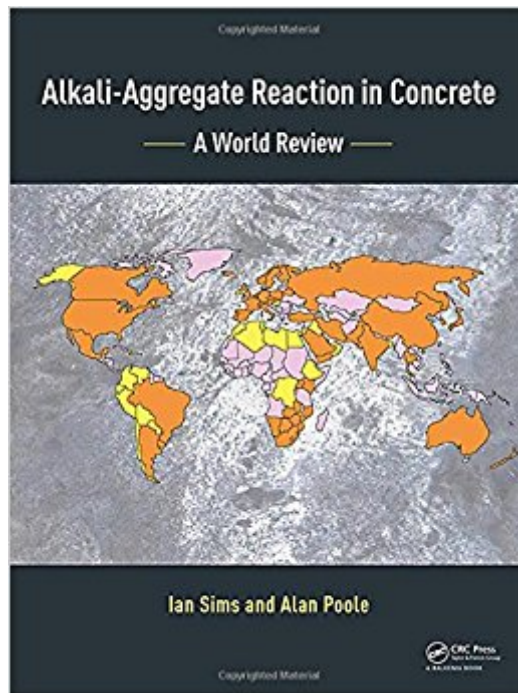


The book was found

Alkali-Aggregate Reaction In Concrete: A World Review



Synopsis

This book is unique in providing authoritative up to date expert information on the causes and effects of alkali-aggregate reaction (AAR) in concrete structures. It has been compiled using expert contributions by acknowledged senior engineers and scientists from round the world. It has been divided into two distinct but complementary parts, the first 5 chapters deal with the most recent researches into the mechanisms involved in the reaction, methods concerning its diagnosis, avoidance, testing and evaluation, together with an appraisal of current methods used in its avoidance and the remediation of affected concrete structures. The second part of the book is divided into 11 chapters covering each region of the world in turn. These chapters are written by experts with specialist knowledge of AAR from each region giving an authoritative state of the art appraisal of the problem and its solution as it affects concrete structures in each country with case history illustrations. An authoritative compilation on this topic has not been attempted previously on this scale. It is therefore a primary reference source essential to professional civil engineers, consultant engineers, aggregate producers and cement and concrete producers. It also forms an authoritative reference source where technical and legal issues of dispute arise anywhere in the world.

Book Information

Hardcover: 804 pages

Publisher: CRC Press; 1 edition (August 7, 2017)

Language: English

ISBN-10: 1138027561

ISBN-13: 978-1138027565

Package Dimensions: 9.8 x 6.8 x 1.8 inches

Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,157,611 in Books (See Top 100 in Books) #114 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Concrete #626 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #1081 in Books > Textbooks > Engineering > Civil Engineering

Customer Reviews

Dr Ian Sims is a Director of RSK Environment Ltd in the UK, where he is responsible for Materials Consultancy and Expert Witness Services. He graduated in geology at London University in 1972

and then undertook research in concrete technology, including AAR in the British Isles, being awarded a PhD in 1977. Ian joined Sandberg LLP in 1975 and gained wide experience with construction geomaterials. In 1996, he moved to STATS Limited, which joined RSK Group PLC in 2008. He has specialised for over 40 years in concrete, its constituents and all aspects of AAR. Between 1988 and 2014, Ian was Secretary of the RILEM Technical Committees on AAR and awarded RILEM Fellowship. As a Fellow of the Geological Society, he was Secretary for four sequential Engineering Group working parties, producing report-books on Aggregates, Stone and Clay materials and construction in Hot Deserts. Ian received the Society's Engineering Group Award and later the Coke Medal. He has served on many other committees, including chairing the editorial panel for ICE's journal 'Construction Materials' and currently chairing the BSI committee on Aggregates. Ian's publications include 'Concrete Petrography: a handbook of investigative techniques', now in its second edition. Alan Poole followed a research and teaching career in the petrology of civil engineering materials at Queen Mary, University of London. Throughout his later career he has been much involved with investigation of materials problems associated with concrete and related materials for government and major civil engineering organisations. One particular area of expertise is alkali-aggregate reaction in concrete, a costly and world-wide problem. He was a member of the international committee for the organisation of a series of major 'ICAAR conferences' on alkali-aggregate reaction until 2000 and chaired the two held in the UK (1976 & 1992). As a result of consultancy interests he has gained a wide experience in the investigation of civil engineering material failures of all sorts and has contributed chapters in a number of technical books and journals including co-authoring the recently published 'Concrete Petrography' which deals with all aspects of the investigation of concrete deterioration. He acts as secretary to the Geological Societies Applied Petrography Group and is also a member of British Standards Institution committees concerned with concretes and aggregates.

[Download to continue reading...](#)

Alkali-Aggregate Reaction in Concrete: A World Review mineral trioxide aggregate-a review: MTA,latest dental material-an update Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B The Periodic Table of Elements - Alkali Metals, Alkaline Earth Metals and Transition Metals | Children's Chemistry Book Handbook of Chlor-Alkali Technology (5 Volume Set) The Law of Class Actions and Other Aggregate Litigation (University Casebook Series) Comprehensive Community Health Nursing: Family, Aggregate, and Community Practice RSMeans Concrete and Masonry Cost Data 2014 (Means Concrete & Masonry Cost Data)

Black & Decker The Complete Guide to Concrete & Masonry, 4th Edition: Build with Concrete, Brick, Block & Natural Stone (Black & Decker Complete Guide) ACI 318.2-14: Building Code Requirements for Concrete Thin Shells (ACI 318.2-14) and Commentary on Building Code Requirements for Concrete Thin Shells (ACI 318.2R-14) Proportioning Concrete Mixtures and Mixing and Placing Concrete (Classic Reprint) The Concrete House: Building Solid, Safe & Efficient with Insulating Concrete Forms Concrete, From Archeology to Invention, 1700â “1769: The Renaissance of Pozzolana and Roman Construction Techniques (Treatise on Concrete) Textile Reinforced Concrete (Modern Concrete Technology) Fracture Mechanics of Concrete: Applications of Fracture Mechanics to Concrete, Rock and Other Quasi-Brittle Materials Bisk CPA Review: Regulation, 43rd Edition, 2014 (Comprehensive CPA Exam Review Regulation) (Bisk Comprehensive CPA Review) (Cpa Comprehensive Exam Review. Regulation) Study Guide: Ace Organic Chemistry I - The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Bisk CPA Review: Financial Accounting & Reporting - 41st Edition 2012 (Comprehensive CPA Exam Review Financial Accounting & Reporting) (Cpa ... Enterprises) (Bisk Comprehensive CPA Review) Bisk CPA Review: Financial Accounting & Reporting - 43rd Edition 2014 (Comprehensive CPA Exam Review Financial Accounting & Reporting) (Cpa Review ... and Reporting Business Enterprises) Brody's Regent Review: Living environment 2015: Regents review in less than 100 pages (Brody's Regents Review)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)