

Mechanisms of Chemical Degradation of Cement-based Systems

Edited by
K.L. Scrivener
and J.F. Young



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Mechanisms Of Chemical Degradation Of Cement Based Systems

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Mechanisms Of Chemical Degradation Of Cement Based Systems:

Mechanisms of Chemical Degradation of Cement-based Systems K.L. Scrivener, J.F. Young, 1997-04-17 Deterioration of cement based materials is a continuing problem as it results in the substantial shortening of the lives of conventional concrete structures The main costs result from poor performance and the need for early repair With more advanced applications where very long service lives are essential such as the storage of nuclear waste Mechanisms of Chemical Degradation of Cement-based Systems K.L. Scrivener, J.F. Young, 1997-04-17 Deterioration of cement based materials is a continuing problem as it results in the substantial shortening of the lives of conventional concrete structures The main costs result from poor performance and the need for early repair With more advanced applications where very long service lives are essential such as the storage of nuclear waste an understanding of the degradation processes in order to predict long term performance is very important this book forms the proceedings of the latest Symposia at the Materials Research Society Autumn meeting in Boston **Report 38: Durability of Self-Compacting Concrete - State-of-the-Art Report of RILEM Technical Committee 205-DSC** Geert De Schutter, Katrien Audenaert, 2007 *Advanced Composites in Bridge Construction and Repair* Yail Jimmy Kim, 2014-05-16 Advanced composite materials for bridge structures are recognized as a promising alternative to conventional construction materials such as steel After an introductory overview and an assessment of the characteristics of bonds between composites and quasi brittle structures *Advanced Composites in Bridge Construction and Repair* reviews the use of advanced composites in the design and construction of bridges including damage identification and the use of large rupture strain fiber reinforced polymer FRP composites The second part of the book presents key applications of FRP composites in bridge construction and repair including the use of all composite superstructures for accelerated bridge construction engineered cementitious composites for bridge decks carbon fiber reinforced polymer composites for cable stayed bridges and for repair of deteriorated bridge substructures and finally the use of FRP composites in the sustainable replacement of ageing bridge superstructures *Advanced Composites in Bridge Construction and Repair* is a technical guide for engineering professionals requiring an understanding of the use of composite materials in bridge construction Reviews key applications of fiber reinforced polymer FRP composites in bridge construction and repair Summarizes key recent research in the suitability of advanced composite materials for bridge structures as an alternative to conventional construction materials *Durability of Concrete and Cement Composites* Chris L. Page, M M Page, 2007-06-30 Whilst most structures made using concrete and cement based composites have not shown signs of premature degradation there have been notable exceptions In addition there is increasing pressure for new structures to remain in serviceable condition for long periods with only minimal maintenance before being recycled All these factors have highlighted the issues of what affects the durability of these materials in different circumstances and how material properties can be measured and improved *Durability of concrete and cement composites* summarises key research on these important topics After an

introductory chapter the book reviews the pore structure and chemistry of cement based materials providing the foundation for understanding the particular aspects of degradation which are discussed in the following chapters These include dimensional stability and cracking processes chemical and microbiological degradation of concrete corrosion of reinforcing and prestressing steels deterioration associated with certain aggregates effects of frost and problems involving fibre reinforced and polymer cement composites With its distinguished international team of contributors *Durability of concrete and cement composites* is a standard reference for all those concerned with improving the service life of structures using these materials Analyses a range of materials such as reinforced steel in concrete pre stressed concrete and cement composites Discusses key degradation phenomena such as cracking processes and the impact of cold weather conditions A standard reference for those concerned with improving the service life of structures using concrete and cement based composites

Transport Properties and Concrete Quality Barzin Mobasher, Jan P. Skalny, 2006-12-22 This title is based on the workshop on Transport Properties Concrete Quality held at the campus of Arizona State University on October 10 12 2005 During this meeting scientific aspects of the relevant relationships between materials mechanisms processes and service life were discussed Provides a useful resource for understanding the most valuable aspects of cement based materials with topics ranging from the current state of practice to theory simulation and testing and specifications Logically organized and carefully selected articles give insight into the need to better integrate aspects of materials science mechanics modeling and testing in developing tools of understanding the durability in cement based materials

Engineering and Transport Properties of the Interfacial Transition Zone in Cementitious Composites International Union of Testing and Research Laboratories for Materials and Structures, 1999

Concrete Durability Thomas Dyer, 2014-05-01 Written specifically for the young professional and addressing a growing need for a long service life with minimal maintenance Concrete Durability takes a whole new look at the whole life performance of structures This text examines physical and chemical issues that can threaten the durability of concrete It explores available options for achieving

Green Infrastructure and Construction for Sustainable Future Ghassan Fouad Aouad, Mahmoud Yousef Ghoneim, Evan K. Paleologos, Hamdi Sheibani, 2025-05-15 This book explores the strategies frameworks and innovations that promote sustainable urban transportation systems It examines how cities can reduce their carbon footprint improve air quality and enhance the quality of life for residents by adopting sustainable transport solutions The book focuses on integrating environmental social and economic aspects to create transportation systems that are efficient accessible and eco friendly Topics covered may include the implementation of green public transport the role of technology in smart transportation and the challenges of transitioning to sustainable urban mobility in different regions Also it explores the advancements and practices that support sustainability in the construction sector particularly in the development and improvement of concrete Furthermore it covers the use of eco friendly materials innovative construction techniques and strategies to minimize the environmental impact of construction activities Special

attention is given to the durability efficiency and sustainability of concrete including the use of industrial byproducts recycled materials and novel binders The discussion also includes the performance of new construction methods such as 3D printing and their potential to revolutionize sustainable building practices This book focuses on the principles and practices of green building and the role of energy efficiency in achieving sustainable construction goals It explores the use of renewable materials energy efficient designs and smart technologies in creating buildings that minimize environmental impact while maximizing comfort and utility The topic also addresses the decarbonization of the building sector highlighting the importance of reducing energy consumption through advanced building automation systems and innovative construction techniques The future of green building including the potential of 3D printed structures and other technologies is also examined

Interfacial Transition Zone in Cementitious Composites A. Katz, Arnon Bentur, Mark Alexander, G. Arliguie, 2004-03-01 This book addresses the need to resolve the ITZ's influence on engineering and durability characteristics of cementitious composites identifies the systems and properties that are affected by it and quantifies these effects in order to prepare the base for engineering design tools This volume presents the proceedings of the Second International RI

Current Perspectives and New Directions in Mechanics, Modelling and Design of Structural Systems Alphonse Zingoni, 2022-09-02 Current Perspectives and New Directions in Mechanics Modelling and Design of Structural Systems comprises 330 papers that were presented at the Eighth International Conference on Structural Engineering Mechanics and Computation SEMC 2022 Cape Town South Africa 5-7 September 2022 The topics featured may be clustered into six broad categories that span the themes of mechanics modelling and engineering design i mechanics of materials elasticity plasticity porous media fracture fatigue damage delamination viscosity creep shrinkage etc ii mechanics of structures dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii numerical modelling and experimental testing numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber v innovative concepts sustainable engineering and special structures nanostructures adaptive structures smart structures composite structures glass structures bio inspired structures shells membranes space structures lightweight structures etc vi the engineering process and life cycle considerations conceptualisation planning analysis design optimization construction assembly manufacture maintenance monitoring assessment repair strengthening retrofitting decommissioning Two versions of the papers are available full papers of length 6 pages are included in the e book while short papers of length 2 pages intended to be concise but self contained summaries of the full papers are in the printed book This work will be of interest to civil structural mechanical marine and aerospace engineers as well as planners and architects

Cementitious Materials Herbert Pöllmann, 2017-12-18 Aside from water the materials which are used by mankind in

highest quantities are cementitious materials and concrete. This book shows how the quality of the technical product depends on mineral phases and their reactions during the hydration and strengthening process. Additives and admixtures influence the course of hydration and the properties. Options of reducing the CO₂ production in cementitious materials are presented and numerous examples of anhydrous and hydrous phases and their formation conditions are discussed. This editorial work consists of four parts including cement composition and hydration. Special cement and binder mineral phases. Cementitious and binder materials and Measurement and properties. Every part contains different contributions and covers a broad range within the area.

Contents

Part I: Cement composition and hydration

- Diffraction and crystallography applied to anhydrous cements
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- Synthesis of highly reactive pure cement phases
- Thermodynamic modelling of cement hydration
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- Composition and properties of ternary binders

Part IV: Measurement and properties

- Characterization of microstructural properties of Portland cements by analytical scanning electron microscopy
- Correlating XRD data with technological properties
- No cement production without refractories

Structure and Performance of Cements, Second Edition P. Barnes, J. Bensted, 2002-11-01

Drawing together a multinational team of authors this second edition of *Structure and Performance of Cements* highlights the latest global advances in the field of cement technology. Three broad categories are covered: basic materials and methods; cement extenders and techniques of examination. Within these categories consideration has been given to environmental issues such as the use of waste materials in cement burning as supplementary fuels and new and improved methods of instrumentation for examining structural aspects and performance of cements. This book also covers cement production, mineralogy and hydration as well as the mechanical properties of cement and the corrosion and durability of cementitious systems. Special cements are included along with calcium aluminate and blended cements together with a consideration of the role of gypsum in cements.

Structure and Performance of Cements is an invaluable key reference for academics, researchers and practitioners alike.

PRO 38: 3rd International RILEM Workshop on Testing and Modelling the Chloride Ingress into Concrete Carmen Andrade, Jörg Kropp, 2004

Biodeterioration of Concrete Thomas Dyer, 2017-07-12

Awareness of the importance of ensuring durability of concrete has been a growing concern of engineers and there is now considerable understanding of the mechanisms which cause its deterioration and means of limiting such damage through the use of appropriate materials and approaches to design. Many of the deterioration mechanisms which

affect concrete are the result of interaction with the non living environment chlorides in seawater carbon dioxide in the atmosphere cyclic freezing and thawing However living organisms can also cause damage through both chemical and physical processes which under the right conditions can be severe This book looks at all forms of concrete biodeterioration together for the first time It examines from a fundamental starting point biodeterioration mechanisms as well as the conditions which allow living organisms bacteria fungi plants and a range of marine organisms to colonise concrete A detailed evaluation of chemical compounds produced by living organisms with respect to their interaction with the mineral constituents of concrete and the implications it has for the integrity of structures is also included Approaches to avoiding biodeterioration of concrete are also covered including selection of materials mix proportioning design and use of protective systems

Naturally Occurring Radioactive Materials in Construction Wouter Schroevers, 2017-05-23 Naturally Occurring Radioactive Materials in Construction COST Action NORM4 Building discusses the depletion of energy resources and raw materials and its huge impact not only on the building market but also in the development of new synthetic building materials whereby the reuse of various waste residue streams becomes a necessity It is based on the outcome of COST Action TU 1301 where scientists regulators and representatives from industry have come together to present new findings sharing knowledge experiences and technologies to stimulate research on the reuse of residues containing enhanced concentrates of natural radionuclides NORM in tailor made building materials Chapters address legislative issues measurement and assessment of building materials physical and chemical aspects from raw materials to residues with enhanced concentrations of natural radionuclides NORM processes building products containing NORM and end of life and reuse requirements Presents a holistic approach in developing new reuse pathways involving experts on different technical chemical physical ecological economical and radiological aspects of materials Provides practical guidance that address questions and comments regarding the EU BSS standards linked to the processing of NORM in building materials Investigates realistic legislative scenarios Primarily aimed at industry and actors linked to the industry but also researchers Contains a strong international network of expert authors and internal reviewers for each chapter

PRO 25: International RILEM Workshop on Frost Damage in Concrete Donald J. Janssen, Max J. Setzer, Mark B. Snyder, 2002

Handbook of Advanced Radioactive Waste Conditioning Technologies Michael I. Ojovan, 2011-01-24 Radioactive wastes are generated from a wide range of sources including the power industry and medical and scientific research institutions presenting a range of challenges in dealing with a diverse set of radionuclides of varying concentrations Conditioning technologies are essential for the encapsulation and immobilisation of these radioactive wastes forming the initial engineered barrier required for their transportation storage and disposal The need to ensure the long term performance of radioactive waste forms is a key driver of the development of advanced conditioning technologies The Handbook of advanced radioactive waste conditioning technologies provides a comprehensive and systematic reference on the various options available and under development for

the treatment and immobilisation of radioactive wastes The book opens with an introductory chapter on radioactive waste characterisation and selection of conditioning technologies Part one reviews the main radioactive waste treatment processes and conditioning technologies including volume reduction techniques such as compaction incineration and plasma treatment as well as encapsulation methods such as cementation calcination and vitrification This coverage is extended in part two with in depth reviews of the development of advanced materials for radioactive waste conditioning including geopolymers glass and ceramic matrices for nuclear waste immobilisation and waste packages and containers for disposal Finally part three reviews the long term performance assessment and knowledge management techniques applicable to both spent nuclear fuels and solid radioactive waste forms With its distinguished international team of contributors the Handbook of advanced radioactive waste conditioning technologies is a standard reference for all radioactive waste management professionals radiochemists academics and researchers involved in the development of the nuclear fuel cycle Provides a comprehensive and systematic reference on the various options available and under development for the treatment and immobilisation of radioactive wastes Explores radioactive waste characterisation and selection of conditioning technologies including the development of advanced materials for radioactive waste conditioning Assesses the main radioactive waste treatment processes and conditioning technologies including volume reduction techniques such as compaction

Geopolymers J L Provis, J S J van Deventer, 2009-06-22 A geopolymer is a solid aluminosilicate material usually formed by alkali hydroxide or alkali silicate activation of a solid precursor such as coal fly ash calcined clay and or metallurgical slag Today the primary application of geopolymer technology is in the development of reduced CO₂ construction materials as an alternative to Portland based cements Geopolymers structure processing properties and industrial applications reviews the latest research on and applications of these highly important materials Part one discusses the synthesis and characterisation of geopolymers with chapters on topics such as fly ash chemistry and inorganic polymer cements geopolymer precursor design nanostructure microstructure of metakaolin and fly ash geopolymers and geopolymer synthesis kinetics Part two reviews the manufacture and properties of geopolymers including accelerated ageing of geopolymers chemical durability engineering properties of geopolymer concrete producing fire and heat resistant geopolymers utilisation of mining wastes and thermal properties of geopolymers Part three covers applications of geopolymers with coverage of topics such as commercialisation of geopolymers for construction as well as applications in waste management With its distinguished editors and international team of contributors Geopolymers structure processing properties and industrial applications is a standard reference for scientists and engineers in industry and the academic sector including practitioners in the cement and concrete industry as well as those involved in waste reduction and disposal Discusses the synthesis and characterisation of geopolymers with chapters covering fly ash chemistry and inorganic polymer cements Assesses the application and commercialisation of geopolymers with particular focus on applications in waste management Reviews the latest research on and applications of these highly

important materials Lifetime-Oriented Structural Design Concepts Friedhelm Stangenberg, 2009-11-26 Safety and reliability are important for the whole expected service duration of an engineering structure Therefore prognostical solutions for different building types are needed and uncertainties have to be handled Life cycle strategies to control future structural degradations by concepts of appropriate design have to be developed in case including means of inspection maintenance and repair Aspects of costs and sustainability also matter The Cooperative Research Center for Lifetime Oriented Design Concepts SFB 398 at Ruhr University in Bochum combines the wide range of scientific topics between structural engineering structural and soil mechanics and material sciences regarding structural lifetime management in this present extraordinary monolithic format The characterization and modeling of lifetime related external actions of multiple origin are presented in this book as well as the physical description the modeling and the validation of material degradation Adaptive numerical methods and simulation techniques are provided for the lifetime oriented design concepts to forecast material and structural degradation Stochastic aspects mathematical optimization methods and interactions between various influences are included Thus a solid basis is provided for future practical use and also for standardization of structural design with respect to lifetime prediction

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