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The method of repair and strengthen-ing
would naturally depend very largely on the
structural scheme and materials used for

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the construction of the building in the first instance, the technology that is feasible to adopt quickly and on the amount of funds that can be assigned to the task, usually very limited. Some methods like

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advanced material such as Carbon Fiber Reinforced Polymer (CFRP) will be illustrated for renovation and strengthening the structure in addition to the first principal of the design.

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building professionals to plan structural improvements—and to handle unforeseen contingencies that arise during construction. The second edition of *Structural Renovation of Buildings: Methods, Details, and Design Examples* clearly explains the newest methods and materials used for structural repair,

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strengthening, and seismic rehabilitation.

The case studies illustrate the practical applications of the design methods discussed and the best practices that can be used to mitigate the problems that commonly arise during renovation projects. The book:

- Contains practical design methods and problem-solving

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foundations Slab with haunch, trench
footings, and mats Deep foundations
Examples
Anchors in metal building systems

Concrete embedments in metal building
systems

The mechanisms by which buildings and
infrastructures degrade are complex, as are

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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

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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

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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

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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

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Methods 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.

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In Structural Condition Assessment, editor-in-chief Robert T. Ratay gathers together the leading people in the field to produce the first unified resource on all aspects of structural condition assessment for strength, serviceability, restoration, adaptive reuse, code compliance, and

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vulnerability. Organized by the four main stages of a structural evaluation, this book provides an introduction to structural deterioration and its consequences, the business and legal aspects of conducting an evaluation, initial survey and evaluation techniques for various structures, and specific tests for five of the most common

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structural materials (concrete, steel,
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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-

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