



Durability Design of Concrete Structures in Severe Environments, Second Edition

Odd E. Gjrv

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One of the most pressing problems facing the construction industry globally is the deterioration of major concrete infrastructure in marine and other chloride-containing environments. While recent advancements in concrete technology have made it easier to control the negative impact of deteriorating processes such as alkali-aggregate reaction, freezing and thawing and chemical attack, chloride-induced corrosion of embedded steel continues to pose the biggest threat to structure durability and performance.

The second edition of **Durability Design of Concrete Structures in Severe Environments** focuses on enhancing the durability and service life of concrete structures. The text describes field experience and deteriorating processes of concrete structures in severe environments, and includes current data based on extensive field investigations. It presents a durability design based on calculation of corrosion probability, and outlines additional protective strategies and measures. The text also describes procedures for performance-based concrete quality control and quality assurance with documentation of achieved construction quality and compliance with specified durability. The text further covers calculation of life cycle costs and life cycle assessment, and includes some new recommended job specifications.

What's New in the Second Edition:

This second edition delivers more results and experience from practical applications of the probability-based durability design and the performance-based concrete quality control. It includes recent commercial projects both for Oslo Harbor KF and Nye Tjuvholmen KS in Oslo, and contains some preliminary results from the more comprehensive research program "Underwater Infrastructure and Underwater City of the Future" at Nanyang Technological University in Singapore.

The book serves as an essential guide both for the owners and the consulting and construction engineers involved in new and major concrete infrastructure design and construction.

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