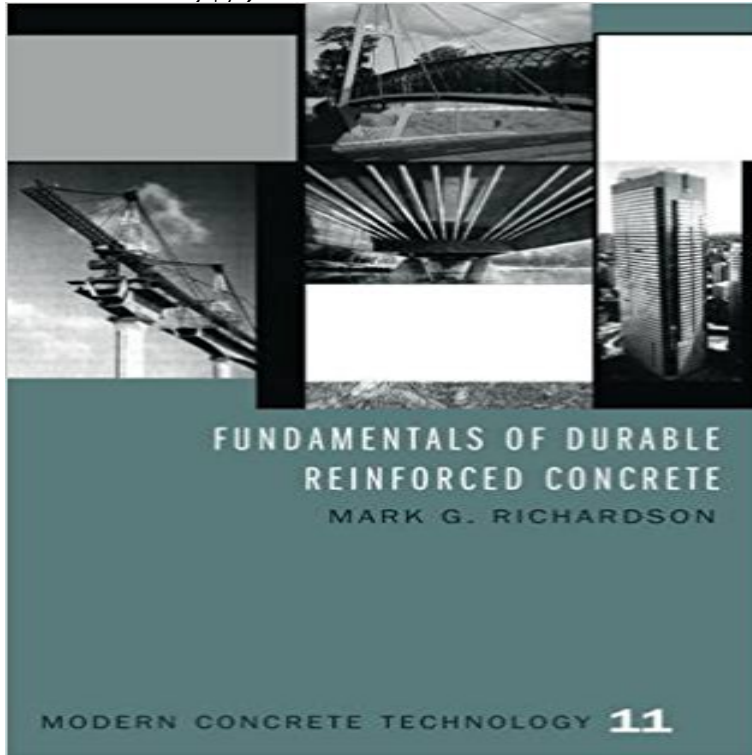


Fundamentals of Durable Reinforced Concrete (Modern Concrete Technology)



Durability failures in reinforced concrete structures are wasteful of resources and energy. The introduction to practice of European Standard EN 206-1 represents a significant shift in emphasis on the need to explicitly consider each potential durability threat when specifying and producing concrete. *Fundamentals of Durable Reinforced Concrete* presents the fundamental aspects of concrete durability including reinforcement corrosion, carbonation, chloride ingress, alkali-aggregate reaction, freeze/thaw damage, sulphate attack, chemical attack, cracking, abrasion and weathering. The background to the durability exposure classes in EN 206-1 is also explained. Future directions in performance-based specifications and mathematical modelling of degradation are presented. This book will be of particular interest to specifiers applying the principles of the new European Standard EN 206-1 for the first time, to postgraduate researchers in mathematical modelling of degradation mechanisms, to undergraduates of engineering, architecture and building technology, and students of advanced concrete technology who require a concise source of reference on concrete durability.

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