

SEISMIC REHABILITATION OF CONCRETE STRUCTURES



JAPAN CONCRETE INSTITUTE

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Seismic Rehabilitation Of Concrete Structures

Gajanan M. Sabnis



Seismic Rehabilitation Of Concrete Structures:

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

Sabnis,1996 Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures Mourad M. Bakhom,2010 Techniques for the Seismic Rehabilitation of Existing Buildings ,2006 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 **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 of Buildings** ,1993-07 *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

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