Construction And Design Of Prestressed Concrete

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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 of structures design of prestressed concrete will service the needs of both students and professional engineers

this book was written with a dual purpose as a reference book for practicing engineers and as a textbook for students of prestressed concrete it represents the fifth generation of books on this subject written by its author significant additions and revisions have been made in this edition chapters 2 and 3 contain new material intended to assist the engineer in understanding factors affecting the time dependent properties of the reinforcement and concrete used in prestressing concrete as well as to facilitate the evaluation of their effects on prestress loss and deflection flexural strength shear strength and bond of prestressed concrete members were treated in a single chapter in the of flexural strength has third edition now in the fourth edition the treatment been expanded with more emphasis on strain compatibility and placed in chapter 5 which is devoted to this subject alone chapter 6 of this edition on flexural shear strength torsional strength and bond of prestressed reinforce ment was expanded to include discussions of compression field theory and torsion that were not treated in the earlier editions in similar fashion expanded discussions of loss of prestress deflection and partial prestressing now are presented separately in chapter 7 minor additions and revisions have been made to the material contained in the remaining chapters with the exception of xv xvi i preface chapter 17 this chapter which is devoted to construction considerations has important new material on constructibility and tolerances as related to prestressed concrete

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 as 3600 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

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

simple design low life cycle costs and fast easy construction are just a few of the reasons that make prestressed concrete

attractive for use in bridges water and wastewater storage tanks ocean dock construction flooring and more prestressed concrete covers the fundamentals of prestressing systems of prestressing losses the ultimate strength of sections in flexure shear and torsion anchorage zone stresses limit state concepts and holistic design of prestressed concrete elements the book also provides information on design of determinate structures and indeterminate structures beams and frames inclusive of cable profiling it discusses special structures like pipes water tanks etc and the behavior of composite structures such as precast prestressed concrete beams cast in situ r c slab along with its design provisions prestressed concrete is a valuable guide for practicing engineers students and researchers

presents basic theory of prestressed concrete along with the load balancing working load and ultimate load methods for prestressed concrete design material revised in light of substantial advances in the field includes materials prestressing systems loss of prestress shear and bond camber and deflection design examples based on the 1977 aci code with its latest revisions appendix contains selected problems

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

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

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

this book addresses an overall approach presenting comprehensive principles and description of the analysis and design of prestressed concrete members from its initial design concepts analysis to the construction stage the structural components are analyzed and designed to conform to the requirements of eurocodes that are similar to indian standard codes followed throughout the world in order to elaborate on the concept of prestressed concrete seven different cases are dealt with in this book to add an analytical approach to the subject the concepts explained are well supported with the mathematical derivations and problem formulations illustrative figures and tables further help in making understanding of the concepts easier the book serves as a reference for the undergraduate students of civil and structural engineering

methods and practices for constructing sophisticated prestressed concrete structures construction of prestressed concrete structures second edition provides the engineer or construction contractor with a completeguide to the design and construction of modern high qualityconcrete structures this highly practicable new edition of ben c gerwick s classic guide is expanded and almost entirely rewrittento reflect the dramatic developments in materials and techniquesthat have occurred over the past two decades the first of the book s two sections deals with materials and techniques for prestressed concrete including the latest recipesfor high strength and durable concrete mixes new reinforcingmaterials and their placement patterns modern prestressingsystems and special techniques such as lightweight concrete and composite construction the

second section covers application tobuildings bridges pilings and marine structures includingoffshore platforms floating structures tanks and containments special subjects such as cracking and corrosion repair and strengthening of existing structures and construction in remoteareas are presented in the final chapters for engineers and construction contractors involved in any type of prestressed concrete construction this book enables the effective implementation of advanced structural concepts and their economical and reliable translation into practice

completely revised to reflect the new aci 318 05 building code and international building code ibc 2000 and its 2002 modifications 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 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 05 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 Irfd and standard aashto designs of bridge deck members for flexure shear and torsion conforming to the latest aashto 2003 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 a useful construction reference for engineers

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