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As such, seismic evaluation and rehabilitation need the best that the current state-of-the-art can offer on all aspects of earthquake engineering. This volume serves this need, as it gathers the most recent research of top seismic experts from around the world on seismic evaluation, retrofitting and closely related

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Preservation Brief 41: The Seismic Rehabilitation of ... ASCE/SEI 31-03 is intended to replace FEMA 310, Handbook for Seismic Evaluation of Buildings—A Prestandard (1998).

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Seismic Evaluation of Existing Buildings | Standards the NEHRP Handbook of Techniques for the Seismic Rehabilitation of Existing Buildings, was developed for FEMA by URS/John A. Blume and Associates, Engineers (URS/Blume). A companion volume, the NEHRP Handbook for the Seismic Evaluation of Existing Buildings, for which a preliminary version was developed for

Seismic Rehabilitation of Existing Buildings  
For the past 3 years the ASCE/SEI Standards Committee on Seismic Rehabilitation has been working to combine ASCE 31-03 into ASCE 4106 while

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also updating both standards. The result of that humongous effort is the soon-to-be released ASCE 41-13: Seismic Evaluation and Retrofit of Existing Buildings.

ASCE 41-13: Seismic Evaluation and Retrofit Rehabilitation ...

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Seismic Evaluation and Rehabilitation CYS has been involved in the seismic evaluation and design of retrofits for buildings and other structures throughout our history.

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Rehabilitation of Existing Buildings. Seismic Evaluation and Rehabilitation of Existing Buildings book. By Bungale S. Taranath. Book Tall Building Design. Click here to navigate to parent product.

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

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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 EU's Construction Products Regulation 305/2011, 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

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## Structural And Architectural Upgrading, Seismic

retrofitting may be needed. Further, it is often decided to enhance the earthquake resistance of facilities that still meet their functional requirements and fulfil their purpose, if they are not earthquake-safe. In order to decide how badly a structure needs seismic upgrading or to prioritise it in a population of structures, a seismic evaluation is needed, which also serves as a guide for the extent and type of strengthening. Seismic codes do not sufficiently cover the delicate phase of seismic evaluation nor the many potential technical options for seismic upgrading; therefore research is on-going and the state-of-the-art is constantly evolving. All the more so as seismic



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evaluation and rehabilitation demand considerable expertise, to make best use of the available safety margins in the existing structure, to adapt the engineering capabilities and techniques at hand to the particularities of a project, to minimise disruption of use, etc. Further, as old structures are very diverse in terms of their materials and layout, seismic retrofitting does not lend itself to straightforward codified procedures or cook-book approaches. As such, seismic evaluation and rehabilitation need the best that the current state-of-the-art can offer on all aspects of earthquake engineering. This volume serves this need, as it gathers the most recent research of top seismic experts from around the world

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On seismic evaluation, retrofitting and closely related subjects.

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The rehabilitation of any structure is necessary, if the potential strength, as on the date, of the structural element or the global strength, found less than proposed, thereby reducing the factor of safety. The reduction in factor of safety alarms the danger signal during the event of disaster especially like earthquake. The ageing of the admixtures of the building components, environmental effects on the materials, repeated excessive or the change in the stresses reduces the strength. The change of use causing undesired change in nature and or of quantity of loading, change made in seismic zone, by national bodies, are the other factors that contribute in

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reduction of potential strength of the building. The compliance of potential strength is a cyclic process and in turns the process of rehabilitation. The evaluation of strength, of rehabilitated building, is the process contributed by the materials used, the methodology adapted, the workmanship, and the required rehabilitated strength. In this paper focus, and emphases, placed on explaining efficient, economical, eco-friendly and optimistic use these factors. Devastative earthquake that rock the Gujarat region, selected to collect the information about the current scenario, in respect of above referred factors and the awareness level among the affected citizens. The information collected from technical

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professionals, the implementers, and the end users, by method of literature reviews and on the expert advice. A case study is conducted; that explains the advantage of retrofitted building in the form of higher safety level for users, and extended longevity of the serviceable life of the building. Further, maintaining lower level of carbon emission, and ratable value for the tax calculation of the building. Key words: - 1) Reduction in strength 2) Eco-friendly 3) Optimum utilization criteria 4) The decision-making process

The present volume contains a total of 23 papers centred on the research area of Seismic Assessment and Rehabilitation of Existing Buildings. This subject

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also forms the core of Project Sfp977231, sponsored by the NATO Science for Peace Office and supported by the Scientific and Technical Research Council of Turkey [ TUBIT AK ]. Most of these papers were presented by the authors at a NATO Science for Peace Workshop held in Izmir on 13 - 14 May, 2003 and reflect a part of their latest work conducted within the general confines of the title of the NATO Project. Middle East Technical University, Ankara, Turkey serves as the hub of Project Sfp977231 and coordinates research under the project with universities within Turkey, e. g. Istanbul Technical University and Kocaeli University, and with partner institutions in Greece and the Former Yugoslav

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Republic of Macedonia. A few articles have also been contributed by invited experts, who are all noted researchers in the field. Altogether, the contents of the volume deal with a vast array of problems in Seismic Assessment and Rehabilitation and cover a wide range of possible solutions, techniques and proposals. It is intended to touch upon many of these aspects separately below. Earthquakes constitute possibly the most widely spread and also the most feared of natural hazards. Recent earthquakes within the first six months of 2003, such as the Bingol Earthquake in Turkey and the Algerian earthquake, have caused both loss of life and severe damage to property.

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Provides nationally applicable guidelines for the use of a local jurisdiction in making informed decisions on rehabilitating seismically hazardous existing buildings. Provides references on the topics discussed in the first report

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