

SEISMIC REHABILITATION OF CONCRETE STRUCTURES



JAPAN CONCRETE INSTITUTE

Editor: Shirokazu Sugano

Seismic Rehabilitation Of Concrete Structures

**William H.K. Lee, Hiroo Kanamori, Paul
Jennings, Carl Kisslinger**



Seismic Rehabilitation Of Concrete Structures:

Seismic Rehabilitation of Concrete Structures Gajanan M. Sabnis, 1996 **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 Rehabilitation of Concrete Structures Shunsuke Sugano, 2007-01-01 **Seismic Rehabilitation of Concrete Structures** Gajanan M.

Sabnis,1996 Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures Mourad M.

Bakhoun,2010 Techniques for the Seismic Rehabilitation of Existing Buildings ,2006 **Strengthening and**

Retrofitting of Existing Structures ,2018-05 Seismic retrofitting is the modification of existing structures to make them more resistant to seismic activity ground motion or soil failure due to earthquakes The planning of changes to existing buildings differs from new planning through an important condition the existing construction must be taken as the basis of all planning and building actions The need for seismic retrofitting of an existing building can arise due to several reasons like building not designed to code subsequent updating of code and design practice subsequent upgrading of seismic zone deterioration of strength and aging modification of existing structure change in use of the building etc Seismic retrofit is primarily applied to achieve public safety with various levels of structure and material survivability determined by economic considerations In recent years an increased urgency has been felt to strengthen the deficient buildings as part of active disaster mitigation and to work out the modifications that may be made to an existing structure to improve the structural performance during an earthquake Seismic retrofitting schemes can be either global or local based on how many members of the structures they are used for Global Retrofit methods include conventional methods increase seismic resistance of existing structures or non conventional methods reduction of seismic demand Strengthening and Retrofitting of Existing Structures is a compendium of cutting edge trends of the research and existing practices in strengthening and retrofitting of structural elements as well as the findings of a research endeavor initiated by the authors to investigate and develop a robust structural retrofitting scheme by utilizing elastomeric polymers to enhance the resistance of reinforced concrete RC structures It addresses in detail specific techniques for the strengthening of traditional constructions reinforced concrete buildings bridges and their foundations It also presents insight into the key issues relevant to seismic retrofit of concrete frame buildings Many guidelines are reviewed regarding seismic rehabilitation of school office hospital and apartment 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 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 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

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 ,1993-07 **Guide for Seismic Rehabilitation of Existing Concrete Frame & Buildings and Commentary** ,2011 **International Handbook of Earthquake & Engineering Seismology, Part B** William H.K. Lee, Hiroo Kanamori, Paul Jennings, Carl Kisslinger, 2003-07-23 The two volume International Handbook of Earthquake and Engineering Seismology represents the International Association of Seismology and Physics of the Earth s Interior s IASPEI ambition to provide a comprehensive overview of our present knowledge of earthquakes and seismology This state of the art work is the only reference to cover all aspects of seismology a resource library for civil and structural engineers geologists geophysicists and seismologists in academia and industry around the globe Part B by more than 100 leading researchers from major institutions of science around the globe features 34 chapters detailing strong motion seismology earthquake engineering quake prediction and hazards mitigation as well as detailed reports from more than 40 nations Also available is The International Handbook of Earthquake and Engineering Seismology Part A Authoritative articles by more than 100 leading scientists Extensive glossary of terminology plus 2000 biographical sketches of notable seismologists

Seismic Rehabilitation and Retrofitting Jimmy Gupta Gunjan, 2023-04-08 *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 Retrofit of Existing Reinforced Concrete Buildings Stelios Antoniou, 2023-01-31 Seismic Retrofit of Existing Reinforced Concrete Buildings Understand the complexities and challenges of retrofitting building infrastructure Across the world buildings are gradually becoming structurally unsound Many were constructed before seismic load capacity was a mandatory component of building standards and were often built with low quality materials or using unsafe construction practices Many more are simply aging with materials degrading and steel corroding As a result efforts are ongoing to retrofit existing structures and to develop new techniques for assessing and enhancing seismic load capacity in order to create a safer building infrastructure worldwide Seismic Retrofit of Existing Reinforced Concrete Buildings provides a thorough book length discussion of these techniques and their applications Balancing theory and practice the book provides engineers with a broad base of knowledge from which to approach real world seismic assessments and retrofitting projects It incorporates knowledge and experience frequently omitted from the building design process for a fuller account of this critical engineering subfield Seismic Retrofit of Existing Reinforced Concrete Buildings readers will also find Detailed treatment of each available strengthening technique complete with advantages and disadvantages In depth guidelines to select a specific technique for a given building type and or engineering scenario Step by step guidance through the assessment retrofitting process Seismic Retrofit of Existing Reinforced Concrete Buildings is an ideal reference for civil and structural engineering professionals and advanced students particularly those working in seismically active areas *A Benefit-Cost Model for the Seismic Rehabilitation of Buildings*, 1993-07

Proceedings, 1995 **REPAIR AND REHABILITATION OF CONCRETE STRUCTURES** MODI, POONAM I. ,PATEL, CHIRAG N. ,2015-12-01 The field of Concrete Repair and Rehabilitation is gaining importance in view of its positive impacts in terms of socio economic benefits and environmental sustainability Due to growing importance of this field many engineering colleges have included the subject of concrete repair and rehabilitation in the senior undergraduate and

postgraduate course curriculums of civil engineering This book is an earnest attempt to help students of civil engineering in enhancing their understanding and awareness about critical elements of repair and rehabilitation of concrete structure The content is organised in such a way that it fulfils the academic needs of the students This text attempts to dovetail all important aspects such as causes of distress assessment and evaluation of deterioration techniques for repair and rehabilitation along with selection of repair and rehabilitation materials and other important aspects related to preventive maintenance and rehabilitation structural safety measures The primary objective of this textbook is to guide students to Understand the underlying causes and types of deterioration in concrete structure Learn about the field and laboratory testing methods available to evaluate the level of deterioration Get well acquainted with options of repair materials and techniques available to address different types of distress in concrete structure Grasp the knowledge of available techniques and their application for strengthening existing structural systems *Advances in Indian Earthquake Engineering and Seismology* M. L. Sharma, Manish Shrikhande, H. R. Wason, 2018-06-22 This edited volume is an up to date guide for students policy makers and engineers on earthquake engineering including methods and technologies for seismic hazard detection and mitigation The book was written in honour of the late Professor Jai Krishna who was a pioneer in teaching and research in the field of earthquake engineering in India during his decades long work at the University of Roorkee now the Indian Institute of Technology Roorkee The book comprehensively covers the historical development of earthquake engineering in India and uses this background knowledge to address the need for current advances in earthquake engineering especially in developing countries After discussing the history and growth of earthquake engineering in India from the past 50 years the book addresses the present status of earthquake engineering in regards to the seismic resistant designs of bridges buildings railways and other infrastructures Specific topics include response spectrum superposition methods design philosophy system identification approaches retaining walls and shallow foundations Readers will learn about developments in earthquake engineering over the past 50 years and how new methods and technologies can be applied towards seismic risk and hazard identification and mitigation *Proceedings of U.S.-Japan Symposium on Seismic Rehabilitation of Concrete Structures* Nihon Konkurito Kōgaku Kyōkai, National Science Foundation (U.S.), 2000

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