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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 deterioration.

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Durability of Concrete Structures Investigation, Repair ...

Test and inspection techniques include: (1) in situ sampling and testing; (2) determination of structural integrity, for example by various types of surveys; (3) determination of concrete quality; (4) determination of steel serviceability and condition; (5) laboratory testing and sample analysis; (6) visual examination of concrete; (7) physical testing of concrete to determine its quality; (8) chemical analysis of concrete; (9) petrographic

examination of concrete.

DURABILITY OF CONCRETE STRUCTURES. INVESTIGATION, REPAIR ...

railway structures This chapter discusses durability problems of British concrete railway bridges, of which there are about 3,800. The problems arise mainly from steel reinforcement corrosion and concrete deterioration; several illustrative examples are considered of actual bridges where these problems have arisen, and some indications are given of the remedies applied.

DURABILITY OF CONCRETE STRUCTURES. INVESTIGATION, REPAIR ...

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Durability of Concrete Structures: Investigation, repair ...

Why Investigation of Reinforced Concrete Structures for Repair and Maintenance Required? Concrete is one of the most versatile man made construction materials of our times. Concrete by its flowability, in most complicated forms while wet, and its strength, development and durability characteristics when hardened, has gained a reputation as the most widely suitable material for most types of present day constructions.

Investigation of Reinforced Concrete Structures for Repair ...

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Durability of Concrete Structures: Investigation, repair ...

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Durability of Concrete Structures Investigation Repair ...

Abstract Extensive experience demonstrates that the durability of concrete structures is related not only to design and material but also to construction issues. Upon completion of new concrete...

(PDF) Durability of Concrete Structures

durability was found to be corrosion of reinforcement due to chloride ingress, mainly in older structures with relatively low concrete cover to the reinforcement [Wiebenga 1980]. In view of the young age of the investigated structures relative to the slow rate of degradation, it was recommended to carry out a similar study in about 15 years time.

Durability of marine concrete structures - field ...

Durability of Concrete structures in marine environment has been an issue for many decades, due to the perception of sea water as aggressive to concrete and reinforcement and the long service life...

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It is an innovative composite material that can serve as a potential candidate for concrete structures exposing to aggressive environments. A comprehensive investigation of the durability characteristics of UHPC is essential to provide fundamental information for material testing requirements and procedures and expand its practical applications.

Durability of ultra-high performance concrete - A review ...

In this investigation micronized zeolite powder and nano silica hybrid with various proportion, has been replaced cement and the mechanical and durability properties of concrete mixtures were tested. 2. Materials and Methods The utilized micro zeolite is a clinoptilolite type of natural zeolite manufactured by Semnan-Negin Powder Company.

Investigation of Mechanical and Durability Properties of ...

Durability of marine concrete structures - field investigations and modelling . By R.B. Polder and M.R. de Rooij. Abstract. This article presents a series of investigations on six concrete structures along the North Sea coast in The Netherlands. They had ages between 18 and 41 years and most of them

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were made using Blast Furnace Slag cement.

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