

Design Of Prestressed Concrete Gilbert Mikleborough

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 Time-Dependent Behaviour of Concrete Structures
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 Structural Analysis
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 Ultra-High Performance Concrete and Nanotechnology in Construction. Proceedings of Hipermat 2012. 3rd International Symposium on UHPC and Nanotechnology for High Performance Construction Materials
 Progress in Mechanics of Structures and Materials
 Reinforced Concrete Design
 Mechanics of Structures and Materials
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 Ultra High Performance Concrete
 Reinforced Concrete Design to Eurocode 2
 (UHPC) ; Proceedings of the Second International Symposium on Ultra High Performance Concrete, Kassel, Germany, March 05 - 07, 2008
 Designing and Building with UHPFRC
 From material to structure
 FRP Composites in Civil Engineering - CICE 2004
 A Short Course on Behavior and Design of Prestressed Concrete
 Prestressed Concrete Structures
 EEM Advancement Centre Pty Ltd, Singapore and Kuala Lumpur 1994
 Reinforced and Prestressed Concrete Design to EC2
 Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges

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ARTHUR CARLIE

Design of Prestressed Concrete Taylor & Francis

Free-Surface Hydraulics is a unified, pragmatic account of the water surface and its underlying mechanics. Based on the author's 30 years experience of research and teaching in civil engineering hydraulics, this text is designed to help students achieve a coherent understanding More...of a subject often obscured by empirical detail and unstructured approaches. The text leads progressively from hydrostatics, through steady and unsteady flows, to waves and tides. The author draws a careful distinction between kinematic and dynamic motions - the latter he treats at some length by the method of characteristics, regarded as one of the more rigorous approaches to unsteady flow. A special feature is the final chapter, devoted to the disruption of free surfaces by air and bubble motion, especially in pipes.

Time-Dependent Behaviour of Concrete Structures CRC Press

This text presents the theoretical and practical aspects of analysis and design, complemented by numerous design examples.

Concrete Structures: Stresses and Deformations CRC Press

This textbook describes the basic mechanical features of concrete and explains the main resistant mechanisms activated in the reinforced concrete structures and foundations when subjected to centred and eccentric axial force, bending moment, shear, torsion and prestressing. It presents a complete set of limit-state design criteria of the modern theory of RC incorporating principles and rules of the final version of the official Eurocode 2. This textbook examines methodological more than notional aspects of the presented topics, focusing on the verifications of assumptions, the rigorousness of the analysis and the consequent degree of reliability of results. Each chapter develops an organic topic, which is eventually illustrated by examples in each final paragraph containing the relative numerical applications. These practical end-of-chapter appendices and intuitive flow-charts ensure a smooth learning experience. The book stands as an ideal learning resource for students of structural design and analysis courses in civil engineering, building construction and architecture, as well as a valuable reference for concrete structural design professionals in practice.

Reinforced and Prestressed Concrete CRC Press

This Research Topic eBook comprises Volume I and Volume II of Best Practices on Advanced

Condition Monitoring of Rail Infrastructure Systems.

Free-Surface Hydraulics CRC Press

This is a collection of peer-reviewed papers originally presented at the 19th Australasian Conference on the Mechanics of Structures and Materials by academics, researchers and practitioners largely from Australasia and the Asia-Pacific region. The topics under discussion include: composite structures and materials; computational mechanics; dynamic analysis of structures; earthquake engineering; fire engineering; geomechanics and foundation engineering; mechanics of materials; reinforced and prestressed concrete structures; shock and impact loading; steel structures; structural health monitoring and damage identification; structural mechanics; and timber engineering. It is a valuable reference for academics, researchers, and civil and mechanical engineers working in structural and material engineering and mechanics.

Journal of the Prestressed Concrete Institute CRC Press

Design of Prestressed Concrete CRC Press

High Performance Concrete Thomas Telford

Serviceability failures of concrete structures involving excessive cracking or deflection are relatively common, even in structures that comply with code requirements. This is often as a result

of a failure to adequately account for the time-dependent deformations of concrete in the design of the structure. The serviceability provisions embodied in codes of practice are relatively crude and, in some situations, unreliable and do not adequately model the in-service behaviour of structures. In particular, they fail to adequately account for the effects of creep and shrinkage of the concrete. Design for serviceability is complicated by the non-linear and inelastic behaviour of concrete at service loads. Providing detailed information, this book helps engineers to rationally predict the time-varying deformation of concrete structures under typical in-service conditions. It gives analytical methods to help anticipate time-dependent cracking, the gradual change in tension stiffening with time, creep induced deformations and the load independent strains caused by shrinkage and temperature changes. The calculation procedures are illustrated with many worked examples. A vital guide for practising engineers and advanced students of structural engineering on the design of concrete structures for serviceability and provides a penetrating insight into the time-dependent behaviour of reinforced and prestressed concrete structures.

Principles, Methods and Modelling CRC Press

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.

Prestressed Concrete CRC Press

Setting out design theory for concrete elements and structures and illustrating the practical applications of the theory, the third edition of this popular textbook has been extensively rewritten and expanded to conform to the latest versions of BS8110 and EC2. It includes more than sixty clearly worked out design examples and over 600 diagrams, plans and charts as well as giving the background to the British Standard and Eurocode to explain the 'why' as well as the 'how' and highlighting the differences between the codes. New chapters on prestressed concrete and water retaining structures are included and the most commonly encountered design problems in structural concrete are covered. Invaluable for students on civil engineering degree courses; explaining the principles of element design and the procedures for the design of concrete buildings, its breadth and depth of coverage also make it a useful reference tool for practising engineers.

Design of Prestressed Concrete National Library Australia

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 reinforcement, 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.

Civil engineering kassel university press GmbH

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

Performance-Based Optimization of Structures KHANNA PUBLISHING HOUSE

Performance-Based Optimization of Structures introduces a method to bridge the gap between

structural optimization theory and its practical application to structural engineering. The Performance-Based Optimization (PBO) method combines modern structural optimisation theory with performance based design concepts to produce a powerful technique for use in structural design. This book provides the latest PBO techniques for achieving optimal topologies and shapes of continuum structures with stress, displacement and mean compliance constraints. The emphasis is strongly placed on practical applications of automated PBO techniques to the strut-and-tie modelling of structural concrete, which includes reinforced and prestressed concrete structures. Basic concepts underlying the development of strut-and-tie models, design optimization procedure, and detailing of structural concrete are described in detail. Alternative approaches to topology optimization are also introduced. The book contains numerous practical design examples illustrating the nature of the load transfer mechanism of structures.

Design Principles and Construction Methods CRC Press

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

Modern Prestressed Concrete Birkhäuser

This book was written to make the material presented in my book, Stahlbetonbrücken, accessible to a larger number of engineers throughout the world. A work in English, the logical choice for this task, had been contemplated as Stahlbetonbrücken was still in its earliest stages of preparation. The early success of Stahlbetonbrücken provided significant impetus for the writing of Prestressed Concrete Bridges, which began soon after the publication of its predecessor. The present work is more than a mere translation of Stahlbetonbrücken. Errors in Stahlbetonbrücken that were detected after publication have been corrected. New material on the relation between cracking in concrete and corrosion of reinforcement, prestressing with unbonded tendons, skew-girder bridges, and cable-stayed bridges has been added. Most importantly, however, the presentation of the material has been extensively reworked to improve clarity and consistency. Prestressed Concrete Bridges can thus be regarded as a thoroughly new and improved edition of its predecessor.

Design of Prestressed Concrete to Eurocode 2 Pearson Education India

Serviceability failures of concrete structures involving excessive cracking or deflection are relatively common, even in structures that comply with code requirements. This is often as a result of a failure to adequately account for the time-dependent deformations of concrete in the design of the structure. The serviceability provisions embodied in codes of practice are relatively crude and, in some situations, unreliable and do not adequately model the in-service behaviour of structures. In particular, they fail to adequately account for the effects of creep and shrinkage of the concrete. Design for serviceability is complicated by the non-linear and inelastic behaviour of concrete at service loads. Providing detailed information, this book helps engineers to rationally predict the time-varying deformation of concrete structures under typical in-service conditions. It gives analytical methods to help anticipate time-dependent cracking, the gradual change in tension stiffening with time, creep induced deformations and the load independent strains caused by shrinkage and temperature changes. The calculation procedures are illustrated with many worked examples. A vital guide for practising engineers and advanced students of structural engineering on the design of concrete structures for serviceability and provides a penetrating insight into the time-dependent behaviour of reinforced and prestressed concrete structures.

Limit States Design of Prestressed Concrete Slabs and Beams Springer

The range of fibre-reinforced polymer (FRP) applications in new construction, and in the retrofitting of existing civil engineering infrastructure, is continuing to grow worldwide. Furthermore, this

progress is being matched by advancing research into all aspects of analysis and design. The Second International Conference on FRP Composites in

Transactions of the Institution of Engineers, Australia CRC Press

In-depth, comprehensive and up-to-date information on the powerful finite strip method of analysis of bridges. It is in three parts. The first introduces the method and gives the necessary background. The second explains the evolution of the method and the third part provides detailed information on the application of the method to highway bridges.

Australian national bibliography Cambridge University Press

This book contains the proceedings of the international workshop "Designing and Building with Ultra-High Performance Fibre-Reinforced Concrete (UHPFRC): State of the Art and Development", organized by AFGC, the French Association for Civil Engineering and French branch of fib, in Marseille (France), November 17-18, 2009. This workshop was focused on the experience of a lot of recent UHPFRC realizations. Through more than 50 papers, this book details the experience of many countries in UHPFRC construction and design, including projects from Japan, Germany, Australia, Austria, USA, Denmark, the Netherlands, Canada... and France. The projects are categorized as novel architectural solutions, new frontiers for bridges, new equipments and structural components, and extending the service life of structures. The last part presents major research results, durability and sustainability aspects, and the updated AFGC Recommendations on UHPFRC.

Short Course, Mahanakorn University of Technology, Bangkok, Thailand 1994 CRC Press

Steel and composite steel-concrete structures are widely used in modern bridges, buildings, sport stadia, towers, and offshore structures. Analysis and Design of Steel and Composite Structures offers a comprehensive introduction to the analysis and design of both steel and composite structures. It describes the fundamental behavior of steel and composite members and structures, as well as the current design criteria and procedures given in Australian standards AS/NZS 1170, AS 4100, AS 2327.1, Eurocode 4, and AISC-LRFD specifications. Featuring numerous step-by-step examples that clearly illustrate the detailed analysis and design of steel and composite members and connections, this practical and easy-to-understand text: Covers plates, members, connections, beams, frames, slabs, columns, and beam-columns Considers bending, axial load, compression, tension, and design for strength and serviceability Incorporates the author's latest research on composite members Analysis and Design of Steel and Composite Structures is an essential course textbook on steel and composite structures for undergraduate and graduate students of structural and civil engineering, and an indispensable resource for practising structural and civil engineers and academic researchers. It provides a sound understanding of the behavior of structural members and systems.

Structural Analysis CRC Press

Provides Step-by-Step Instruction Structural Analysis: Principles, Methods and Modelling outlines the fundamentals involved in analyzing engineering structures, and effectively presents the derivations used for analytical and numerical formulations. This text explains practical and relevant concepts, and lays down the foundation for a solid mathematical background that incorporates MATLAB® (no prior knowledge of MATLAB is necessary), and includes numerous worked examples. Effectively Analyze Engineering Structures Divided into four parts, the text focuses on the analysis of statically determinate structures. It evaluates basic concepts and procedures, examines the classical methods for the analysis of statically indeterminate structures, and explores the stiffness method of analysis that reinforces most computer applications and commercially available structural analysis software. In addition, it covers advanced topics that include the finite element method, structural stability, and problems involving material nonlinearity. MATLAB® files for selected worked examples are available from the book's website. Resources available from CRC Press for lecturers adopting the book include: A solutions manual for all the problems posed in the book Nearly 2000 PowerPoint presentations suitable for use in lectures for each chapter in the book Revision videos of selected lectures with added narration Figure slides Structural Analysis: Principles, Methods and Modelling exposes civil and structural engineering undergraduates to the essentials of structural analysis, and serves as a resource for students and practicing professionals in solving a range of engineering problems.

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