the fundamental principles of equilibrium, compatibility, and the constitutive laws of materials. The significance of relationships between models and their intrinsic consistencies are emphasized. This theory can serve as the foundation on which to build a universal design code that can be adopted internationally. In addition to frames, the book explains the fundamental concept of the design of wall-type and shell-type structures. Unified Theory of Reinforced Concrete will be an important reference for all engineers involved in the design of concrete structures. The book can also serve well as a text for a graduate course in structural engineering.

This new book on the fracture mechanics of concrete focuses on the latest developments in computational theories, and how to apply those theories to solve real engineering problems. Zihai Shi uses his extensive research experience to present detailed examination of multiple-crack analysis and mixed-mode fracture. Compared with other mature engineering disciplines, fracture mechanics of concrete is still a developing field with extensive new research and development. In recent years many different models and applications have been proposed for crack analysis; the author assesses these in turn, identifying their limitations and offering a detailed treatment of those which have been proved to be robust by comprehensive use. After introducing stress singularity in numerical modelling and some basic modelling techniques, the Extended Fictitious Crack Model (EFCM) for multiple-crack analysis is explained with numerical application examples. This theoretical model is then applied to study two important issues in fracture mechanics - crack interaction and localization, and fracture modes and maximum loads. The EFCM is then reformulated to include the shear transfer mechanism on crack surfaces and the method is used to study experimental problems. With a carefully balanced mixture of theory, experiment and application, Crack Analysis in Structural Concrete is an important contribution to this fast-developing field of structural analysis in concrete. Latest theoretical models analysed and tested Detailed assessment of multiple crack analysis and multi-mode fractures Applications designed for solving real-life engineering problems

Reinforced concrete structures are subjected to a complex variety of stresses and strains. The four basic actions are bending, axial load, shear, and torsion. Presently, there is no single comprehensive theory for reinforced concrete structural behavior that addresses all of these basic actions and their interactions. Furthermore, there is little consistency among countries around the world in their building codes, especially in the specifications for shear and torsion. Unified Theory of Reinforced Concrete addresses this serious problem by integrating available information with new research data, developing one unified theory of reinforced concrete behavior that embraces and accounts for all four basic actions and their combinations. The theory is presented in a systematic manner, elucidating its five component models from a pedagogical and historical perspective while emphasizing the fundamental principles of equilibrium, compatibility, and the constitutive laws of materials. The significance of relationships between models and their intrinsic consistencies are emphasized. This theory can serve as the foundation on which to build a universal design code that can be adopted internationally. In addition to frames, the book explains the fundamental concept of the design of wall-type and shell-type structures. Unified Theory of Reinforced Concrete will be an important reference for all engineers involved in the design of concrete structures. The book can also serve well as a text for a graduate course in structural engineering.

Emphasizing a conceptual understanding of concrete design and analysis, Structural Concrete, Third Edition builds the students understanding by presenting design methods in an easy-to-understand manner supported with the use of numerous examples and problems. Updated for the latest ACI 318-05 code, this new Third Edition includes up-to-date coverage of seismic design, including IBC 2003 references, and new methods for predicting shear and creep in concrete based on the authors own research over the past ten years which will be reflected in the forthcoming ACI 209 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 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.

This established and popular textbook has now been extensively rewritten and expanded in line with the current Eurocodes. It presents the principles of the design of concrete elements and also the design of complete structures, and provides practical illustrations of the theory. It explains the background to the Eurocode rules and goes beyond the c

Sets out basic theory for the behavior of reinforced concrete structural elements and structures in considerable depth. Emphasizes behavior at the ultimate load, and, in particular, aspects of the seismic design of reinforced concrete structures. Based on American practice, but also examines European practice.

Unified Theory of Concrete Structures develops an integrated theory that encompasses the various stress states experienced by both RC & PC structures under the various loading conditions of bending, axial load, shear and torsion. Upon synthesis, the new rational theories replace the many empirical formulas currently in use for shear, torsion and membrane stress. The unified theory is divided into six model components: a) the struts-and-ties model, b) the equilibrium (plasticity) truss model, c) the Bernoulli compatibility truss model, d) the Mohr compatibility truss model, e) the softened truss model, and f) the softened membrane model. Hsu presents the six models as rational tools for the solution of the four basic types of stress, focusing on the significance of their intrinsic consistencies and their inter-relationships. Because of its inherent rationality, this unified theory of reinforced concrete can serve as the basis for the formulation of a universal and international design code. Includes an appendix and accompanying website hosting the authors ' finite element program SCS along with instructions and examples Offers comprehensive coverage of content ranging from fundamentals of flexure, shear and torsion all the way to non-linear finite element analysis and design of wall-type structures under earthquake loading. Authored by world-leading experts on torsion and shear

This book examines the application of strut-and-tie models (STM) for the design of structural concrete. It presents state-of-the-art information, from fundamental theories to practical engineering applications, and also provides innovative solutions for many design problems that are not otherwise achievable using the traditional methods.

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