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Supervision of Concrete Construction 2 - J.G. Richardson 2003-09-02
This book should be of interest to construction site managers and supervisors; concrete technologist; testing organisations. It covers steel reinforcement, batching and mixing, readymix, handling and transporting, pumping, placing, curing, QC, precast, prestressed, special techniques, repair and some background mathematics.
Materials for Architects and Builders - Arthur Lyons 2014-08-21
Materials for Architects and Builders provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key physical properties, specification and uses. Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture-related courses, and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout. This new edition has been completely revised and updated to include the latest developments in materials research, new images, appropriate technologies and relevant legislation. The ecological effects of building construction and lifetime use remain an important focus, and this new edition includes a wide range of energy saving building components.
Engineer's Year-book of Formulae, Rules, Tables, Data &

Memoranda - 1999

Civil Engineering - 1987

Materials in Construction - G. D. Taylor 2013-10-23
Materials in Construction: An Introduction presents a clear and accessible introduction to the principles, practice and performance of construction materials. This new edition is being published as a companion to G. D. Taylor's Materials in Construction: Principles, Practice and Performance - an advanced text that will develop the topics presented in this book. The coverage of a wide range of construction materials provides a comprehensive foundation to the subject, and includes an overview of performance characteristics and standards for many materials. The text also reviews material properties, and examines and evaluates modes of deterioration while emphasising preventative techniques and remedial treatment. Throughout the text carefully devised example experiments and questions support the theory and practical information. Materials in Construction is an essential handbook for any student studying materials as part of a construction course at BTEC NC/D, HNC/D and undergraduate level.
Advanced Concrete Technology 4 - John Newman 2003-08-21

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

Kempe's Engineer's Year-book - 1988

Civil Engineer's Reference Book - 1994-03-21

After an examination of fundamental theories as applied to civil engineering, authoritative coverage is included on design practice for certain materials and specific structures and applications. A particular feature is the incorporation of chapters on construction and site practice, including contract management and control.

Materials for Architects and Builders - Arthur R. Lyons 1997

Throughout, the book is clearly illustrated with many photographs and diagrams showing materials and building components both individually and in use. Where relevant the environmental aspects of the building materials are considered. Each chapter lists the up-to-date British and European Standards together with related Building Research Establishment publications and suggested further reading. A selection of colour images illustrates the appropriate use of different construction materials within the context of quality architectural design. * Essential reading for students of building, architecture and construction * Extensive coverage of all types of building materials * Key introductory text

Building Materials and Technology in Hong Kong □□□□□□□□□ - Wong Wah Sang 2018-01-11

This book is a thorough documentation of tectonics in the Hong Kong construction industry. It looks at how buildings have been designed and built in a high-density city in a subtropical climate. Written in both Chinese and English, it covers almost all aspects of building materials and technology in Hong Kong with a succinct sequence that follows the construction process of a building project. The case studies in Chapter 3 brings together 16 local projects, which embrace a wide range of building types: from single-storey buildings to high-rise towers, from private development to public institutional construction, from office to residence, and provide invaluable information on the application of building materials and technology. While it is intended primarily for students in architecture, surveying, and construction, Building Materials and Technology in Hong Kong is an indispensable reference for professionals and practitioners who are dealing with building design and construction. Those with a general interest in building construction will also find this highly illustrated book an interesting and engaging read.

Specification for Tunnelling - British Tunnelling Society 2000

This Specification for Tunnelling has been completely updated to refelct the many significant changes in tunnelling techniques. It is written to be used as a contract specification on its own, or in conjunction with other standard specifications on multi-disciplinary projects. The original Model Specification for Tunnelling was the first document produced for the industry with the specific aim of establishing a common standard for the design and construction of tunnelling in the UK. This new edition continues to draw heavily on the practical experience of both corporate and individual members of the British Tunnelling Society, and provides a sound basis for specifying tunnelling design and construction. This updated specification is a considerable advance on the original, and should continue to be the de facto standard for tunnelling in the UK.

Fresh Concrete - P. Bartos 2013-10-22

Fresh concrete is generally featured in publications on concrete technology where the focus is often on fundamental rheology or diverse research methods, or the standards describe the tests but do not provide

practical advice on interpretation of the results. This book aims to fill the gap between highly scientific and fundamental works and the many fragmented test specifications. It summarises the existing knowledge on the properties of fresh concrete in a form accessible to practicing engineers and concrete technologists. It includes a manual of practical tests which cover both the standard tests in major countries and new tests specifically applicable to site testing. The testing equipment required and the procedures are described in sufficient detail for the tests to be carried out, with references to selected national standards when compliance with specific conditions applicable in those countries is required. Particular attention is paid to properties of special fresh concrete mixes which are increasingly used in practical construction. The work will be of interest to engineers and others involved in the research, development, design and execution of concrete construction, including those working in EEC countries.
Concrete - 1994

BSI Catalogue - 1995

Teknologi Konkrit - 2012

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 he advances that have been made in our understanding of this problem throughout the world.
Kempe's Engineers Year-book - 1992

The Structural Engineer - 1985

Standards Catalogue - 1998

Supervision of Concrete Construction 1 - Dr J Richardson 1986-09-26
These two volumes provide authoritative guidance on all aspects of concrete construction from the point of view of the supervisor responsible for the work on site. They will also be of value to the section manager, foreman, clerk of works as well as to the design and construction engineer who need to understand the basic principles of good concrete

Workability and Quality Control of Concrete - G H Tattersall 2003-09-02
Fresh concrete must be produced with the properties required for its intended applications, for example, it must be workable enough to flow into formwork, and to be compacted. This book deals with the measurement of the flow properties of fresh concrete and the factors which affect its workability. Aspects of concrete mixes and control of manufacture to produce optimum properties which relate to workability are covered.

Concrete and Masonry Movements - Jeffrey Brooks 2014-08-23
Widely used in the construction of bridges, dams and pavements, concrete and masonry are two of the world’s most utilized construction materials. However, many engineers lack a proper understanding of the methods for predicting and mitigating their movements within a structure. Concrete and Masonry Movements provides practical methods for predicting and preventing movement in concrete and masonry, saving time and money in retrofitting and repair cost. With this book in hand, engineers will discover new prediction models for masonry such as: irreversible moisture expansion of clay bricks, elasticity, creep and shrinkage. In addition, the book provides up-to-date information on the codes of practice. Provides mathematical modelling tools for predicting movement in masonry Up-to-date knowledge of codes of practice methods Clearly explains the factors influencing all types of concrete and masonry movement Fully worked out examples and set problems are included at the end of each chapter
Practical Building Conservation - 2012
A great deal of research and literature has been produced on repairing concrete structures, but very little aimed at conserving the character or appearance of historic examples. This volume offers guidance as to how that should be done. It includes a brief history of the use of the material

and explains the criteria for listing, before assessing decay mechanisms and determining appropriate repair strategies.

Testing of Concrete in Structures, Third Edition - J.H. Bungey 2010-09-03

This book provides a comprehensive overview of the techniques involved in testing concrete in structures. The non-specialist civil engineer involved in assessment, repair or maintanance of concrete structures will find this a thorough update of the second edition, with an expansion of those areas where recent developments have made significant advances, for example in integrity assessment.

Laboratory Tests on High-Friction Surfaces for Highways - J.C. Nicholls 1999-02-10

- Executive summary - Abstract - Introduction - Test Methods - Test programme - Conclusion - Acknowledgements - References - Appendix A: Requirements for Asphalt slabs - Appendix B: Requirements for Concrete slabs - Appendix C: Procedure for applying High-friction surfaces and the measurement of the surfacing thickness - Appendix D: Test procedure for determination of texture depth - Appendix E: Test procedure for determination of skid resistance value - Appendix F: Test procedure for determination of the degree of erosion and visual observations - Appendix G: Test procedure for scuffing - Appendix H: Test procedure for wear - Appendix J: Test procedure for tensile adhesion - Appendix K: Procedure for heat-ageing conditioning - Appendix L: Procedure of freeze-thaw conditioning - Appendix M: Procedure for diesel susceptibility conditioning - Appendix N: Test procedure for determination of thermal movement - Appendix P: Test procedure for optional tests - Appendix Q: Test procedure for determination of resistance to peeling - Appendix R: Procedure for visual assessment of trial sites

Proceedings of the Institution of Civil Engineers - 2005

Handbook of Analytical Techniques in Concrete Science and Technology - V.S. Ramachandran 2000-11-01

Measuring the long-term durability of new types of concrete and concrete technologies is crucial to their acceptance in the marketplace. This long-needed handbook of analytical techniques provides a complete reference to the cutting-edge procedures used to test today's innovative materials. Ranging from chemical and thermal analysis, to IR and Nuclear Magnetic Resonance spectroscopy, to Scanning Electron Microscopy, x-ray diffraction, computer modeling and more, the book provides first-hand explanations of modern methodsùcontributed by 24 leading scientists, many of whom actually developed or refined the techniques. The book includes many analytic techniques, applied to a wide range of organic, inorganic and composite materials and additives. Perfect for practitioners, students, and professional standards writers, the handbook is highly useful for scrutinizing materials in a variety of environments. It takes into account the many factors that affect the qualities of concreteùtemperature, pore and pore-size distribution, surface area, and exposureùgathering diverse evaluation methods into one convenient resource.

Concrete in Coastal Structures - R. T. L. Allen 1998

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.

Alkali-Aggregate Reaction in Concrete - Ian Sims 2017-08-01

Alkali-Aggregate Reaction in Concrete: A World Review is unique in providing authoritative and up to date expert information on the causes and effects of Alkali-Aggregate Reaction (AAR) in concrete structures worldwide. In 1992 a first edition entitled The Alkali-Silica Reaction in Concrete, edited by Professor Narayan Swamy, was published in a first attempt to cover this concrete problem from a global perspective, but the coverage was incomplete. This completely new edition offers a fully updated and more universal coverage of the world situation concerning AAR and includes a wealth of new evidence and research information that has accumulated in the intervening years. Although there are various textbooks offering readers sections that deal with AAR deterioration and damage to concrete, no other single book brings together the views of recognised international experts in the field, and

the wealth of scattered research information that is available. It provides a ‘state of the art’ review and deals authoritatively with the mechanisms of AAR, its diagnosis and how to treat concrete affected by AAR. It is illustrated by numerous actual examples from around the world, and comprises specialist contributions provided by senior engineers and scientists from many parts of the world. The book is divided into two distinct but complementary parts. The first five chapters deal with the most recent findings concerning the mechanisms involved in the reaction, methods concerning its diagnosis, testing and evaluation, together with an appraisal of current methods used in its avoidance and in the remediation of affected concrete structures. The second part is divided into eleven chapters covering each region of the world in turn. These chapters have been written by experts with specialist knowledge of AAR in the countries involved and include an authoritative appraisal of the problem and its solution as it affects concrete structures in the region. Such an authoritative compilation of information on AAR has not been attempted previously on this scale and this work is therefore an essential source for practising and research civil engineers, consultant engineers and materials scientists, as well as aggregate and cement producers, designers and concrete suppliers, especially regarding projects outside their own region.

Exploiting Wastes in Concrete - Ravindra K. Dhir 1999

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.Exploiting wastes in concrete forms the Proceedings of the one day International Seminar held during the Congress, Creating with concrete, 6-10 September 1999, organised by the concrete technology unit, University of Dundee.

Testing of Concrete in Structures - John H. Bungey 2006-09-27

Providing a comprehensive overview of the techniques involved in testing concrete in structures, Testing of Concrete in Structures discusses both established techniques and new methods, showing potential for future development, and documenting them with illustrative examples. Topics have been expanded where significant advances have taken place in the field, for example integrity assessment, sub-surface radar, corrosion assessment and localized dynamic response tests. This fourth edition also covers the new trends in equipment and procedures, such as the continuation of general moves to automate test methods and developments in digital technology and the growing importance of performance monitoring, and includes new and updated references to standards. The non-specialist civil engineer involved in assessment, repair or maintenance of concrete structures will find this a thorough update.

Advanced Concrete Technology Set - John Newman 2003-11-06

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

Concrete International - 2003

Repair of Concrete Bridges - G. P. Mallett 1994

Provides a review of the repair, maintenance and protection of concrete bridges. This book summarizes information from conference papers, research and technical reports, and others. It aims to increase the expertise of structural engineers and safeguard the investment. It presents solutions to the problems and pitfalls that engineers encounter.

Stabilization and Solidification of Hazardous, Radioactive, and Mixed Wastes - Roger D. Spence 2004-12-28

The development of stabilization and solidification techniques in the field of waste treatment reflects the efforts to better protect human health and the environment with modern advances in materials and technology. Stabilization and Solidification of Hazardous, Radioactive, and Mixed Wastes provides comprehensive information including case studies, selection criteria, and regulatory considerations on waste characterization, contaminant transport and leachability, testing methods for stabilized waste forms, and the interactions between contaminants and stabilizing components. The book describes various systems based on cement technology that are used for stabilization and solidification of wastes. It demonstrates how to design a stabilized waste form, including the use of statistical techniques for generating response surface models for large, complicated applications. It provides guidelines for the selection of bonding materials, such as hydraulic cements, polymers, and hydroceramics, and discusses several additives and sorbents used to enhance immobilization, binder properties, and contaminant stabilization. The book portrays the transport mechanisms of contaminants in treated wastes and how to predict the transport of contaminants with various mathematical models. Following a discussion of waste types, principles, and properties of cemented waste forms, such as microstructure and durability, it outlines the test methods used to evaluate them. Fusing research, technology, and general practice principles taken from the firsthand experience of scientists, engineers, regulators, and teachers, Stabilization and Solidification of Hazardous, Radioactive, and Mixed Wastes can be used in advanced environmental engineering courses and as a reference for stabilization and solidification engineers, technology vendors and buyers, laboratory technicians, scientists, environmentalists, policymakers, and managers in treatment storage and disposal facilities.

BSI Standards Catalogue - 1997

Building Regulations Explained - London District Surveyors Association 2013-05-13

This fully revised essential reference takes into account all important aspects of building control, including new legislation up to Spring 2000 with important revisions to parts B, K, M and N. Each chapter explains the approved document. Publication lists and relevant sources of information are also included, together with annexes devoted to legislation relevant to the construction industry, determinations made by the Secretary of State and sample check lists. Building Regulations Explained will be of wide appeal to architects, planners, surveyors, builders, building control professionals (including new non-NHBC approved inspectors), regulators and students.

Construction Materials Reference Book - David Doran 1994

Aggregates - Mick R. Smith 2001

Products and Services Catalogue - 2001