

# **DURABILITY OF CONCRETE STRUCTURES**

**Investigation, repair, protection**

**EDITED BY GEOFF MAYS**



**CRC Press**  
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# Durability Of Concrete Structures Investigation Repair Protection

**J. Glanville,A. Neville**



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**Durability of Concrete Structures** G.C. Mays,1991-11-14 This book is concerned with the long term durability of concrete as a structural material as used in the construction of buildings bridges roads marine and civil engineering structures It discusses the fundamental reasons for the deterioration of concrete over time and available techniques for detecting remedying and preventing the deteriorati

**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

**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

*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 for all those responsible for concrete buildings and structures

**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 *BRE Digest* ,2009-11 **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 ACI Materials Journal ,2008 **Corrosion of Steel in Concrete** Building Research Establishment. Centre for Concrete Construction,BRE Centre for Construction Construction,Great Britain. Department of the Environment, Transport and the Regions,2000 This Digest is in three Parts Part 1 examines the durability of steel in concrete With Part 2 on investigation and assessment and Part 3 on protection and remedial work it sets out the basic principles for all those concerned with the design and maintenance of durable concrete structures owners tenants on repairing leases architects surveyors engineers material scientists and contractors It also examines existing standards of construction and the lessons learned from the investigation of cases of corrosion in concrete This part of the Digest Part 1 explains the physical chemical and electrochemical processes involved in the deterioration of reinforced concrete by corrosion it summarises the mechanisms underlying protection considers issues associated with the durability management of existing structures and reviews best practice in designing and specifying reinforced and prestressed concrete for new structures to achieve durable whole life performance Part 2 considers how corrosion induced deterioration in existing steel reinforced concrete structures is assessed and diagnosed Part 3 describes the repair and protection of concrete structures subject to corrosion damage or which are expected to need measures to minimise future damage or deterioration Concrete durability is an area which is undergoing rapid technical development and change this Digest describes future developments that are expected to have a major influence on the approaches and methodologies in this field Digests 263 264 and 265 are withdrawn **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      **The Indian Concrete Journal** ,1993      *Subject Guide to Children's Books in Print 1997* Bowker Editorial Staff,R R Bowker Publishing,1996-09      **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      IABSE Conference, New Delhi, India 2005 ,2005      **Fifth International Conference on Concrete Technology for Developing Countries** ,1999

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