

DURABILITY OF CONCRETE STRUCTURES

Investigation, repair, protection

EDITED BY GEOFF MAYS



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Durability Of Concrete Structures Investigation Repair Protection

Noel P. Mailvaganam



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Durability of Concrete Structures Geoffrey Mays,1992-01-01 **Durability of Concrete Structures** ,1982

Corrosion of Steel in Concrete Luca Bertolini,2004-02-23 This reference work will focus on the corrosion of steel in concrete the main cause of deterioration of reinforced concrete structures A survey on well established mechanisms and concepts is given but the main emphasis lies on new methods and materials for preventive measures condition assessment and repair

Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures Mourad M. Bakhoun,2010

Concrete Reinforcement Corrosion Peter Pullar-Strecker,2002 Reinforcement corrosion is the most important cause of deterioration in reinforced concrete structures today By comparing the different repair methods which have been established during recent years and discussing their advantages and drawbacks this guide details practical approaches to enable non specialist investigators to carry out at least some initial investigation themselves and considers the problems of detailed investigations in a way which even the most experienced consultations and their clients will find helpful back cover

Prediction of Concrete Durability J. Glanville,A. Neville,1997-06-12 Poor durability of concrete is a continuing concern to owners of structures and their professional advisors Advances in methods of assessing and predicting durability are being made in many areas and this book provides a state of art review of the current situation Contributions from leading researchers and consultants make it a valuable guide f

Appraisal and Repair of Reinforced Concrete Robert Holland,1997 This book provides guidance on appraisal and repair of reinforced concrete building structures It addresses the problems related to reinforced concrete corrosion of reinforcement cracking cathodic protection and protective coatings and it highlights the advantages and or problems of each while explaining the methods and options available

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

Repair, Protection and Waterproofing of Concrete Structures Teresa C. Piliouras,1997-07-17 A wealth of recent research into the continued deterioration of reinforced concrete structures has led to a review of methods of investigation and repair techniques This thoroughly revised and updated new edition brings together the fundamental aspects of this world wide problem and offers advice on how investigations diagnosis and consequent rem

Engineering Materials Science H McArthur,D Spalding,2004-01-01 Exhaustive authoritative and comprehensive using 160 statistical tables this book addresses the fundamental structure of materials and remediation and looks at the properties of water and water induced degradation and deterioration with chapters on moisture effects in buildings and materials corrosion theory and metal protection The authors explain the behaviour of materials in fires fundamental fire resistance principles and techniques calculation of flame temperatures and the removal of heat by nitrogen and other combustion products It

addresses properties performance degradation of masonry plastics adhesives sealants timber glass and fibre composites metals and alloy elements Phase diagrams show cooling curves and structure for metals and alloys Concrete technology is developed in relation to degradation electro potential mapping and cathodic protection of reinforced concrete The book is fully updated to current British and European standards Addresses the fundamental structure of materials and remediation and looks at the properties of water and water induced degradation and deterioration Explains the behaviour of materials in fires fundamental fire resistance principles and techniques calculation of flame temperatures and the removal of heat Fully updated to current British and European standards

Materials, Mechanical and Manufacturing Engineering Yun Hae Kim, Prasad Yarlagadda, 2013-11-15 Selected peer reviewed papers from the 2013 International Conference on Materials Mechanical and Manufacturing Engineering IC3ME 2013 October 19 20 2013 Guilin China BRE Digest, 2009-11

The Indian Concrete Journal, 1993 ACI Materials Journal, 2008 Cement Combinations for Durable Concrete Ravindra K. Dhir, T. A. Harrison, Moray D. Newlands, 2005 The Concrete Technology Unit of the University of Dundee organized a congress to address the changes required to turn opportunities into beneficial practices in 10 events This book forms the proceedings of the first event and deals with issues such as materials processing technology Portland and non Portland cements and others

Subject Guide to Children's Books in Print 1997 Bowker Editorial Staff, R R Bowker Publishing, 1996-09

Repair and Protection of Concrete Structures Noel P. Mailvaganam, 1991-12-18 Repair and Protection of Concrete Structures presents the latest information regarding the durability and repair of concrete structures It emphasizes the importance of selecting repair materials to match site and service conditions using proper repair procedures and attending to the details of design Divided into three parts the book discusses such topics as the properties of new products the various materials in general use for repair work selection criteria methodologies for selecting appropriate repair materials the behavior of concrete under various environmental conditions non destructive evaluation methods for detecting deterioration of structures and basic repair principles applicable to a wide range of buildings Engineers architects technologists and contractors should consider this book a valuable tool that provides a much needed survey of current work and thinking regarding degradation and techniques for improving repair work

Fifth International Conference on Concrete Technology for Developing Countries, 1999

Information Sources in Engineering Ken W. Mildren, Peter J. Hicks, 1996 This guide presents an updated evaluation of sources from reports journals to bibliographies reviews for engineering information Topics covered include energy technology nuclear power engineering fluid mechanics fluid power systems design ergonomics biomedical engineering more

Civil Engineering, 1993

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