

Concrete 2nd Edition Sidney Mindess

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[Fibre Reinforced Cementitious Composites, Second Edition](#) - Arnon Bentur 2006-11-22

Advanced cementitious composites can be designed to have outstanding combinations of strength (five to ten times that of conventional concrete) and energy absorption capacity (up to 1000 times that of plain concrete). This second edition brings together in one volume the latest research developments in this rapidly expanding area. The book is split into two parts. The first part is concerned with the mechanics of fibre reinforced brittle matrices and the implications for cementitious systems. In the second part the authors describe the various types of fibre-cement composites, discussing production processes, mechanical and physical properties, durability and applications. Two new chapters have been added, covering fibre specification and structural applications. Fibre Reinforced Cementitious Composites will be of great interest to practitioners involved in modern concrete technology and will also be of use to academics, researchers and graduate students.

Concrete Surface Engineering - Benoit Bissonnette 2018-10-09

Applying any material to an existing concrete surface intrinsically entails the development of a bond. Considering the ever increasing importance of concrete repair and protection, which imply the creation of an interface between two materials, an improved knowledge of concrete surface characteristics is paramount. Surface engineering, which has evolved from the world of metallurgy, addresses all surface-related considerations, notably adhesion. It provides a fundamental understanding of what will make the contact between two materials effective or not, allowing for interactions of variable intensity. It also comes with a variety of scientific tools for characterizing the quality of the substrate, the properties of the new material layer and their interface. In the case of concrete surface treatment, this is especially important for achieving lasting results. This book addresses the essentials of concrete surface engineering in view of a wide variety of concrete surface treatments, from protective coatings to repairs. It provides a leading-edge source of information for practicing engineers, architects, repair specialists, and researchers on the following topics: Surface engineering principles applied to concrete Methods and techniques for assessing concrete surface characteristics Fundamentals of adhesion between concrete and surface repairs/treatments Compatibility requirements for concrete surface repairs/treatments Review of surface preparation techniques available for concrete Achievement and appraisal of bond between existing concrete and surface repairs/treatments Benoit Bissonnette is professor of civil engineering at Laval University in Quebec City, Canada. Luc Courard is professor of building materials at the University of Liège in Belgium. Andrzej Garbacz is professor of building materials engineering in the Department of Building Materials Engineering at the Warsaw University of Technology in Poland.

[Fibre Reinforced Cementitious Composites, Second Edition](#) - Arnon Bentur 2006-11-16

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Shotcrete - Dudley Robert Morgan 2022-03-30

Shotcrete: Materials, Performance and Use is a comprehensive textbook covering the current state-of-the-art shotcrete technology. It provides an overview of the many and various uses of shotcrete. Shotcrete is well suited for construction of curvilinear structures (domes, shells, bobsleigh/luge tracks, etc.) and overhead shotcrete applications (seismic retrofit, repairs, ground support, etc.) that could not be constructed technically and/or economically using conventional formed, cast-in-place concrete construction methods. It contains chapters on history, shotcrete materials and mixture proportioning, performance, shotcrete research, equipment and shotcrete application. It is also comprised of shotcrete case history examples including buildings and structures, infrastructure repair and rehabilitation, ground support and shoring, underground support in tunnels and mines, swimming pools and spas, and, finally, architectural shotcrete. This text should be of interest to design engineers and architects considering the use of the technology, as well as academics. It serves as a useful guide to contractors using shotcrete in one or more of its many and various applications.

Precast Concrete Structures - Kim S. Elliott 2019-08-08

This second edition of Precast Concrete Structures introduces the conceptual design ideas for the prefabrication of concrete structures and presents a number of worked examples that translate designs from BS 8110 to Eurocode EC2, before going into the detail of the design, manufacture, and construction of precast concrete multi-storey buildings. Detailed structural analysis of precast concrete and its use is provided and some details are presented of recent precast skeletal frames of up to forty storeys. The theory is supported by numerous worked examples to Eurocodes and European Product Standards for precast reinforced and prestressed concrete elements, composite construction, joints and connections and frame stability, together with extensive specifications for precast concrete structures. The book is extensively illustrated with over 500 photographs and line drawings.

Significance of Tests and Properties of Concrete and Concrete-making Materials - Joseph F. Lamond 2006

Waste Materials and By-Products in Concrete - Rafat Siddique 2007-11-13

The amount and variety of waste that humanity dumps in landfill sites is nothing short of a scandal, believes Rafat Siddique, of Deemed University in Patiala, India. Instead, we ought to be building new homes out of it! Siddique shows in this important book that many non-hazardous waste materials and by-products which are landfilled, can in fact be used in making concrete and similar construction materials.

[Concrete](#) - Sidney Mindess 2003

Designed for undergraduate courses in civil engineering and construction materials and for practicing professional engineers. Also serves as an excellent resource in upper level concrete materials courses. The text provides a cohesive presentation of practical applications supported by detailed background information.

[Fiber-Reinforced-Plastic \(FRP\) Reinforcement for Concrete Structures](#) - David A Hensher 2016-01-22

The use of fiber reinforced plastic (FRP) composites for prestressed and non-prestressed concrete reinforcement has developed into a technology with serious and substantial claims for the advancement of construction materials and methods. Research and development is now occurring worldwide. The 20 papers in this volume make a further contribution in advancing knowledge and acceptance of FRP composites for concrete reinforcement. The articles are divided into three parts. Part I introduces FRP reinforcement for concrete structures and describes general material properties and manufacturing methods. Part II covers a three-continent perspective of current R&D, design and code implementations, and technical organizations' activities. Part III presents an in-depth description of commercially-available products, construction methods, and applications. The work is intended for engineers, researchers, and

developers with the objective of presenting them with a world-wide cross-section of initiatives, representative products and significant applications.

Aggregates in Concrete - Mark Alexander 2010-02-25

Bringing together in one volume the latest research and information, this book provides a detailed guide to the selection and use of aggregates in concrete. After an introduction defining the purpose and role of aggregates in concrete, the authors present an overview of aggregate sources and production techniques, followed by a detailed study of their physical, mechanical and chemical properties. This knowledge is then applied to the use of aggregates in both plastic and hardened concretes, and in the overall mix design. Special aggregates and their applications are discussed in detail, as are the current main specifications, standards and tests.

Concrete International - 2007

Fibre Reinforced Cementitious Composites - Arnon Bentur 2006-11-16

Advanced cementitious composites can be designed to have outstanding combinations of strength (five to ten times that of conventional concrete) and energy absorption capacity (up to 1000 times that of plain concrete). This second edition brings together in one volume the latest research developments in this rapidly expanding area. The book is split into two parts. The first part is concerned with the mechanics of fibre reinforced brittle matrices and the implications for cementitious systems. In the second part the authors describe the various types of fibre-cement composites, discussing production processes, mechanical and physical properties, durability and applications. Two new chapters have been added, covering fibre specification and structural applications. *Fibre Reinforced Cementitious Composites* will be of great interest to practitioners involved in modern concrete technology and will also be of use to academics, researchers and graduate students.

Textile Reinforced Concrete - Alva Peled 2017-08-07

Textile reinforced concrete (TRC) has emerged in recent years as an attractive new high performance cement-based composite. Textiles can significantly improve the mechanical behavior of cement matrices under static and dynamic conditions, and give superior tensile strength, toughness, ductility, energy absorption and protection against environmental degrading influences. Flexibility with fabric production methods enables the control of fabric and yarn geometry. This, along with the ability to incorporate into the fabric a range of yarns of different types and performances, as well as cement matrix modifications, enables design of the composite to a wide range of needs. The book is intended to provide a comprehensive treatment of TRC, covering the basic fundamentals of the composite material itself and the principles governing its performance on a macro-scale as a component in a structure. It provides in-depth treatment of the fabric, methods for production of the composite, the micro-mechanics with special attention to the role of bonding and microstructure, behavior under static and dynamic loading, sustainability, design, and the applications of TRC composites.

Binders for Durable and Sustainable Concrete - Pierre-Claude Aitcin 2007-07-05

Linking theory to practice, this book provides a better fundamental understanding of Portland cement and hydraulic binders which is necessary to make better concrete. It has been clearly demonstrated that concrete durability is closely linked to its water/binder ratio and proper curing during the first week after casting. In this rigorously presented work, Pierre-Claude Aitcin explains the complexity of the hydration reaction and how to make, use and cure durable and sustainable concrete. This book also details the problems with Portland cement composition at present and outlines the concept of an ideal hydraulic binder which is technically and ecologically efficient, as well as being long-lasting and robust. *Binders for Durable and Sustainable Concrete* is a practical and innovative reference text which will be particularly relevant to engineers and chemists working in the Portland cement, concrete and admixture industries. This book will also be of interest to academics and graduate-level students in Civil Engineering departments who specialize in Portland cement and concrete technology.

Advanced Concrete Technology - Zongjin Li 2011-01-11

Over the past two decades concrete has enjoyed a renewed level of research and testing, resulting in the development of many new types of concrete. Through the use of various additives, production techniques and chemical processes, there is now a great degree of control over the properties of specific concretes for a wide range of applications. New

theories, models and testing techniques have also been developed to push the envelope of concrete as a building material. There is no current textbook which brings all of these advancements together in a single volume. This book aims to bridge the gap between the traditional concrete technologies and the emerging state-of-the-art technologies which are gaining wider use.

Advances in Construction Materials 2007 - Christian U. Grosse 2007-08-14

The book is a compilation of recent research results on building construction materials. Civil Engineers and Materials Scientists from all over the world present their ideas for further material developments, the testing of structures and solutions for in situ applications. Many of the innovations, composites and the design of existing material mixes, especially for concrete, are discussed.

Materials Science of Concrete, Special Volume - Jan P. Skalny 2001-04-28

This volume provides broad coverage of key issues related to the role of calcium hydroxide in cements and concrete. It contains critical topics such as the physicochemical role calcium hydroxide plays in hydration and deterioration of cementing properties as well as the implications of the presence of calcium hydroxide on the future of Portland cement, blended and specialty cements, and ecology of cement production.

Reinforced Concrete - James Grierson MacGregor 1997

Based on the 1995 edition of the American Concrete Institute Building Code, this text explains the theory and practice of reinforced concrete design in a systematic and clear fashion, with an abundance of step-by-step worked examples, illustrations, and photographs. The focus is on preparing students to make the many judgment decisions required in reinforced concrete design, and reflects the author's experience as both a teacher of reinforced concrete design and as a member of various code committees. This edition provides new, revised and expanded coverage of the following topics: core testing and durability; shrinkage and creep; bases the maximum steel ratio and the value of the factor on Appendix B of ACI318-95; composite concrete beams; strut-and-tie models; dapped ends and T-beam flanges. It also expands the discussion of STMs and adds new examples in SI units.

Sustainability of Concrete - Pierre-Claude Aitcin 2011-02-18

Production of Portland cement is responsible for about seven percent of the world's greenhouse gas emissions. The pressure to make the production of concrete more sustainable, or "greener", is considerable and increasing. This requires a wholesale shift in processes, materials and methods in the concrete industry. Pure Portland cement will need to be replaced by more complex binary, tertiary or even quaternary binders, including other types of cementitious materials. We can expect an increasing use of high performance concrete, primarily because of its high sustainability and durability. Much more attention will have to be paid to the proper curing of the concrete if we want to improve its life expectancy. Presenting the latest advances in the science of concrete this book focuses particularly on sustainability, durability, and economy. It explores the potential for increased sustainability in concrete from the initial mixing right through to its behaviour in complex structures exposed to different types of loads and aggressive environments.

Structural Concrete - Salah El-Metwally 2017-10-02

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.

Toughening Mechanisms in Quasi-Brittle Materials - S.P. Shah 2012-12-06

A variety of ceramic materials has been recently shown to exhibit nonlinear stress strain behavior. These materials include transformation-toughened zirconia which undergoes a stress-induced crystallographic transformation in the vicinity of a propagating crack, microcracking ceramics, and ceramic-fiber reinforced ceramic matrices. Since many of these materials are under consideration for structural applications, understanding fracture in these quasi-brittle materials is essential. Portland cement concrete is a relatively brittle material. As a result mechanical behavior of concrete, conventionally reinforced concrete, prestressed concrete and fiber reinforced concrete is critically influenced by crack propagation. Crack propagation in concrete is characterized by a fracture process zone, microcracking, and aggregate bridging. Such phenomena give concrete toughening mechanisms, and as a result, the macroscopic response of concrete can be characterized as that of a quasi-brittle material. To design super high performance cement

composites, it is essential to understand the complex fracture processes in concrete. A wide range of concern in design involves fracture in rock masses and rock structures. For example, prediction of the extension or initiation of fracture is important in: 1) the design of caverns (such as underground nuclear waste isolation) subjected to earthquake shaking or explosions, 2) the production of geothermal and petroleum energy, and 3) predicting and monitoring earthquakes. Depending upon the grain size and mineralogical composition, rock may also exhibit characteristics of quasi-brittle materials.

Fracture Mechanics of Concrete - Surendra P. Shah 1995-09-28

FRACTURE MECHANICS OF CONCRETE AND ROCK This book offers engineers a unique opportunity to learn, from internationally recognized leaders in their field, about the latest theoretical advances in fracture mechanics in concrete, reinforced concrete structures, and rock. At the same time, it functions as a superb, graduate-level introduction to fracture mechanics concepts and analytical techniques. Reviews, in depth, the basic theory behind fracture mechanics * Covers the application of fracture mechanics to compression failure, creep, fatigue, torsion, and other advanced topics * Extremely well researched, applies experimental evidence of damage to a wide range of design cases * Supplies all relevant formulas for stress intensity * Covers state-of-the-art linear elastic fracture mechanics (LEFM) techniques for analyzing deformations and cracking * Describes nonlinear fracture mechanics (NLFM) and the latest RILEM modeling techniques for testing nonlinear quasi-brittle materials * And much more Over the past few years, researchers employing techniques borrowed from fracture mechanics have made many groundbreaking discoveries concerning the causes and effects of cracking, damage, and fractures of plain and reinforced concrete structures and rock. This, in turn, has resulted in the further development and refinement of fracture mechanics concepts and tools. Yet, despite the field's growth and the growing conviction that fracture mechanics is indispensable to an understanding of material and structural failure, there continues to be a surprising shortage of textbooks and professional references on the subject. Written by two of the foremost names in the field, *Fracture Mechanics of Concrete* fills that gap. The most comprehensive book ever written on the subject, it consolidates the latest theoretical research from around the world in a single reference that can be used by students and professionals alike. *Fracture Mechanics of Concrete* is divided into two sections. In the first, the authors lay the necessary groundwork with an in-depth review of fundamental principles. In the second section, the authors vividly demonstrate how fracture mechanics has been successfully applied to failures occurring in a wide array of design cases. Key topics covered in these sections include: * State-of-the-art linear elastic fracture mechanics (LEFM) techniques for analyzing deformations and cracking * Nonlinear fracture mechanics (NLFM) and the latest RILEM modeling techniques for testing nonlinear quasi-brittle materials * The use of R-Curves to describe cracking and fracture in quasi-brittle materials * The application of fracture mechanics to compression failure, creep, fatigue, torsion, and other advanced topics The most timely, comprehensive, and authoritative book on the subject currently available, *Fracture Mechanics of Concrete* is both a complete instructional tool for academics and students in structural and geotechnical engineering courses, and an indispensable working resource for practicing engineers.

The Alkali-Silica Reaction in Concrete - R N Swamy 1991-09-01

This book reviews the fundamental causes and spectrum effects of ASR. It considers the advances that have been made in our understanding of this problem throughout the world.

Properties of Concrete - Adam Matthew NEVILLE 1968

Durability of Concrete - Mark Alexander 2017-06-26

This book provides an up-to-date survey of durability issues, with a particular focus on specification and design, and how to achieve durability in actual concrete construction. It is aimed at the practising engineer, but is also a valuable resource for graduate-level programs in universities. Along with background to current philosophies it gathers together in one useful reference a summary of current knowledge on concrete durability, includes information on modern concrete materials, and shows how these materials can be combined to produce durable concrete. The approach is consistent with the increasing focus on sustainability that is being addressed by the concrete industry, with the current emphasis on 'design for durability'.

The Science and Technology of Civil Engineering Materials - J. Francis Young 1998

For one/two-term courses in Introductory Engineering Materials in

departments of civil engineering. Applies the rigor of material science principles to a comprehensive, integrative exploration of the science and technology of construction materials.

Concrete Construction Engineering Handbook - Edward G. Nawy 2008-06-24

The first edition of this comprehensive work quickly filled the need for an in-depth handbook on concrete construction engineering and technology. Living up to the standard set by its bestselling predecessor, this second edition of the *Concrete Construction Engineering Handbook* covers the entire range of issues pertaining to the construction

Handbook on Nondestructive Testing of Concrete - V. M. Malhotra 2004

Civil engineers will value this resource that examines the tools and techniques used to estimate the in-place strength on concrete, permeation properties that relate to potential durability, and the methods used to assess the internal condition of concrete and the corrosion activity of steel reinforcement.

Standard Practice for Concrete - United States. Army. Corps of Engineers 1974

Electricity Retail Wheeling Handbook - John M. Studebaker 2001

This reference book provides a straightforward information resource for the electricity purchaser on how to successfully utilize retail wheeling. Covered in detail are the steps by which the retail wheeling process is implemented, as well as what role agents, marketers and brokers play.

Concrete - Sidney Mindess 1981

Concrete text with a materials science orientation. Presents a unified view of concrete behavior in light of underlying chemical and physical principles.

Design of Prestressed Concrete - Nilson 1987-04-13

Application of Fracture Mechanics to Cementitious Composites - S.P. Shah 2012-12-06

Portland cement concrete is a relatively brittle material. As a result, mechanical behavior of concrete, conventionally reinforced concrete, prestressed concrete, and fiber reinforced concrete is critically influenced by crack propagation. It is, thus, not surprising that attempts are being made to apply the concepts of fracture mechanics to quantify the resistance to cracking in cementitious composites. The field of fracture mechanics originated in the 1920's with A. A. Griffith's work on fracture of brittle materials such as glass. Its most significant applications, however, have been for controlling brittle fracture and fatigue failure of metallic structures such as pressure vessels, airplanes, ships and pipe lines. Considerable development has occurred in the last twenty years in modifying Griffith's ideas or in proposing new concepts to account for the ductility typical of metals. As a result of these efforts, standard testing techniques have been available to obtain fracture parameters for metals, and design based on these parameters are included in relevant specifications. Many attempts have been made, in the last two decades or so, to apply the fracture mechanics concepts to cement, mortar, concrete and reinforced concrete. So far, these attempts have not led to a unique set of material parameters which can quantify the resistance of these cementitious composites to fracture. No standard testing methods and a generally accepted theoretical analysis are established for concrete as they are for metals.

Developments in the Formulation and Reinforcement of Concrete - Sidney Mindess 2019-06-26

Developments in the Formulation and Reinforcement of Concrete, Second Edition, presents the latest developments on topics covered in the first edition. In addition, it includes new chapters on supplementary cementitious materials, mass concrete, the sustainability of concrete, service life prediction, limestone cements, the corrosion of steel in concrete, alkali-aggregate reactions, and concrete as a multiscale material. The book's chapters introduce the reader to some of the most important issues facing today's concrete industry. With its distinguished editor and international team of contributors, users will find this to be a must-have reference for civil and structural engineers. Summarizes a wealth of recent research on structural concrete, including material microstructure, concrete types, and variation and construction techniques Emphasizes concrete mixture design and applications in civil and structural engineering Reviews modern concrete materials and novel construction systems, such as the precast industry and structures requiring high-performance concrete

Fracture and Size Effect in Concrete and Other Quasibrittle Materials - Zdenek P. Bazant 2019-03-04

Fracture and Size Effect in Concrete and Other Quasibrittle Materials is the first in-depth text on the application of fracture mechanics to the analysis of failure in concrete structures. The book synthesizes a vast number of recent research results in the literature to provide a comprehensive treatment of the topic that does not give merely the facts - it provides true understanding. The many recent results on quasibrittle fracture and size effect, which were scattered throughout many periodicals, are compiled here in a single volume. This book presents a well-rounded discussion of the theory of size effect and scaling of failure loads in structures. The size effect, which is the most important practical manifestation of fracture behavior, has become a hot topic. It has gained prominence in current research on concrete and quasibrittle materials. The treatment of every subject in Fracture and Size Effect in Concrete and Other Quasibrittle Materials proceeds from simple to complex, from specialized to general, and is as concise as possible using the simplest level of mathematics necessary to treat the subject clearly and accurately. Whether you are an engineering student or a practicing engineer, this book provides you with a clear presentation, including full derivations and examples, from which you can gain real understanding of fracture and size effect in concrete and other quasibrittle materials.

Multi-Storey Precast Concrete Framed Structures - Kim S. Elliott
2013-10-07

Precast reinforced and prestressed concrete frames provide a high strength, stable, durable and robust solution for any multi-storey structure, and are widely regarded as a high quality, economic and architecturally versatile technology for the construction of multi-storey buildings. The resulting buildings satisfy a wide range of commercial and industrial needs. Precast concrete buildings behave in a different way to those where the concrete is cast in-situ, with the components subject to different forces and movements. These factors are explored in detail in this second edition of *Multi-Storey Precast Concrete Framed Structures*, providing a detailed understanding of the procedures involved in precast structural design. This new edition has been fully updated to reflect recent developments, and includes many structural calculations based on EUROCODE standards. These are shown in parallel with similar calculations based on British Standards to ensure the designer is fully aware of the differences required in designing to EUROCODE standards. Civil and structural engineers as well as final year undergraduate and

postgraduate students of civil and structural engineering will all find this book to be a thorough overview of this important construction technology.

Transmission and Distribution Electrical Engineering - Colin Bayliss 2012-01-31

Chapter 1: System Studies -- Chapter 2: Drawings and Diagrams -- Chapter 3: Substation Layouts -- Chapter 4: Substation Auxiliary Power Supplies -- Chapter 5: Current and Voltage Transformers -- Chapter 6: Insulators -- Chapter 7: Substation Building Services -- Chapter 8: Earthing and Bonding -- Chapter 9: Insulation Co-ordination -- Chapter 10: Relay Protection -- Chapter 11: Fuses and Miniature Circuit Breakers -- Chapter 12: Cables -- Chapter 13: Switchgear -- Chapter 14: Power Transformers -- Chapter 15: Substation and Overhead Line Foundations - Chapter 16: Overhead Line Routing -- Chapter 17: Structures, Towers and Poles -- Chapter 18: Overhead Line Conductor and Technical Specifications -- Chapter 19: Testing and Commissioning -- Chapter 20: Electromagnetic Compatibility -- Chapter 21: Supervisory Control and Data Acquisition -- Chapter 22: Project Management -- Chapter 23: Distribution Planning -- Chapter 24: Power Quality- Harmonics in Power Systems -- Chapter 25: Power Qual ...

Design and Control of Concrete Mixtures - Portland Cement Association
2018-10-12

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Canadian Symposium on Cement and Concrete, 2nd, Vancouver, 24-26 July 1991 - University of British Columbia 1991

Concrete - Sidney Mindess 1998