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Seismic Evaluation and Rehabilitation of Structures

By -

Springer International Publishing AG. Hardcover. Book Condition: New. Hardcover. 497 pages. Dimensions: 9.2in. x 6.4in. x 1.3in. In the past, facilities considered to be at the end of their useful life were demolished and replaced with new ones that better met the functional requirements of modern society, including new safety standards. Humankind has recently recognised the threats to the environment and to our limited natural resources due to our relentless determination to destroy the old and build anew. With the awareness of these constraints and the emphasis on sustainability, in future the majority of old structures will be retrofitted to extend their service life as long as feasible. In keeping with this new approach, the EUs Construction Products Regulation 3052011, which is the basis of the Eurocodes, included the sustainable use of resources as an Essential Requirement for construction. So, the forthcoming second generation of EN-Eurocodes will cover not only the design of new structures, but the rehabilitation of existing ones as well. Most of the existing building stock and civil infrastructures are seismically deficient. When the time comes for a decision to prolong their service life with the help of structural and architectural upgrading, seismic retrofitting may be needed. Further,...



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