Failure, Distress and Repair of Concrete Structures. Woodhead Publishing Series in Civil and Structural Engineering

Description: Understanding and recognising failure mechanisms in concrete is a fundamental pre-requisite to determining the type of repair, or whether a repair is feasible. This title provides a review of concrete deterioration and damage, as well as looking at the problem of defects in concrete. It also discusses condition assessment and repair techniques.

Part one discusses failure mechanisms in concrete and covers topics such as causes and mechanisms of deterioration in reinforced concrete, types of damage in concrete structures, types and causes of cracking and condition assessment of concrete structures. Part two reviews the repair of concrete structures with coverage of themes such as standards and guidelines for repairing concrete structures, methods of crack repair, repair materials, bonded concrete overlays, repairing and retrofitting concrete structures with fiber-reinforced polymers, patching deteriorated concrete structures and durability of repaired concrete.

With its distinguished editor and international team of contributors, Failure and repair of concrete structures is a standard reference for civil engineers, architects and anyone working in the construction sector, as well as those concerned with ensuring the safety of concrete structures.

- Provides a review of concrete deterioration and damage
- Discusses condition assessment and repair techniques, standards and guidelines

Contents:

Part 1 Failure mechanisms in concrete: Causes and mechanisms of deterioration in reinforced concrete
Types of damage in concrete structures
Types and causes of cracking in concrete structures
Condition assessment of concrete structures. Part 2 Repair of concrete structures: Standards and guidelines for repairing concrete structures
Methods of crack repair in concrete structures
Repair materials for concrete structures
Bonded concrete overlays for repairing concrete structures
Repair/retrofitting of concrete structures with fiber-reinforced polymers
Protection systems for concrete structures
Patching of deteriorated concrete structures
Durability of repaired concrete structures.

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