Seismic Evaluation And Retrofit Of Existing Buildings Asce Sei 41 13 Standard

Seismic Assessment and Retrofit of Reinforced Concrete BuildingsDesign and Retrofit of Wastewater Treatment Plants for Biological Nutritient RemovalSeismic Design and Retrofit of BridgesBonded Repair and Retrofit of Concrete Structures Using FRP CompositesSeismic Evaluation and Retrofit of 230-kV Porcelain Transformer BushingsSeismic Assessment and Retrofit of Bridge FootingsSeismic Behavior and Retrofit of Older Reinforced Concrete Bridge T-jointsSeismic Evaluation and Retrofit of Concrete BuildingsStrengthening and Retrofitting of Existing StructuresSeismic Repair and Retrofit of Masonry Walls with Carbon OverlaysUse of Fiber Reinforced Composites for Repair Or Retrofit of Prestressed Box GirdersAssessment and Retrofit of Masonry StructuresCurrent Japanese System on Seismic Capacity and Retrofit in Techniques for Existing Reinforced Concrete Buildings and Post-earthquake Damage Inspection and Restoration TechniquesDesign Guidelines for Assessment Retrofit and Repair of Bridges for Seismic PerformanceCarbon Fiber Retrofit of the Arroyo Seco Spandrel ColumnRetrofit of Suspension Bridges in the Central and Eastern United States Using Distributed Supplemental DampingHome Energy Retrofit in CanadaSeismic Performance and Retrofitting of Reinforced Concrete Bridge BentsDevelopment of Seismic Strengthening and Retrofit Strategies for Critical Facilities Using Engineered Cementitious Composite MaterialsSeismic Retrofitting of Rectangular Bridge Columns for Shear fib Fédération internationale du béton Clifford W. Randall M. J. N. Priestley Amir Mirmiran Amir S. Gilani Laura N. Lowes Craig D. Comartin Aníbal Costa Peter Thorup Laursen Matthew W. Bolduc Ahmad A. Hamid Masamichi Ohkubo M. J. N Priestley Thomas Paul Murphy Canada. Natural Resources Canada Keith Evan Kesner David I. McLean

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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

this book presents information that can be used for the design and operation of wastewater treatment plants that utilize biological nutrient removal processes i e processes that utilize biological mechanisms instead of chemical mechanisms to remove phosphorus and nitrogen from wastewaters the book provides basic fundamentals concepts and theories design of prefermentation units various types of bnr systems and secondary clarifiers retrofitting conventional activated sludge plants modeling considerations and special considerations for bnr systems it includes full scale and pilot plant case histories design examples and retrofit of existing plants

because of their structural simplicity bridges tend to beparticularly vulnerable to damage and even collapse when subjectedto earthquakes or other forms of seismic activity recentearthquakes such as the ones in kobe japan and oakland california have led to a heightened awareness of seismic risk andhave revolutionized bridge design and retrofit philosophies in seismic design and retrofit of bridges three of the world s topauthorities on the subject have collaborated to produce the mostexhaustive reference on seismic bridge design currently available following a detailed examination of the seismic effects of actualearthquakes on local area bridges the authors demonstrate designstrategies that will make these and similar structures optimallyresistant to the damaging effects of future seismicdisturbances relying heavily on worldwide research associated with recentquakes seismic design and retrofit of bridges begins with anin depth treatment of seismic design philosophy as it applies tobridges the authors then describe the various geotechnicalconsiderations specific to bridge design such as soil structureinteraction and traveling wave effects subsequent chapters coverconceptual and actual design of various bridge superstructures andmodeling and analysis of these structures as the basis for their design strategies the authors focus is onthe widely accepted capacity design approach in which particularlyvulnerable locations of potentially inelastic flexural deformationare identified and strengthened to accommodate a greater degree ofstress the text illustrates how accurate application of thecapacity design philosophy to the design of new bridges results instructures that can be expected to survive most earthquakes withonly minor repairable damage because the majority of today s bridges were built before thecapacity design approach was understood the authors also devoteseveral chapters to the seismic assessment of existing bridges with the aim of designing and implementing retrofit measures toprotect them against the damaging effects of future earthquakes these retrofitting techniques though not considered appropriate inthe design of new bridges are given considerable emphasis sincethey currently offer the best solution for the preservation ofthese vital and often historically valued thoroughfares practical and applications oriented seismic design and retrofit ofbridges is enhanced with over 300 photos and line drawings toillustrate key concepts and detailed design procedures as the onlytext currently available on the vital topic of seismic bridgedesign it provides an indispensable reference for civil structural and geotechnical engineers as well as students inrelated engineering courses a state of the art text on earthquake proof design and retrofit ofbridges seismic design and retrofit of bridges fills the urgent need for acomprehensive and up to date text on seismic ally resistant bridgedesign the

authors all recognized leaders in the field systematically cover all aspects of bridge design related toseismic resistance for both new and existing bridges a complete overview of current design philosophy for bridges with related seismic and geotechnical considerations coverage of conceptual design constraints and their relationshipto current design alternatives modeling and analysis of bridge structures an exhaustive look at common building materials and theirresponse to seismic activity a hands on approach to the capacity design process use of isolation and dissipation devices in bridge design important coverage of seismic assessment and retrofit design ofexisting bridges

the global response to covid 19 has demonstrated the importance of vigilance and preparedness for infectious diseases particularly influenza there is a need for more effective influenza vaccines and modern manufacturing technologies that are adaptable and scalable to meet demand during a pandemic the rapid development of covid 19 vaccines has demonstrated what is possible with extensive data sharing researchers who have the necessary resources and novel technologies to conduct and apply their research rolling review by regulators and public private partnerships as demonstrated throughout the response to covid 19 the process of research and development of novel vaccines can be significantly optimized when stakeholders are provided with the resources and technologies needed to support their response vaccine research and development to advance pandemic and seasonal influenza preparedness and response focuses on how to leverage the knowledge gained from the covid 19 pandemic to optimize vaccine research and development r d to support the prevention and control of seasonal and pandemic influenza the committee s findings address four dimensions of vaccine r d 1 basic and translational science 2 clinical science 3 manufacturing science and 4 regulatory science

a series of experimental tests investigating the seismic response of reinforced concrete beam column t joints was recently completed at the university of california berkeley the evaluated connection was representative of an interior beam column joint from a multi column bridge frame built in the late 1950 s three one third scale models representing the as built connection and two retrofit connections were tested the results of this research project are an improved understanding of the seismic behavior of lightly reinforced bridge t joints as well as verification of a design procedure for retrofitting this type of connection

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

viable retrofit schemes are necessary to delay or offset replacement of deteriorating concrete bridge members carbon fiber reinforced polymer cfrp pultruded plates can be especially effective when retrofitting bridge members where stiffness fatigue resistance ease of installation and weathering characteristics are a concern the research reported in chapter 1 was undertaken to examine the influence of fatigue loading prior cracking and patch materials on flexural performance of reinforced concrete members retrofitted with externally bonded cfrp plates moreover experimental data from the six reinforced concrete beams tested as part of this research are expected to further evaluate available design equations for external retrofitting of reinforced concrete structures the test results do not suggest a significant effect of fatigue loads show that existing cracks do not significantly impact the strength of retrofitted members and indicate that patch materials can reduce the available bond strength and require additional surface preparation the research reported in chapter 2 presents a novel design approach utilizing externally bonded cfrp plates developed in an attempt to overcome construction errors in a member removed from an adjacent box girder bridge the design methodology was evaluated based on data from testing of a retrofitted girder along with previous tests on as is girders test data suggest appreciable improvements in terms of load carrying capacity and stiffness of the retrofitted girder the relatively simple retrofit plan developed could have been used to delay replacement of the deficient girders the research reported in chapter 3 is aimed at filling some of the gaps in the available test data through retrofitting and testing of a 18 3 m 60 ft prestressed box girder retrofitted with cfrp composite plates with mechanical anchors prior research on the use of cfrps for retrofitting of existing structures has predominantly focused on mildly reinforced concrete members and application to prestressed members is rather limited moreover data regarding performance of mechanical anchors for enhancing bond characteristics of cfrp composites are scant after a description of the design procedure the test data are used to evaluate the design method current design recommendations and performance of mechanical anchors

this book provides background reference material and guidance to design professionals building owners and contractors on existing masonry construction characteristics of masonry structures typical material properties and analytical approaches are included for historic transitional and modern masonry construction typologies the main focus of the book is structural stabilization strengthening and retrofit with maintenance and serviceability items such as water penetration and cleaning addressed as subtopics this book also incorporates discussion on the evaluation and retrofit process site investigation and analysis retrofit monitoring and maintenance assessment and retrofit projects conducted by the authors are presented as case studies to highlight technical issues and illustrate the process of developing a rational methodology for different types of masonry assessment and retrofit projects assessment and retrofit projects conducted by the authors are presented in a special chapter as case studies to highlight technical issues and illustrate the process of developing a rational assessment and retrofit methodology for different types of masonry assessment and retrofit projects

to address the challenges involved in reducing residential energy consumption in existing housing the retrofit options workshop was held in 1993 bringing together representatives from key groups in the canadian energy retrofit field this publication contains the results of the workshop deliberations and recommendations in the areas of market opportunities for energy retrofits the current market context retrofit programs and implementation of retrofit options it also appends detailed studies commissioned in preparation for the workshop the subjects of these studies include the characteristics of existing canadian housing reviews of studies and assessments of energy retrofit potential profiles of canadian homeowners and of the renovation industry retrofit market interventions interviews with stakeholders in the energy retrofit field and heating system retrofits

summary available via the world wide as of 8 29 2002 from the bridge research and information center web site

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