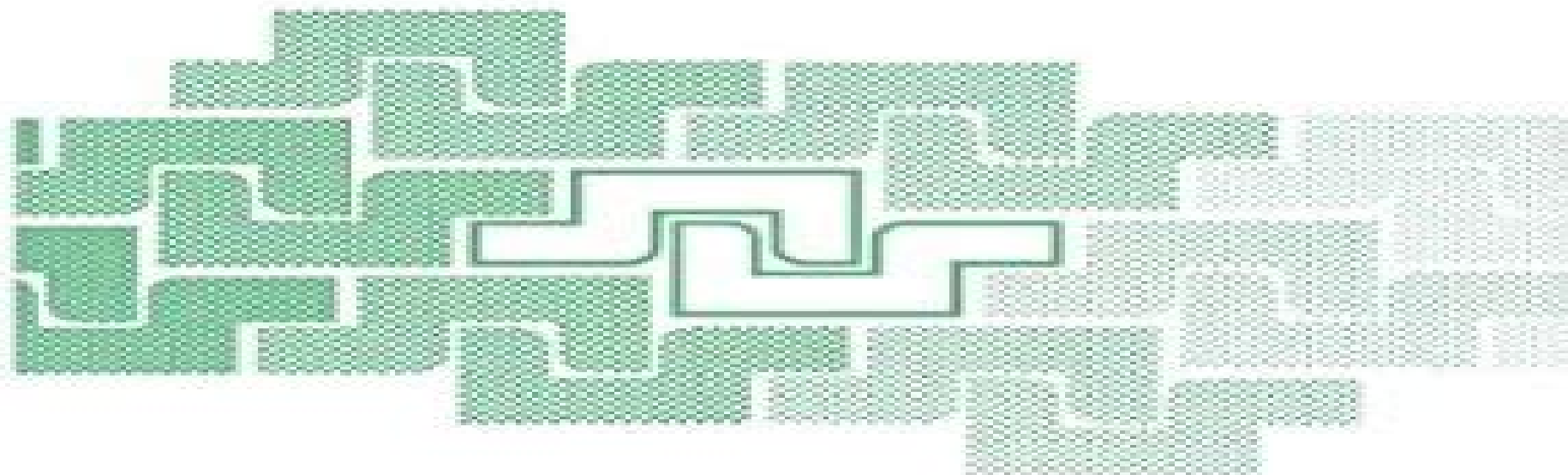




Seismic Assessment and Rehabilitation of Existing Buildings

Edited by

S. Tanvir Wasti and Guney Ozcebe

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Seismic Assessment And Rehabilitation Of Existing Buildings

S. Tanvir Wasti, Guney Ozcebe



Seismic Assessment And Rehabilitation Of Existing Buildings:

Seismic Assessment and Rehabilitation of Existing Buildings S. Tanvir Wasti, Güney Özcebe, 2012-12-06 The present volume contains a total of 23 papers centred on the research area of Seismic Assessment and Rehabilitation of Existing Buildings This subject 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 TUBITAK 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 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 Bingöl Earthquake in Turkey and the Algerian earthquake have caused both loss of life and severe damage to property

Seismic Assessment and Retrofit of Reinforced Concrete Buildings fib Fédération internationale du béton, 2003-08-01 In most parts of the developed world the building stock and the civil infrastructure are ageing and in constant need of maintenance repair and upgrading Moreover in the light of our current knowledge and of modern codes the majority of buildings stock and other types of structures in many parts of the world are substandard and deficient This is especially so in earthquake prone regions as even there seismic design of structures is relatively recent In those regions the major part of the seismic threat to human life and property comes from old buildings Due to the infrastructure's increasing decay frequently combined with the need for structural upgrading to meet more stringent design requirements especially against seismic loads structural retrofitting is becoming more and more important and receives today considerable emphasis throughout the world In response to this need a major part of the fib Model Code 2005 currently under development is being devoted to structural conservation and maintenance More importantly in recognition of the importance of the seismic threat arising from existing substandard buildings the first standards for structural upgrading to be promoted by the international engineering community and by regulatory authorities alike are for seismic rehabilitation of buildings This is the case for example of Part 3 Strengthening and Repair of Buildings of Eurocode 8 i.e. of the draft European Standard for earthquake resistant design and which is the only one among the current 2003 set of 58 Eurocodes attempting to address the problem of structural upgrading It is also the case of the recent 2001 ASCE draft standard on Seismic evaluation of existing buildings and of the 1996 Law for promotion of seismic strengthening of existing

reinforced concrete structures in Japan As noted in Chapter 1 of this Bulletin fib as CEB and FIP did before has placed considerable emphasis on assessment and rehabilitation of existing structures The present Bulletin is a culmination of this effort in the special but very important field of seismic assessment and rehabilitation It has been elaborated over a period of 4 years by Task Group 7 1 Assessment and retrofit of existing structures of fib Commission 7 Seismic design a truly international team of experts representing the expertise and experience of all the important seismic regions of the world In the course of its work the team had six plenary two day meetings in January 1999 in Pavia Italy in August 1999 in Raleigh North Carolina in February 2000 in Queenstown New Zealand in July 2000 in Patras Greece in March 2001 in Lausanne Switzerland and in August 2001 in Seattle Washington In October 2002 the final draft of the Bulletin was presented to public during the 1st fib Congress in Osaka It was also there that it was approved by fib Commission 7 Seismic Design The contents is structured into main chapters as follows 1 Introduction 2 Performance objectives and system considerations 3 Review of seismic assessment procedures 4 Strength and deformation capacity of non seismically detailed components 5 Seismic retrofitting techniques 6 Probabilistic concepts and methods 7 Case studies

Seismic Evaluation and Rehabilitation of Structures Alper Ilki, Michael N. Fardis, 2013-08-15 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 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 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 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 on seismic evaluation retrofitting and closely related subjects Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures Asteris, Panagiotis G.,Plevris, Vagelis,2015-07-13 Rehabilitation of heritage monuments provides sustainable development and cultural significance to a region The most sensitive aspect of the refurbishment of existing buildings lies in the renovation and recovery of structural integrity and public safety The Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures evaluates developing contributions in the field of earthquake engineering with regards to the analysis and treatment of structural damage inflicted by seismic activity This book is a vital reference source for professionals researchers students and engineers active in the field of earthquake engineering who are interested in the emergent developments and research available in the preservation and rehabilitation of heritage buildings following seismic activity Strengthening and Retrofitting of Existing Structures Aníbal Costa,António Arêde,Humberto Varum,2017-10-13 This book presents the fundamentals of strengthening and retrofitting approaches solutions and technologies for existing structures It addresses in detail specific techniques for the strengthening of traditional constructions reinforced concrete buildings bridges and their foundations Finally it discusses issues related to standards and economic decision support tools for retrofitting Buildings and Structures under Extreme Loads Chiara Bedon,Flavio Stochino,Daniel Honfi,2020-11-25 Exceptional loads on buildings and structures may have different causes including high strain dynamic effects due to natural hazards man made attacks and accidents as well as extreme operational conditions severe temperature variations humidity etc All of these aspects can be critical for specific structural typologies and or materials that are particularly sensitive to external conditions In this regard dedicated and refined methods are required for their design analysis and maintenance under the expected lifetime There are major challenges related to the structural typology and material properties with respect to the key features of the imposed design load Further issues can be derived from the need for risk mitigation or retrofit of existing structures as well as from the optimal and safe design of innovative materials systems Finally in some cases no appropriate design recommendations are available and thus experimental investigations can have a key role within the overall process In this Special Issue original research studies review papers and experimental and or numerical investigations are presented for the structural performance assessment of buildings and structures under various extreme conditions that are of interest for design **Advances in Earthquake Engineering for Urban Risk Reduction** S. Tanvir Wasti,Guney Ozcebe,2006-06-15 Earthquakes affecting urban areas can lead to catastrophic situations and hazard mitigation requires preparatory measures at all levels Structural assessment is the diagnosis of the seismic health of buildings Assessment is the prelude to decisions about rehabilitation or even demolition

The scale of the problem in dense urban settings brings about a need for macro seismic appraisal procedures because large numbers of existing buildings do not conform to the increased requirements of new earthquake codes and specifications or have other deficiencies. It is the vulnerable buildings liable to cause damage and loss of life that need immediate attention and urgent appraisal in order to decide if structural rehabilitation and upgrading are feasible. Current economic efficient and occupant friendly rehabilitation techniques vary widely and include the application either of precast concrete panels or layers strips and patches of fiber reinforced polymers FRP in strategic locations. The papers in this book many by renowned authorities in earthquake engineering chart new and vital directions of research and application in the assessment and rehabilitation of buildings in seismic regions. While several papers discuss the probabilistic prediction and quantification of structural damage others present approaches related with the in situ and occupant friendly upgrading of buildings and propose both economical and practical techniques to address the problem.

Seismic Rehabilitation Methods for Existing Buildings Reza Mokarram Aydenlou, 2020-08-01 *Seismic Rehabilitation Methods for Existing Buildings* covers various structures effective parameters in seismic improvement and other factors in seismic loading in eight applied chapters with descriptive classification. The book offers guidance for a seismic rehabilitation project based on the interpretation of publications FEMA and Iranian seismic rehabilitation regulations no 360. It includes real examples of completed and approved projects to stabilize the seismic improvement issues of existing buildings. Six perfectly executed examples with complete refinement details such as modeling step by step improvement studies and executive plans and seismic enhancement images are included. The book also explains the classification of non structural element and how to carry out it s seismic reconstruction studies and in one of the chapters construction and soil improvement methods are discussed along with a practical example. The concepts of seismic rehabilitation in this book are presented with an Info graphic structure that better fixes the concepts in the minds of readers so that when they face a new project they have a more practical use of the content. Provides a fully functional way to evaluate model and present details of a seismic rehabilitation plan for a building. Presents real seismic refurbishment models and step by step methods for providing examples including images tables and charts.

Seismic Rehabilitation of Buildings Ugo Morelli, 1999-11 Provides the Federal Emergency Management Agency s Mitigation Directorate with 25 recommended tasks that should be undertaken through the agency s Existing Buildings Program EBP in the coming years. The EBP s expanded but continuing mission in seismic rehabilitation is to limit fatalities life threatening injuries property economic losses from earthquakes by increasing the number of seismically resistant buildings in all areas of identified earthquake risk. Identifies 4 objectives 25 tasks to help make our building stock less vulnerable to earthquake damage. Seeks to provide the continuity necessary for an effective Existing Buildings Program.

Drift-Driven Design of Buildings Santiago Pujol, Ayhan Irfanoglu, Aishwarya Puranam, 2022-05-12 This book summarizes the most essential concepts that every engineer designing a new building or evaluating an existing structure should consider.

in order to control the damage caused by drift deformation induced by earthquakes It presents the work on earthquake engineering done by Dr Mete Sozen and dozens of his collaborators and students over decades of experimentation analysis and reconnaissance Many of the concepts produced through this work are integral part of earthquake engineering today Nevertheless the connection between the concepts in use today and the original sources is not always explained Drift Driven Design of Buildings summarizes Sozen s research provides common language and notation from subject to subject provides examples and supporting data and adds historical context as well as class notes that were the result of Sozen s dedication to teaching It distills reinforced concrete building design to resist earthquake demands to its essence in a way that no other available book does The recommendations provided are not only essential but also of the utmost simplicity which is not the result of uninformed neglect of relevant parameters but rather the result of careful consideration and selection of parameters to retain only those that are most critical Features Provides the reader with a clear understanding of the essential features that control the seismic response of RC buildings Describes a simple perhaps the simplest seismic design method available Includes the underlying hard data to support and explain the methods described Presents decades of work by one of the most prolific and brilliant civil engineers in the United States in the second half of the 20th century Drift Driven Design of Buildings serves as a useful guide for civil and structural engineering students for self study or in class learning as well as instructors and practicing engineers

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