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Autore	*Consiglio_Nazionale_Forese
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Note generali	Tit. parallelo anche in spagnolo
2. Record Nr.	UNINA9911048823403321
Titolo	ICE handbook of concrete durability : a practical guide to the design of resilient concrete structures / / edited by Marios Soutsos (Queen's University, UK)
Pubbl/distr/stampa	Leeds, England : , : Emerald Publishing Limited, , [2023] ©2023
ISBN	9780727763761 0727763768
Edizione	[2nd Edition.]
Descrizione fisica	1 online resource (577 pages)
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Disciplina	620.1362
Soggetti	Concrete - Service life Concrete construction Technology & Engineering, Materials Science - General Conservation of buildings & building materials
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Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents and Preliminary Pages -- Introduction -- Pore structure and transport processes -- Physical deterioration mechanisms -- Chemical deterioration mechanisms -- Material selection to improve durability -- Construction processes to improve durability -- Design aspects that can reduce risks from deterioration mechanisms -- Durability performance tests -- Performance-based specifications for concrete -- Modelling and predicting the effects of deterioration mechanisms -- Case Studies: Durability problems, repair strategies or proper consideration in durability design? -- Repair methods -- Non-destructive testing and structural health monitoring -- Durability of concretes based on non-Portland cements -- Durability of concrete made with aggregates recycled from construction and demolition waste -- Lessons learnt by expert witnesses involved in construction disputes -- Index.
Sommario/riassunto	ICE Handbook of Concrete Durability, Second edition is a comprehensive practical reference for professionals involved in design and maintenance of concrete structures of all types. With contributions from a range of international experts, the book combines a thorough but accessible exposition of the principles of durable concrete design with a hands-on approach to its application in construction projects. The handbook helps readers to understand the likely causes of deterioration in concrete structures, facilitates the selection of appropriate materials and supports the development of designs that minimise the risks arising from deterioration mechanisms. Extensively revised and updated throughout, this edition includes four new chapters, including chapters on non-destructive testing and structural health monitoring, and lessons learnt by expert witnesses involved in construction disputes, as well as new case studies of durability problems and solutions. Coverage includes * physical and chemical deterioration mechanisms * durability of concretes made with Portland and non-Portland cement-based binders and recycled demolition aggregates * alternative materials to improve concrete durability * performance-based specifications * modelling the effects of deterioration mechanisms * improving construction processes for better durability * repair methods. ICE Handbook of Concrete Durability is an invaluable guide for construction professionals, including design engineers, consultants and contractors, as well as postgraduate students on courses in concrete technology and the design of concrete structures. Marios Soutsos is Professor of Structures/Material in the School of Natural and Built Environment at Queen's University Belfast, UK.