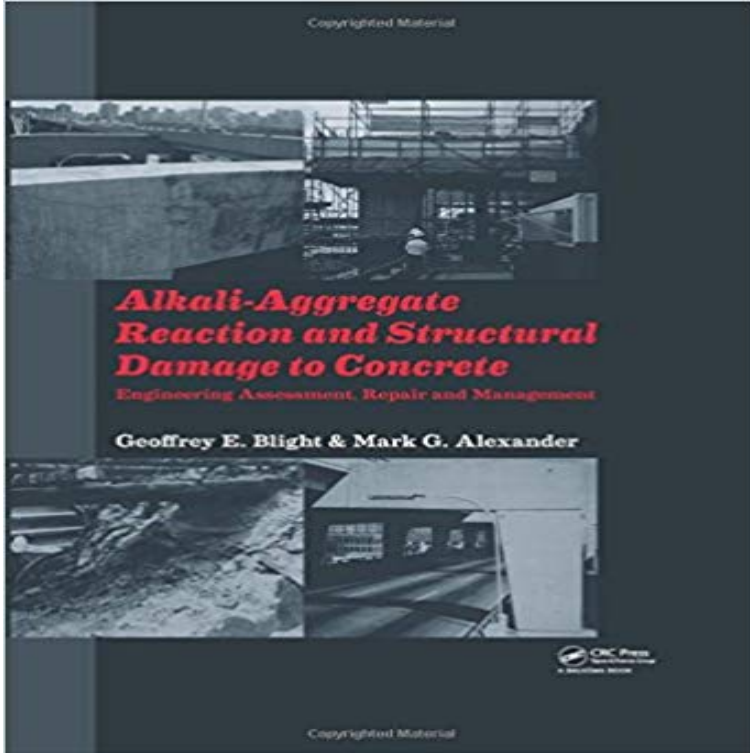


# Alkali-Aggregate Reaction and Structural Damage to Concrete: Engineering Assessment, Repair and Management



Since AAR was first identified in 1940, it has been a subject dominated by studies of the mineralogy of AAR-susceptible aggregates, the chemistry of the AAR and related reactions and laboratory tests used to diagnose AAR and predict potential future swelling. Civil and structural engineers have found the literature bewildering and difficult to apply to their immediate requirements of assessing the present and future effects of AAR on the strength, safety and serviceability of plain and reinforced concrete structures. The book discusses methods that can be used for laboratory destructive and in situ non-destructive testing to assess the effects of AAR, and in-service measurements and load-testing to assess the present and future safety of reinforced concrete structures. Methods of repair and rehabilitation and their long-term success are discussed, as are methods of halting or slowing the progress of AAR. At the same time, the fundamentals of AAR are explained in terms intelligible to the civil and structural engineer who is primarily trained in structural mechanics and design, but also needs to have a basic understanding of the AAR process and its effects on concrete.

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and Engineering. SUMMARY Measures to prevent AAR damage to concrete roads and bridge structures will also be  
ash, slag, etc., for prevention of AAR, repair materials and manage- Alkali-aggregate reaction can be divided into two  
broad categories: alkali-silica/silicate. **Alkali-aggregate reaction and structural damage to concrete** Alkali-aggregate  
reaction (AAR) is only one of the many factors that might be fully or partly .. crucial, when assessing the cause of  
damage affecting a concrete structure, that every mechanism large majority if not all investigations to date related to the  
management of AAR-affected . repair and/or mitigation strategies. 4 **Alkali-aggregate reaction and structural  
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