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Smart and Multifunctional Concrete Toward Sustainable Infrastructures
Concrete Construction
Guide to Durable Concrete
The Economics of Historic Preservation
Foundations for Dynamic Equipment
Guide for the Design and Construction of Durable Concrete Parking Structures
The Toxic Substances Control Act
Corrosion of Steel in Concrete
Specifications for Structural Concrete
Application of LRFD Bridge Design Specifications to High-strength Structural Concrete
Concrete Pavement Maintenance Manual
Guide to Full-depth Reclamation (FDR) with Cement
Structural Design of Insulating Concrete Form Walls in Residential Construction
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Design of Slabs-on-ground

GARNER PARKER

Smart and Multifunctional Concrete Toward Sustainable Infrastructures Springer
Explores how people of faith and goodwill might mark the midwinter season and the Christmas festival with integrity and simplicity.

Concrete Construction Transportation Research Board
This specification contains the construction requirements for the application of shotcrete.

Guide to Durable Concrete Wild Goose Publications
Since it was first published in 1994, The Economics of Historic Preservation: A Community Leaders Guide has become an essential reference for any preservationist faced with convincing government officials, developers, property owners, business and community leaders, or his or her own neighbors that preservation strategies can make good economic sense. Author Donovan D. Rypkemareal estate consultant and nationally known speaker and writermakes his case with 100 "arguments" on the economic benefits of historic preservation, each backed up by one or more quotes from a study, paper, publication, speech, or report. In this eagerly awaited 2005 edition, he gives these arguments even more clout by adding new information and insights gained in the last decade.

Count on Rypkema to be entertaining, provocative, and convincing as he describes and demonstrates how strategies that include preservation help communities make cost-effective use of resources, create jobs, provide affordable housing, revive downtowns, build tourism, attract new businesses and workers, and more. *The Economics of Historic Preservation* American Concrete Institute
Chemical admixtures are used in concrete mixtures to produce particular engineering properties such as rapid hardening, water-proofing or resistance to cold. Chemical Admixtures for Concrete surveys recent developments in admixture technology, explaining the mechanisms by which admixtures produce their effects, the various types of admixtures avail
Foundations for Dynamic Equipment Springer
The use of ultra high performance fiber reinforced concretes (UHPFRCs) is spreading rapidly. Their outstanding mechanical and durability properties and castability enable very innovative and efficient structural and architectural applications. Both prefabrication and cast-on-site applications are now well established, for new structures as well as for the rehabilitation and reinforcement of existing ones. This book sets out the basis and provides a state-of-the-art review of the mechanical and physical properties of UHPFRCs and measurement methods. It

highlights the differences between the various UHPFRCs available worldwide, giving guidance on the design of sustainable mixes which make ample use of supplementary cementing materials and local components. The environmental assessment of construction systems using UHPFRC is also examined.

Guide for the Design and Construction of Durable Concrete Parking Structures John Wiley & Sons

Self-healing materials are man-made materials which have the built-in capability to repair damage. Failure in materials is often caused by the occurrence of small microcracks throughout the material. In self-healing materials phenomena are triggered to counteract these microcracks. These processes are ideally triggered by the occurrence of damage itself. Thus far, the self-healing capacity of cement-based materials has been considered as something "extra". This could be called passive self-healing, since it was not a designed feature of the material, but an inherent property of it. Centuries-old buildings have been said to have survived these centuries because of the inherent self-healing capacity of the binders used for cementing building blocks together. In this State-of-the-Art Report a closer look is taken at self-healing phenomena in cement-based materials. It is shown what options are available to design for

this effect rather than have it occur as a "coincidental extra".

The Toxic Substances Control Act Copyright Office, Library of Congress Full-depth reclamation (FDR) is a roadway rehabilitation process that recycles the materials from deteriorated asphalt pavement, and, with the addition of portland cement, creates a new stabilized base. This guide to FDR discusses its applications, benefits, design, construction, and testing.

Corrosion of Steel in Concrete Portland Cement Assn

Marine Concrete Structures: Design, Durability and Performance comprehensively examines structures located in, under, or in close proximity to the sea. A major emphasis of the book is on the long-term performance of marine concrete structures that not only represent major infrastructure investment and provision, but are also required to operate with minimal maintenance. Chapters review the design, specification, construction, and operation of marine concrete structures, and examine their performance and durability in the marine environment. A number of case studies of significant marine concrete structures from around the world are included which help to reinforce the principles outlined in earlier chapters and provide useful background to these types of structures. The result is a thorough and up-to-date reference

source that engineers, researchers, and postgraduate students in this field will find invaluable. Covers, in detail, the design, specification, construction, and operation of marine concrete structures Examines the properties and performance of concrete in the marine environment Provides case studies on significant marine concrete structures and durability-based design from around the world

Specifications for Structural Concrete HRIS AbstractsDesign of Slabs-on-ground

This book is a thorough and comprehensive update of the 2002 edition, that incorporates detailed references to the Canadian, American, and British (European) standards, contextualized by the author based on over 30 years of construction experience. In addition to updates to the core text, many new topics are presented in the second edition, including a chapter discussing the methods for achieving quality control and ensuring quality assurance in concrete construction. The book consists of two parts. The first part provides basic information about normal concrete, its grades used on sites and various kinds of modified concretes such as fiber-reinforced concrete, sulphur concrete, roller compacted concrete, high performance concrete, ultra- high performance concrete, and flowing concrete. . It further addresses physical properties of concrete and

various types of Portland cement, blended cements, admixtures, additives including properties of aggregates and their influence. The second part of the book highlights the principal causes of concrete deterioration along with protective measures, resulting from incorrect selection of constituent materials, poor construction methods, external factors, chemical attack, corrosion problems, hot and cold weather effects, and the various errors in designing and detailing. Featuring an extensive bibliography of the highly adopted standards as well as manuals and journals critical to the construction industry at the end of each chapter, the volume offers readers an advanced understanding of the theory and practical application of concrete technology and international standards in North America and Britain. Addresses concrete technology as well as concrete construction practices, meeting national and international standards; Maximizes readers' understanding of the principal causes of concrete deterioration along with protective measures; Facilitates readers' grasp of different nomenclature used for the same materials in different parts of the world; Features suitable tables, charts, and diagrams that illustrate and organize useful information; Explains sustainable concrete doctrine and how to achieve it meeting green concrete / building requirements; Provides a

glossary, conversion factors, and examples of concrete mix design. · *Application of LRFD Bridge Design Specifications to High-strength Structural Concrete* CRC Press "Research sponsored by the American Association of State Highway and Transportation Officials in cooperation with the Federal Highway Administration."

Concrete Pavement Maintenance Manual Springer Science & Business Media

The concept of precast segmental bridges is not new: the first application documented was from the mid-1940s, designed by Eugene Freyssinet and built over the river Marne near Luzancy in France, between 1944 and 1946. Although innovative, it also contained traditional wet concrete joints between the members. The impressive breakthrough came slightly later with the introduction of match-cast joints by Jean Muller, first for a bridge near Buffalo (USA) in 1952, and later for a bridge across the River Seine at Choisy le Roi near Paris in 1962. This opened the way for a large number of new developments in terms of design, production approaches and construction techniques, and precast prestressed concrete segmental construction became rapidly one of the most efficient and successful bridge construction methods all over the world. These developments are still evolving, but the interaction between design, production and construction is a critical

factor for success: the interaction creates opportunities to optimise the scheme, but at the same time is crucial to ensure safety, especially during construction, when large weights are moved, placed and secured, frequently at substantial heights. Engineers of all disciplines involved should interact during the development and realisation of precast segmental bridge (PSB) schemes, to conclude the optimum method statement and consequently check all the intermediate steps of the method statement in terms of stress, stiffness, stability, production and constructability. With the ongoing development of the PSB concept, and consequently moving limits in terms of dimensions, it was concluded to be appropriate to develop a Guide to good practice for the PSB construction method. The present report was developed by an integrated team of engineers with roots in design, structural engineering, production and construction, and provides a valuable source of knowledge, experience, recommendations and examples, with particular emphasis on the fib Model Code for Concrete Structures 2010 and fib Bulletins 20, 33, 48 and 75. I would like to thank all the members of Task Group 1.7, all the individual contributors from outside Task Group 1.7, and the reviewers of the Technical Council of the fib for their contribution to this Guide to good practice. In

particular, I would like to thank Gopal Srinivasan and Marcos Sanchez, who, apart from their own contributions, did the final editorial work for this bulletin.

Guide to Full-depth Reclamation (FDR) with Cement FIB - Féd. Int. du Béton

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 **Structural Design of Insulating Concrete Form Walls in Residential Construction** American Concrete Institute Summary: This book presents the properties of concrete as needed in concrete construction, including strength and durability. All concrete ingredients (cementing materials, water, aggregates, admixtures, and fibers) are reviewed for their optimal use in designing and proportioning concrete mixtures. Applicable ASTM, AASHTO, and ACI standards are referred to extensively. The use of concrete from design to batching, mixing, transporting, placing, consolidating, finishing, and curing is addressed. Concrete sustainability, along with special concretes, including high-performance concretes, are also reviewed. *HRIS Abstracts* CRC Press Marine Structures Engineering is designed to help engineers meet the growing worldwide demand for construction of new ports and the modernization of existing ports and terminals. It provides an authoritative guide to the design, construction, rehabilitation, repair, and maintenance of port and harbor structures. Each

chapter is self-contained, allowing readers to access specific information. The Author draws on his extensive experience in offshore structure and port engineering to demonstrate evaluation, rehabilitation, repair, and maintenance of in-service marine structures. Also covered in detail are state-of-the-art approaches to: *marine structures in cold regions, with special attention to the role of ice loads, permafrost, and other ice effects *shiplifts, marine railways, shipways, and dry docks *offshore moorings *floating breakwaters *marinas *structures that protect bridge piers from ship impact. Offering practical information on all aspects of marine structures, this book serves as an indispensable resource to all engineers and professionals involved in design, construction, maintenance, and modernization of ports and harbors.

Biological Abstracts

Springer Science & Business Media

Steel-reinforced concrete is used ubiquitously as a building material due to its unique combination of the high compressive strength of concrete and the high tensile strength of steel. Therefore, reinforced concrete is an ideal composite material that is used for a wide range of applications in structural engineering such as buildings, bridges, tunnels, harbor quays, foundations, tanks and pipes. To ensure durability of these structures, however, measures must be taken to prevent, diagnose and, if

necessary, repair damage to the material especially due to corrosion of the steel reinforcement. The book examines the different aspects of corrosion of steel in concrete, starting from basic and essential mechanisms of the phenomenon, moving up to practical consequences for designers, contractors and owners both for new and existing reinforced and prestressed concrete structures. It covers general aspects of corrosion and protection of reinforcement, forms of attack in the presence of carbonation and chlorides, problems of hydrogen embrittlement as well as techniques of diagnosis, monitoring and repair. This second edition updates the contents with recent findings on the different topics considered and bibliographic references, with particular attention to recent European standards. This book is a self-contained treatment for civil and construction engineers, material scientists, advanced students and architects concerned with the design and maintenance of reinforced concrete structures. Readers will benefit from the knowledge, tools, and methods needed to understand corrosion in reinforced concrete and how to prevent it or keep it within acceptable limits.

Annual Report 2016-17 Woodhead Publishing

Vols. for 1964- have guides and journal lists.

Reporting company section University of Virginia Press

HRIS AbstractsDesign of Slabs-on-groundAmerican

Concrete InstituteSelf-Healing Phenomena in Cement-Based MaterialsSpringer Science & Business Media

Science Citation Index

Elsevier

This book presents the latest research advances and findings in the field of smart/multifunctional concretes, focusing on the principles, design and fabrication, test and characterization, performance and mechanism, and their applications in infrastructures. It also discusses future challenges in the development and application of smart/multifunctional concretes, providing useful theory, ideas and principles, as well as insights and practical guidance for developing sustainable infrastructures. It is a valuable resource for researchers, scientists and engineers in the field of civil-engineering materials and infrastructures.

Failure, Distress and Repair of Concrete Structures

Chemical Admixtures for Concrete

• Feel-good Productivity: How To Do More Of What Matters To You By Ali Abdaal
• You Will Own Nothing: Your War With A New Financial World Order And How To Fight Back By Carol Roth
• Outlive: The Science And Art Of Longevity
• Chicka Chicka Boom Boom (board Book)
• Things We Hide From The Light (knockemout Series, 2)
• Kindergarten, Here I Come! By D.j. Steinberg
• Dark Future: Uncovering The Great Reset's Terrifying Next Phase (the Great Reset Series) By Glenn Beck