

PERFORMANCE CRITERIA

Performance Criteria		Concrete Pavement			Concrete Bridges		
		Partial Depth	Dowel Retrofit	Full Depth	Type 1	Type 2	Type 3
Constructability	Easy to perform, Versatile, etc.	✓	✓	✓	✓	✓	✓
Fresh Concrete	Setting Time	✓	✓	✓	✓	✓	✓
	Workability (Slump)	✓	✓	✓	✓	✓	✓
Hardened Concrete	Flexural and Compressive Strength	✓	✓	✓	✓	✓	✓
	Fatigue Performance	✓	✓	✓	✓	✓	✓
	Stiffness Compatibility	✓	✓	✗	✓	✓	✗
	Thermal Compatibility	✓	✓	✗	✓	✓	✗
	Bonding	✓	✓	✗	✓	✓	✗
	Shrinkages (Autogenous and Total)	✓	✓	✗	✓	✓	✗
Concrete Durability	Freeze/Thaw Deterioration	✓	✓	✓	✓	✓	✓
	Chloride Permeability (Resistivity)	✓	✓	✓	✓	✓	✓

Performance Criteria For Concrete Durability

Roberto Torrent, Luis Fernández Luco

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

Performance Criteria For Concrete Durability:

Performance Criteria for Concrete Durability H. Hilsdorf, J. Kropp, 2004-06-02 This is a state of the art report prepared by RILEM Technical Committee 116 PCD and is an authoritative international review of the subject and is an essential reference source for engineers and technologists Performance Criteria for Concrete Durability explains key aspects of concrete durability and the relationships between transport mechanisms and concrete durability characteristics It reviews test methods for measuring permeability in the laboratory and on site and discusses the many factors which influence the durability of concrete to carbonation chlorides abrasion etc

Performance Criteria for Concrete Durability Jens Metzger, 2017-07-24 Performance Criteria for Concrete Durability explains key aspects of concrete durability and the relationships between transport mechanisms and concrete durability characteristics It reviews test methods for measuring permeability in the laboratory and on site and discusses the many factors which influence the durability of concrete to carbonation chlorides abrasion etc

Concrete Durability David Wai Sum Ho, H. T. Cao, Commonwealth Scientific and Industrial Research Organization (Australia). Division of Building, Construction and Engineering, 1993

Performance-Based Specifications and Control of Concrete Durability Hans Beushausen, Luis Fernandez Luco, 2015-09-24 This work gives an overview of significant research from recent years concerning performance based design and quality control for concrete durability and its implementation In engineering practice performance approaches are often still used in combination with prescriptive requirements This is largely because for most durability test methods sufficient practical experience still has to be gained before engineers and owners are prepared to fully rely on them This book compiled by RILEM TC 230 PSC is intended to assist efforts to successfully build the foundation for the full implementation of performance based approaches through the exchange of relevant knowledge and experience between researchers and practitioners worldwide

The Quest for Absolute Concrete Durability Performance Criteria, 2016 Transport Characteristics of Fluid and Ions in Concrete Nasir Shafiq, 1999

Integrated Design and Environmental Issues in Concrete Technology K. Sakai, 2014-04-21 The two themes of integration of structural and durability design and integration of concrete technologies in relation to global environmental issues are drawn together in this book It presents the views of distinguished international researchers and engineers on these key topics as the 21st century approaches

Advances in Engineering Project, Production, and Technology James Olabode Bamidele Rotimi, Wajiha Mohsin Shahzad, Monty Sutrisna, Ravindu Kahandawa, 2024-08-17 This book contains a selection of papers from the 13th International Conference on Engineering Project and Production Management EPPM held in Auckland New Zealand from 29 November to 1 December 2023 The conference was organized by the School of Built Environment Massey University in collaboration with the EPPM Association The book comprises of quality assured theoretical discussions data analysis case studies and industry practices presented by global researchers and practitioners The conference theme was Creating capacity and capability re energizing supply chain

for sustainable management of projects and productions in engineering and this volume focuses on papers related to engineering project production and technology The papers are comprehensive multidisciplinary and advanced and will be of interest to researchers and practitioners from various industries seeking the latest updates on the fields of engineering project and production management Reinforced Concrete Structural Reliability Mohamed Abdallah El-Reedy, Ph.D,2012-12-15 Structural engineers must focus on a structure s continued safety throughout its service life Reinforced Concrete Structural Reliability covers the methods that enable engineers to keep structures reliable during all project phases and presents a practical exploration of up to date techniques for predicting the lifetime of a structure The book also helps readers understand where the safety factors used come from and addresses the problems that arise from deviation from these factors It also examines the question of what code is best to follow for a specific project the American code the British Standard the Eurocode or other local codes The author devotes an entire chapter to practical statistics methods and probability theory used in structural and civil engineering both important for calculating the probability of structural failure reliability analysis The text addresses the effects of time environmental conditions and loads to assess consequences on older structures as well as to calculate the probability of failure It also presents the effects of steel bar corrosion and column corrosion and precautions to consider along with guides for design This book offers guidelines and tools to evaluate existing as well as new structures providing all available methods and tests for assessing structures including visual inspection and nondestructive testing for concrete strength It also presents techniques for predicting the remaining service life of a structure which can be used to determine whether to perform repairs or take other action This practical guide helps readers to differentiate between and understand the philosophy of the various codes and standards enabling them to work anywhere in the world It will aid engineers at all levels working on projects from the design to the maintenance phase increasing their grasp of structure behavior codes and factors and predicting service life Steel Corrosion in Concrete Arnon Bentur,Neal Berke,Sidney Diamond,1997-10-09 Poor durability of concrete is a major cause of problems in modern building and civil engineering structures in all countries the annual cost of investigating and repairing deteriorating reinforced concrete structures runs into many millions of pounds This book explains the fundamentals of the corrosion of steel in concrete It is comprehensive a Fundamentals of Durable Reinforced Concrete Mark G. Richardson,2023-11-03 This new edition sets out the fundamental aspects of concrete durability with an emphasis on sustainability and carbon neutrality through performance based methodologies Global approaches to managing durability are explained from both a prescriptive and performance viewpoint Achieving a balance between the interactive factors influencing durability and sustainability is supported by an explanation of the physical and chemical phenomena at play determination of key performance parameters by mathematical modelling and physical testing and current guidance for good practice New chapters and sections examine the holistic approach to durability and significant aspects of traditional and new cementitious systems The full range of

threats to durability are covered in this single volume including reinforcement corrosion carbonation chloride ingress freeze thaw effects sulfate attack acid and seawater attack alkali aggregate reaction cracking abrasion erosion cavitation and weathering The book presents a framework for specification through internationally adopted codes and standards and summarises the background to probabilistic approaches to durability design providing a state of the art review of mathematical modelling of deterioration mechanisms along with current directions in test methods for performance based specifications *Fundamentals of Durable Reinforced Concrete* is an essential reference on concrete durability for specifiers and researchers and is also accessible to undergraduate students

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

Handbook of Precast Segmental Tunnel Lining Systems Verya Nasri, David Klug, Brian Fulcher, James A. Morrison, 2024-07-31 This comprehensive handbook covers all aspects of design production and construction of precast concrete tunnel segmental lining with the best practices in the field included in one book for the first time New and current design methods and quantitative analyses are considered in line with ACI and ASTM codes as well as a full selection of global standards for the reliable design of the product and all components Also incorporated are new applications of science and technology such as new admixtures and the latest manufacturing processes and precisions such as tight dimensional controls and high repeatability cycles With detailed guidance from world leading practitioners this is the definitive international technical and practical manual on these linings forming a one stop reference for tunnel engineers and an invaluable resource for advanced students in civil mechanical and mining engineering

PRO 29: 2nd International RILEM Workshop on Life Prediction and Aging Management of Concrete Structures Dan J. Naus, 2003 *NBS Special Publication*, 1968

Building Technology Publications, 1965-1975 Center for Building Technology, 1976

CEB-FIP Model Code 1990 FIB - International Federation for Structural Concrete, 1993-01-01 This design code for concrete structures is the result of a complete revision to the former Model Code 1978 which was produced jointly by CEB and FIP The 1978 Model Code has had a considerable impact on the national design codes in many countries In particular it has been used extensively for the harmonisation of national design codes and as basic reference for Eurocode 2 The 1990 Model Code provides comprehensive guidance to the scientific and technical developments that have occurred over the past decade in the safety analysis and design of concrete structures It has already influenced the codification work that is being carried out both nationally and internationally and will continue so to do

Proceedings of the 7th International Conference on Concrete Repair, Rehabilitation and Retrofitting Hans Beushausen, Joanitta Ndawula, Mark Alexander, Frank Dehn, Pilate Moyo, 2024-10-31 This book gathers contributions presented at the 7th International Conference on Concrete Repair Rehabilitation and Retrofitting ICCRRR held in Cape Town South Africa on November 4 6 2024 The conference aims at sharing knowledge and experience on current developments in concrete technology durability design and service life management condition assessment of

concrete structures and concrete repair rehabilitation and retrofitting The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations

Report 40: Non-Destructive Evaluation of the Penetrability and Thickness of the Concrete Cover - State-of-the-Art Report of RILEM Technical Committee 189-NEC Roberto Torrent, Luis Fernández Luco, 2007

Catalog of National Bureau of Standards Publications, 1966-1976 United States. National Bureau of Standards, 1978

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