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IUJ2ZO - TATE NEWTON

The digest describes the different ways in which concrete can be specified, with particular reference to BS 5328 and to CP 110. It discusses the variability of concrete in production, the requirements for quality control and the statistical aspects of testing for compliance with a specification. It describes the main factors influencing the strength and workability of concrete in relation to the mix design method described in Design of normal concrete mixes. Materials for concrete are described in Digest 237. This digest replaces Digest 13 which is now withdrawn.

This publication replaces Road Research Laboratory road note, no. 4, published 1950.

Thoroughly revised and updated, the third edition of this popular textbook continues to provide a comprehensive coverage of the main construction materials for undergraduate students of civil engineering and construction related courses. It creates an understanding of materials and how they perform through a knowledge of their chemical and physical structure, leading to an ability to judge their behaviour in service and construction. Materials covered include; metals and alloys, concrete, bituminous materials, brickwork and blockwork, polymers and fibre composites. Each material is discussed in terms of: structure; strength and failure; durability; deformation; practice and processing. The sections on concrete, polymers and fibre composites have been significantly revised. Descriptions of important properties are related back to the structure and forward to basic practical considerations. With its wealth of illustrations and reader-friendly style and layout Construction Materials.

The concrete industry has embraced innovation and ensured high levels of long-term performance and sustainability through creative applications in design and construction. As a construction material, the versatility of concrete and its intrinsic benefits mean it is still well placed to meet challenges of the construction industry. Indeed, concrete

Concrete will be the key material for Mankind to create the built environment of the next millennium. The requirements of this infrastructure will be both demanding, in terms of technical performance and economy, and yet be greatly varied, from architectural masterpieces to the simplest of utilities.Concrete durability and repair technology forms the Proceedings of the three day International Conference held during the Congress, Creating with Concrete, 6-10 September 1999, organised by the Concrete technology Unit, University of Dundee.

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.

Design and Construction of Concrete Floors outlines the key principles needed for the production of a good floor which can be relied on to not only support and restrain other parts of the building, but also to meet the needs of the user.The book covers:* Uses of concrete floors* Structural design* Concrete used specifically for floors* Cracks and j

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- Preface - Introduction - Organising Committee - Scientific and Technical Committee - Collaborating Institutions - Sponsoring Organisations With Exhibition - Exhibiting Organisations - Supporting Institutions - Opening Paper - Introduction to Foamed Concrete (What? Why? How?) THEME 1 MATERIALS, PROPERTIES AND PRODUCTION CHARACTERISTICS Keynote Paper - Exploitation of Solid Wastes with Foamed Concrete - Challenges Ahead - Production of Foamed Concrete with High Calcium Fly Ash - Designing Mix Composition of Foamed Concrete with High Fly Ash Contents - Optimisation of Foamed Concrete Mix of Different Sand-Cement Ratio and Curing Conditions - New Innovative Lightweight Foam Concrete Technology - Investigations into the Air Void Characteristics of Foamed Concrete THEME 2 SPECIFICATION FOR FOAMED CONCRETE, APPLICATIONS AND CASE STUDIES Keynote Paper - Behaviour and Assessment of Foamed Concrete for Fill and Highway Applications - The Use of Foamed Concrete in Refractories - Heat-Resistant Cellular Concretes Based on Alkaline Cements -

Major Road and Bridge Projects with Foam Concrete - Unautoclaved Foam Concrete and its Constructions, Adopted to the Regional Conditions - Assessment of Pre-Cast Foamed Concrete as Support Medium in Deep Level Mining - Stabilisation of Old Mine Workings: A Case Study of the Use of Foamed Concrete in Combe Down Stone Mines - Closing Paper - Index of Authors - Subject Index

The second edition of this best-selling book remains the standard guide on concrete mix design. Amendments have been made to allow for changes in the terminology and materials used.
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. ·
This highly successful textbook has been comprehensively revised for two main reasons: to bring the book up-to-date and make it compatible with BS8110 1985; and to take into account the increasing use made of microcomputers in civil engineering. An important new chapter on microcomputer applications has been added.

Part 1. Concrete usually has to meet one or more of four functional requirements: strength, durability, fire protection and thermal insulation. The ability of concrete to meet specified requirements depends on the correct selection of materials as we as on good

practice on site. There is a wide range of cements and aggregates from which to choose. This digest brings up to date the information about their main characteristics and the properties of concretes made from them. Part 2 of this Digest, No 326, describes specification, design and quality control of concrete. The two Digests together replace Digests 23 7 and 244 which are now withdrawn. Part 2. The digest describes ways in which concrete can be specified, with particular reference to BS 5328 and to BS 81 10. It discusses the variability of concrete in production, the requirements for quality control and the statistical aspects of testing for compliance with a specification. It describes the main factors influencing the strength and workability of concrete in relation to the mix design method described in Design of normal concrete mixes. Materials for concrete are described in Digest 325.

Basically, the problem of designing a concrete mix consists of selecting the correct proportions of cement, fine and coarse aggregate and water to produce concrete having the specified properties. Sometimes additional ingredients such as ground granulated blastfurnace slag (ggbfs), pulverized-fuel ash (pfa), or admixtures are used. There are many properties of concrete that can be specified, e.g. workability, strength, density, thermal characteristics, elastic modulus, and durability requirements. The properties most usually specified are: the workability of the fresh concrete; the compressive strength at a specified age; and the durability, by means of specifying the minimum cement content and/or the maximum free-water/cement ratio, and in some cases requiring the use of selected types of materials.

A well-known and respected standard reference, this fifth edition provides a thorough treatment of the properties of building materials and their manufacture, both on-site and in the factory.

The new edition of this successful manual has been carefully revised throughout to take account of recent changes and to incorporate amendments required due to the publication of the revised BS 5328. This manual provides information on all aspects of the ready-mixed concrete industry, from the basic materials and their properties to the production,

Describing the nature of the marine environment and the effects of man-made structures on the behaviour of the sea, this books deals with hydraulic design, the material properties of concrete and the design and specification of structures for coastal environments.

The Romans used an early type of concrete made with natural pozzuolanic cement more than 2,000 years ago. Today, Portland Cement Concrete is the most important material of construction. Yet few books, if any, exist that offer an in-depth analysis of the mixing and testing methods of this vital hydraulic cement. Until now that is. Engineered Concret

This book will provide an up-to-date and comprehensive basis for undergraduate courses in structural concrete and concrete materials taken by students in civil and structural engineering. Its numerous design tables and graphs, together with extracts from BS8110 and the Department of the Environment publication Design of Normal Concrete Mixes will also make it an important book for all practising professionals and those involved in graduate-level studies. A quick glance at the author's contents list will reveal the comprehensive nature of the book. In particular the book covers the philosophy and practice of structural design, con-

crete material properties and the design of concrete mixes, reinforced concrete beams and slabs (including the Johansen and Hillerborg methods of slab analysis and design), concrete columns and walls, and reinforced concrete frames. The final three chapters cover very important material on prestressed concrete, shell roofs and folded plate roofs. An appendix also provides many useful tables from BS8110, in addition to those included in the text. Professor Wilby's qualifications, experience and reputation make him an ideal author, and in fact the present volume builds upon, up-dates and expands his previous book Structural Concrete. He has personally taught much of the material covered, and provides a great number of worked examples. The student is shown how to design practical structures, and how to set out calculations as required in practice. All the author's work is in accordance with BS8110. Undergraduates, graduate students and professionals alike will benefit greatly from this book.

The nature of concrete is rapidly changing, and with it, there are rising concerns. Thoroughly revised and updated, this fourth edition of Concrete Mix Design, Quality Control and Specification addresses current industry practices that provide inadequate durability and fail to eliminate problems with underperforming new concrete and defective testi

Covers foundations, paving - vehicular and pedestrian, steps and ramps, margins and edges, kerbs and wheelstops and drainage channels. The book is a reference for landscape designers

As every civil engineer knows, Portland Cement is the most versatile and important material of construction, and will probably remain so far into the future. Yet few books, if any, exist that offer an in-depth analysis of the mixing and testing methods of this vital hydraulic cement. This statement, written about the first edition of Engineere

The complexity of specifications and the number of materials options available today for concrete production mean that the traditional procedure of making trial mixes is now unnecessary, expensive and time consuming. Using J.D Dewar's research, this book shows how a small amount of materials data can be used confidently to predict the composition o

Elevated temperatures are known to affect the properties of both fresh and hardened concrete. This book describes in detail these effects and explains the mechanisms involved with particular reference to their practical aspects.

Based on the Institute of Concrete Technology's advanced course, this new four volume series is a comprehensive educational and reference resource for the concrete materials technologist. An expert international team of authors from research, academia and industry has been brought together to produce this unique reference source. Each volume deals with different aspects of the properties, composition, uses and testing of concrete. With worked examples, case studies and illustrations throughout, this series will be a key reference for the concrete specialist for years to come. Expert international authorship ensures the series is authoritative Case studies and worked examples help the reader apply their knowledge to practice Comprehensive coverage of the subject gives the reader all the necessary reference material

This new edition of a highly practical text gives a detailed presentation of the design of common reinforced concrete structures to

limit state theory in accordance with BS 8110.
As a ready reference for landscape designers and as an indispensable time-saving tool, Landscape Detailing is an essential for the design office. Each section begins with technical guidance notes on design and construction and then provides a list of points against which specifications can be checked. This is followed by a set of drawn-to-scale details sheets. These details can be traced for direct incorporation into the set of contract drawings. A list of relevant British Standards, references, bibliography and a list of associations and institutions indicate where further guidance can be obtained.

Cement-Based Composites takes a different approach from most other books in the field by viewing concrete as an advanced composite material, and by considering the properties and behaviour of cement-based materials from this stance. It deals particularly, but not exclusively, with newer forms of cement-based materials. This new edition takes a critical approach to the subject as well as presenting up-to-date knowledge. Emphasis is given to non--conventional reinforcement and design methods, problems at the materials' interfaces and to the durability of structures. High strength composites and novel forms of cement-based composites are described in detail. After a basic introduction the book explores the various components of these materials and their properties. It then deals with mechanical properties and considers characteristics under various loading and environmental conditions, and concludes by examining design, optimization and economics with particular emphasis on high-performance concretes. Researchers, graduate students and practising engineers will find this book valuable.
Based on the Institute of Concrete Technology's Advanced Concrete Technology Course, these four volumes are a comprehensive educational and reference resource for the concrete materials technologist. An expert international team of authors from research, academia and industry has been brought together to produce this unique series. Each volume deals with a different aspect of the subject: constituent materials, properties, processes and testing and quality. With worked examples, case studies and illustrations throughout, the books will be a key reference for the concrete specialist for years to come. * Expert international authorship ensures the series is authoritative * Case studies and worked examples help the reader apply their knowledge to practice * Comprehensive coverage of the subject gives the reader all the necessary reference material
An examination of creative systems in structural and construction engineering taken from conference proceedings. Topics covered range from construction methods, safety and quality to seismic response of structural elements and soils and pavement analysis.