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Contents; Contributor contact details; 1 Testing steel corrosion in reinforced concrete; 2 Alkali-silica reaction (ASR) testing of deterioration in concrete; 3 Acoustic testing of concrete bridge decks; 4 Electrical impedance testing of wood components; 5 Detecting decay in wood components; 6 Testing timber pile length in bridges; 7 Ultrasonic testing of structural timber components; 8 Digital radiography analysis of timber structures; 9 Visual inspection techniques for bridges and other transportation structures; 10 Acoustic emission testing of bridges 11 Bridge inspection using virtual reality and photogrammetry 12 Discontinuity in masonry walls; Index

Sommario/riassunto

The safety, maintenance and repair of bridges and buildings depend on effective inspection and monitoring techniques. These methods need to be able to identify problems often hidden within structures before they become serious. This important collection reviews key techniques and their applications to bridges, buildings and other civil structures. The first group of chapters reviews ways of testing corrosion in concrete components. Given their continuing importance and vulnerability to decay, the next series of chapters describes ways of testing wood components within civil structures. A final