

<<混凝土结构耐久性进展>>

图书基本信息

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前言

Concrete structures are the most widely used construction in the world. It is now generally accepted that concrete structures deteriorate with time. Attention is being paid globally to the issue of concrete structural durability. Undesirable concrete durability includes multi aspects such as concrete material, concrete structural components and concrete structures. The most important aspect is concrete structures. In order to review the research findings and the recent developments in the durability of concrete structures, an International Conference on Durability of Concrete Structures (ICDCS) have been held. The aim of the conference "is to bring together leading experts in this field from around the world to present the latest developments, share recent achievements, discuss current problems, address future challenges on durability issues of concrete structures and provide learning opportunities for young students. This international colloquium series, which now travels to Hangzhou, China, will certainly continue in the future. The International Conference on Durability of Concrete Structures have been sponsored by the American Concrete Institute, Asian Concrete Federation, China Civil Engineering Society, International Committee on Concrete Model Code for Asia, Japan Concrete Institute, Japan Society of Civil Engineers, National Natural Science Foundation of China, International Union of Laboratories and Experts in Construction Materials, Systems and Structures, the Y.C. Tang Disciplinary Development Fund of Zhejiang University, International Journal of Modelling, Identification and Control, and International Journal of Structural Engineering. This two-volume book constitutes the Proceeding of the International Conference on Durability of Concrete Structures (ICDCS 2008) and contains all the 6 keynote papers, 18 invited papers and 175 selected papers. These papers not only report the results of recent research but also discuss the technical developments in the durability of concrete structures.

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内容概要

In order to review the research findings and the recent developments in the durability of concrete structures, an International Conference on Durability of Concrete Structures (ICDCS) have been held. The aim of the conference is to bring together leading experts in this field from around the world to present the latest developments, share recent achievements, discuss current problems, address future challenges on durability issues of concrete structures and provide learning opportunities for young students. This international colloquium series, which now travels to Hangzhou, China, will certainly continue in the future.

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书籍目录

Volume 1 Keynote Paper DAMAGE OF CONCRETE BY SULFATE ATTACK AND ALKALI-SILICA REACTION M Collepardi A MULTI-ENVIRONMENTAL TIME SIMILARITY THEORY OF LIFE PREDICTION ON COASTAL CONCRETE STRUCTURAL DURABILITY GLOBAL WARMING, AND ROLE OF SUPPLEMENTARY CEMENTING MATERIALS AND SUPERPLASTICIZERS IN REDUCING GREENHOUSE GAS EMISSIONS FROM THE MANUFACTURING OF PORTLAND CEMENT MODELS FOR CHLORIDE INGRESS INTO CONCRETE-FROM COLLEPARDI TO TODAY JAPAN'S EXPERIENCES AND STANDARDS ON THE DURABILITY PROBLEMS OF REINFORCED CONCRETE STRUCTURES SHRINKAGE MECHANISMS, CRACK FORMATION, AND SERVICE LIFE OF REINFORCED CONCRETE STRUCTURES INTEGRATED DURABILITY SIMULATION FOR REINFORCED CONCRETE STRUCTURES NOVEL METHODS FOR IN SITU TESTING AND MONITORING OF THE DURABILITY OF REINFORCED CONCRETE STRUCTURES Volume 2 Performance of Components and Structures BENDING PERFORMANCE AFTER REPAIR FOR REINFORCED CONCRETE DAMAGED BY CHLORIDE THE EVALUATION OF DURABILITY OF CONCRETE STRUCTURES IN MARINE ENVIRONMENT INFLUENCE OF LOCALIZED CORROSION OF STEEL BARS ON LOAD CARRYING CAPACITY OF REINFORCED CONCRETE BEAMS FRACTURE BEHAVIOR OF STEEL STRANDS' CORRODED IN CONCRETE CONTAMINATED WITH SALT A STRUCTURAL CALCULATION FOR BEAM DEFLECTIONS OF REINFORCED CONCRETE WITH BOND-SLIP EXPERIMENTAL RESEARCH ON THE BOND-ANCHORAGE PROPERTIES OF STAINLESS STEEL REINFORCED CONCRETE SEISMIC ANALYSIS OF SHEAR WALLS CONSIDERING SOIL-STRUCTURE INTERACTION A STUDY OF FROST DAMAGE IN RIVER SLUICES

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