



# Durability Design of Concrete Structures: Phenomena, Modeling, and Practice

*Kefei Li*

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**Durability Design of Concrete Structures: Phenomena, Modeling, and Practice** Kefei Li

**Comprehensive coverage of durability of concrete at both material and structural levels, with design related issues**

- Links two active fields in materials science and structural engineering: the durability processes of concrete materials and design methods of concrete structures
- Facilitates communication between the two communities, helping to implement life-cycle concepts into future design methods of concrete structures
- Presents state-of-the-art information on the deterioration mechanism and performance evolution of structural concrete under environmental actions and the design methods for durability of concrete structures
- Provides efficient support and practical tools for life-cycle oriented structural design which has been widely recognized as a new generation of design philosophy for engineering structures
- The author has long experience working with the topic and the materials presented have been part of the author's current teaching course of Durability and Assessment of Engineering Structures for graduate students at Tsinghua University
- The design methods and approaches for durability of concrete structures are developed from newly finished high level research projects and have been employed as recommended provisions in design code including Chinese Code and Eurocode 2

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