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Sommario/riassunto	"The mechanisms by which buildings and infrastructures degrade are complex, as are the procedures and methods for inspection and for rehabilitation.This book examines the various problems caused by non-uniform deformation changes, poor durability, and natural and human disasters such as earthquakes and fire. Attention is given to the causes and mechanisms of the deterioration. General procedures and commonly used techniques for inspection and evaluation of existing infrastructures are introduced. The desk study, destructive test, and non-destructive test are discussed in particular the newly developed non-destructive methods for deterioration monitoring. The book then moves on to conventional renovation techniques such as patch and

steel plate strengthening, which meet the requirements of normal practice. Special attention is paid to compatibility between repair materials and degraded materials. Fibrous composite materials are then introduced as a basis for innovative repair techniques, and different fibre and matrix properties are outlined, as are newly developed inorganic binders as a matrix for fibrous composites. Finally, advanced rehabilitation techniques using fibrous composite are described. Fundamental issues such as bonding and failure mechanisms are then discussed in detail. Fibrous composite strengthening techniques for beam, wall, column and slabs are covered, including shear strengthening, flexural strengthening, and fillet winding, as are codes of practice for retrofitting with fibrous composites.This caters to students and academics world-wide and serves as a "tool book" for concrete and structural engineering professionals."--Provided by publisher.