

MAX SERVICE LOADS AT LINK END

$$\begin{aligned} V_{oc} &= 1 \text{ kips} \\ M_{oc} &= 1 \text{ ft-kips} \\ V_{uc} &= 1 \text{ kips} \\ M_{uc} &= 1 \text{ ft-kips} \end{aligned}$$

MAX HORIZ. SEISMIC LOADS AT LINK END

$$\begin{aligned} V_g &= 68.95 \text{ kips (CBC 30A-1)} \\ P_g &= 56 \text{ kips (CBC 30A-1)} \\ M_g &= 139 \text{ ft-kips (CBC 30A-1)} \end{aligned}$$

LINK LENGTH

$$e = 4 \text{ ft}$$

LINK YIELD STRESS

$$F_y = 50 \text{ ksi}$$

REDUNDANCY FACTOR

$$\rho = 1.5$$

IMPORTANCE FACTOR

$$I = 1.15 \text{ (CBC Tab. 16A-K)}$$

SEISMIC COEFFICIENT

$$C_s = 0.44 \text{ (CBC Tab. 16A-Q)}$$

BEAM LENGTH BETWEEN COL. CENTERS

$$L = 28 \text{ ft (including link)}$$

STORY HEIGHT

$$h = 14 \text{ ft}$$

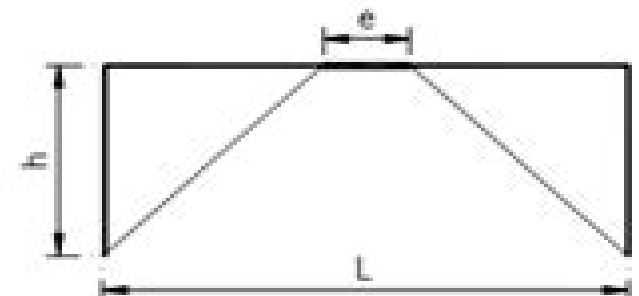
MAXIMUM INELASTIC STORY DRIFT

$$\Delta_u = 0.65 \text{ in (CBC eq 30A-17)}$$

	$I_x$	$r_x$	$r_y$	$Z_x$	$k$
20	10.4	0.47	10.13	0.77	15.7
	394	4.44	2.59	85	1.38

THE LINK DESIGN IS ADEQUATE.

(USE 3/8 x 4-5/8 @ 24 in o.c. INTERMEDIATE & END STIFFENERS WITH 1/4" FILLET WELD.)



THE ALLOWABLE DESIGN LOADS (CBC Sec. 1812A.3.1)

$$LC1 = D + 0.75[L + (\rho E_b + 0.5C_s D) / 1.4]$$

$$LC2 = D + (\rho E_b + 0.5C_s D) / 1.4$$

$$V = \text{MAX}(LC1, LC2) = 75.1 \text{ kips}$$

$$P = \text{MAX}(LC1, LC2) = 60.0 \text{ kips}$$

$$M = \text{MAX}(LC1, LC2) = 150.1 \text{ ft-kips}$$

THE LOCAL BUCKLING LIMITATION (CBC Sec. 2213A.10.2, ASD Tab. B5.1)

$$b_f / (2t_f) = 6.58 < 52 / (F_y)^{0.4} = 7.35 \text{ [Satisfactory]}$$

$$d / t_w = 22.13 < \begin{cases} 640 (1 - 3.74 P_c / P_y) / (F_y)^{0.4} = 70.20 & \text{for } P_c / P_y < 0.16 \\ 257 / (F_y)^{0.4} = \text{N/A} & \text{for } P_c / P_y > 0.16 \end{cases}$$

[Satisfactory]

$$\text{Where } P_y = F_y A = 1000 \text{ kips}$$

THE FLEXURAL CAPACITY (CBC 2213A.10.3)

$$M_{tr} = Z_x (f_y - f_b) = 328.1 \text{ ft-kips} > M \text{ [Satisfactory]}$$

$$\text{Where } f_b = P / (2b_f t_f) = 3.85 \text{ ksi}$$

$$A_f = b_f t_f = 7.80 \text{ in}^2$$

THE SHEAR CAPACITY (CBC 2213A.10.3, 2213A.10.5)

$$\Omega = V_g / V = 1.79 > \Omega_{min} = 1.0 / 0.8 = 1.25 \text{ [Satisfactory]}$$

# Seismic Engineering 2001

**KJ Lindholm-Leary**



## Seismic Engineering 2001:

**Seismic Engineering-2001**, 2001      **The Nisqually, Washington, Earthquake of February 28, 2001 : Lifeline Performance** Peter W. McDonough, 2002-01-01 Assesses damage to buildings and infrastructure as a result of the February 2001 earthquake near Olympia that also impacted Seattle The 12 chapters evaluate the performance of the highway systems power systems water supply railways gas and oil pipelines communication facilities airports mari      Earthquake Engineering Yousef Bozorgnia, Vitelmo V. Bertero, 2004-05-11 This multi contributor book provides comprehensive coverage of earthquake engineering problems an overview of traditional methods and the scientific background on recent developments It discusses computer methods on structural analysis and provides access to the recent design methodologies and serves as a reference for both professionals and res      Hazard Analysis of Seismic Soil Liquefaction Yu Huang, Miao Yu, 2017-04-11 This book presents comprehensive hazard analysis methods for seismic soil liquefaction providing an update on soil liquefaction by systematically reviewing the phenomenon s occurrence since the beginning of this century It also puts forward a range of advanced research methods including in situ tests laboratory studies physical model tests numerical simulation and performance based assessment Recent seismic liquefaction related damage to soils and foundations demonstrate the increasing need for the comprehensive hazard analysis of seismic soil liquefaction in order to mitigate this damage and protect human lives As such the book addresses the comprehensive hazard analysis of seismic soil liquefaction including factors such as macroscopic characteristics evaluating the liquefaction potential dynamic characteristics and deformation processes providing reliable evaluation results for liquefaction potential and deformation in the context of risk assessment p      Earthquake Geotechnical Engineering Kyriazis D. Pitilakis, 2007-06-14 This book contains the full papers on which the invited lectures of the 4th International Conference on Geotechnical Earthquake Engineering 4ICEGE were based The conference was held in Thessaloniki Greece from 25 to 28 June 2007 The papers offer a comprehensive overview of the progress achieved in soil dynamics and geotechnical earthquake engineering examine ongoing and unresolved issues and discuss ideas for the future      Architectural Glass to Resist Seismic and Extreme Climatic Events Richard A. Behr, 2009-09-14 Glass is a popular cladding material for modern buildings The trend for steel framed glass clad buildings instead of those using traditional materials such as brick and concrete has inherent problems These include for example the performance of architectural glass in extreme climatic events such as windstorms and heavy snow loads and also during earthquakes This book reviews the state of the art in glass and glazing technology to resist failure due to these natural events Building code seismic requirements for architectural glass in the United States are considered first of all followed by a chapter on glazing and curtain wall systems to resist earthquakes The next two chapters discuss snow loads on building envelopes and glazing systems and types and design of glazing systems to resist snow loads Wind pressures and the impact of wind borne debris are then considered in the next group of chapters which also review special types of glazing systems to

resist windstorms A final chapter reviews test methods for the performance of glazing systems during earthquakes and extreme climatic events With its distinguished editor and team of contributors Architectural glass to resist seismic and extreme climatic events is an essential resource for architects structural civil and architectural engineers researchers and those involved in designing and specifying building glazing and cladding materials in areas where severe windstorms snow and earthquakes are a threat Considers the state of the art in glass and glazing technology to resist failure due to extreme climatic events Reviews specific building techniques and test methods to enhance glazing performance during snow storms wind storms and earthquakes

**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      **Improved Seismic Monitoring - Improved Decision-Making**

National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on Seismology and Geodynamics, Committee on the Economic Benefits of Improved Seismic Monitoring, 2006-01-04 Improved Seismic Monitoring Improved Decision Making describes and assesses the varied economic benefits potentially derived from modernizing and expanding seismic monitoring activities in the United States These benefits include more effective loss avoidance regulations and strategies improved understanding of earthquake processes better engineering design more effective hazard mitigation strategies and improved emergency response and recovery The economic principles that must be applied to determine potential benefits are reviewed and the report concludes that although there is insufficient information available at present to fully quantify all the potential benefits the annual dollar costs for improved seismic monitoring are in the tens of millions and the potential annual dollar benefits are in the hundreds of millions      **STESSA 2003 - Behaviour**

**of Steel Structures in Seismic Areas** Federico Mazzolani, 2018-03-29 Presenting a comprehensive overview of recent developments in the field of seismic resistant steel structures this volume reports upon the latest progress in theoretical and experimental research into the area and groups findings in the following key sections performance based design of structures structural integrity under exceptional loading material and member behaviour connections global behaviour moment resisting frames passive and active control strengthening and repairing codification design and application

**Displacement-based Seismic Design of Reinforced Concrete Buildings** fib Fédération internationale du béton, 2003 A brief summary of the history of seismic design as given in chapter 1 indicates that initially design was purely based on strength or force considerations When the importance of displacement however became better appreciated it was attempted to modify the existing force based approach in order to include considerations of displacement rather than to totally reconsider the procedure on a more rational basis In the last decade then several researchers started pointing out this inconsistency proposing displacement based approaches for earthquake engineering evaluation and design with the aim of providing improved reliability in the engineering process by more directly relating computed response and expected structural performance The main objective of this report is to summarize critically review and compare the displacement based approaches proposed in the literature thus favouring code implementation and practical use of rational and reliable methods Chapter 2 Seismic performance and design objectives of this report introduces concepts of performance levels seismic hazard representation and the coupling of performance and hazard to define performance objectives In fact for displacement analysis to be relevant in the context of performance based design the structural engineer must select

appropriate performance levels and seismic loadings A critical review of some engineering limit states appropriate to the different performance levels is therefore proposed In chapter 3 Conceptual basis for displacement based earthquake resistant design the fundamental principles associated with displacement of the ground during an earthquake and the effects in terms of displacement in the structure are reviewed The historical development guides the presentation with a review of general linear and nonlinear structural dynamics principles general approaches to estimate displacement for both ground and structure and finally a general presentation of the means to measure and judge the appropriateness of the displacements of the structure in section Chapter 4 Approaches and procedures for displacement based design can be somehow considered the fundamental part of the report since a critical summary of the displacement based approaches proposed by different researchers is presented there Displacement based design may require specific characterization of the input ground motion a topic addressed in Chapter 5 Seismic input In general various pertinent definitions of input motion for non code format analysis are included while peak ground parameters necessary for code base shear equations are only addressed as needed for the definition of motion for analysis Chapter 6 Displacement capacity of members and systems addresses the fundamental problem of evaluating the inelastic displacement capacity of reinforced concrete members and realistic values of their effective cracked stiffness at yielding including effects of shear and inclined cracking anchorage slip bar buckling and of load cycling In Chapter 7 Application and evaluation of displacement based approaches some of the many different displacement based design procedures briefly introduced in Chapter 4 are applied to various case studies identifying and discussing the difficulties a designer may encounter when trying to use displacement based design Results for five different case studies designed in accordance with eight different displacement based design methods are presented Although in general case studies are considered a useful but marginal part of a state of the art document in this case it has to be noted that chapter 7 is possibly the most innovative and fundamental part of the whole report The conclusions of chapter 7 are the fundamental and essential conclusions of the document and allow foreseeing a bright future for displacement based design approaches The state of art report has been elaborated over a period of 4 years by Task Group 7 2 Displacement based design and assessment of fib Commission 7Seismic design a truly international team of experts representing the expertise and experience of all the important seismic regions of the world In October 2002 the final draft of the Bulletin was presented to the public during the 1st fibCongress in Osaka It was also there that it was approved by fib Commission 7Seismic Design

Fire Following Earthquake Charles Scawthorn,John M. Eidinger,Anshel Schiff,2005-01-01 Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph covers the entire range of fire following earthquake FFE issues from historical fires to 20th century fires in Kobe San Francisco Oakland Berkeley and Northridge FFE has the potential of causing catastrophic losses in the United States Japan Canada New Zealand and other seismically active countries with wood houses This comprehensive book on FFE and urban conflagrations provides state of the practice

insight on unique issues such as large diameter flex hose applications by fire and water departments Topics include History of past fires Computer modeling of fire spread in the post earthquake urban environment Concurrent damage and fire impacts for water power gas communication and transportation systems Examples of reliable water systems built or designed in San Francisco Vancouver Berkeley and Kyoto Use of large diameter 5 in and ultralarge diameter 12 in flex hose for fire fighting and water restoration and Cost effectiveness of various FFE mitigation strategies with a detailed benefit cost model Water utility engineers fire fighting professionals and emergency response planners will benefit from reading this book

**Seismic Behavior of Steel Storage Pallet Racking Systems** Carlo Andrea Castiglioni, 2016-02-04 This book presents the main outcomes of the first European research project on the seismic behavior of adjustable steel storage pallet racking systems In particular it describes a comprehensive and unique set of full scale tests designed to assess such behavior The tests performed include cyclic tests of full scale rack components namely beam to upright connections and column base connections static and dynamic tests to assess the friction factor between pallets and rack beams full scale pushover and pseudodynamic tests of storage racks in down aisle and cross aisle directions and full scale dynamic tests on two bay three level rack models The implications of the findings of this extensive testing regime on the seismic behavior of racking systems are discussed in detail highlighting e g the confirmation that under severe dynamic conditions sliding is the main factor influencing rack response This work was conceived during the development of the SEISRACKS project Its outcomes will contribute significantly to increasing our knowledge of the structural behavior of racks under earthquake conditions and should inform future rack design

*Seismic Design of Industrial Facilities* Sven Klinkel, Christoph Butenweg, Gao Lin, Britta Holtschoppen, 2013-09-04 Seismic Design of Industrial Facilities demands a deep knowledge on the seismic behaviour of the individual structural and non structural components of the facility possible interactions and last but not least the individual hazard potential of primary and secondary damages From 26-27 September 2013 the International Conference on Seismic Design of Industrial Facilities firstly addresses this broad field of work and research in one specialized conference It brings together academics researchers and professional engineers in order to discuss the challenges of seismic design for new and existing industrial facilities and to compile innovative current research This volume contains 50 contributions to the SeDIF Conference covering the following topics with respect to the specific conditions of plant design International building codes and guidelines on the seismic design of industrial facilities Seismic design of non structural components Seismic design of silos and liquid filled tanks Soil structure interaction effects Seismic safety evaluation uncertainties and reliability analysis Innovative seismic protection systems Retrofitting The SeDIF Conference is hosted by the Chair of Structural Statics and Dynamics of RWTH Aachen University Germany in cooperation with the Institute for Earthquake Engineering of the Dalian University of Technology China

**Seismic Vulnerability of Structures** Philippe Gueguen, 2013-03-05 This book is focused on the seismic vulnerability assessment methods applied to existing buildings describing several behaviors and new

approaches for assessment on a large scale urban area It is clear that the majority of urban centers are composed of old buildings designed according to concepts and rules that are inadequate to the seismic context How to assess the vulnerability of existing buildings is an essential step to improve the management of seismic risk and its prevention policy After some key reminders this book describes seismic vulnerability methods applied to a large number of structures buildings and bridges in moderate France Switzerland and strong seismic prone regions Italy Greece *Perspectives on Earthquake Geotechnical Engineering* Atilla Ansal, Mohamed Sakr, 2015-04-15 This book offers a broad perspective on important topics in earthquake geotechnical engineering and gives specialists and those that are involved with research and application a more comprehensive understanding about the various topics Consisting of eighteen chapters written by authors from the most seismic active regions of the world such as USA Japan Canada Chile Italy Greece Portugal Taiwan and Turkey the book reflects different views concerning how to assess and minimize earthquake damage The authors a prominent group of specialists in the field of earthquake geotechnical engineering are the invited lecturers of the International Conference on Earthquake Geotechnical Engineering from Case History to Practice in the honour of Professor Kenji Ishihara held in Istanbul Turkey during 17-19 June 2013 Journal of the House of Representatives of the United States United States Congress House, 2012 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House *Retrofitting of Concrete Structures by Externally Bonded FRPs, With Emphasis on Seismic Applications* fib Fédération internationale du béton, 2006-01-01 fib Bulletin 35 is the first bulletin to publish documentation from an fib short course These courses are held worldwide and cover advanced knowledge of structural concrete in general or specific topics They are organized by fib and given by internationally recognized experts in fib often supplemented with local experts active in fib They are based on the knowledge and expertise from fib's ten Commissions and nearly fifty Task Groups fib Bulletin 35 presents the course materials developed for the short course Retrofitting of Concrete Structures through Externally Bonded FRP with emphasis on Seismic Applications given in Ankara and Istanbul in June 2005 The course drew on expertise both from outside Turkey and from the large pool of local experts on this subject In most countries of the world the building stock is ageing and needs continuous maintenance or repair Moreover the majority of existing constructions are deficient in the light of current knowledge and design codes The problem of structural deficiency of existing constructions is especially acute in seismic regions as even there seismic design of structures is relatively recent The direct and indirect costs of demolition and reconstruction of structurally deficient constructions are often prohibitive furthermore they entail a substantial waste of natural resources and energy Therefore structural retrofitting is becoming increasingly widespread throughout the world Externally bonded Fibre Reinforced Polymers FRPs are rapidly becoming the technique of choice for structural retrofitting They are cleaner and easier to apply than conventional retrofitting techniques



reduce disruption to the occupancy and operation of the facility do not generate debris or waste and reduce health and accident hazards at the construction site as well as noise and air pollution in the surroundings fib Bulletin 35 gives state of the art coverage of retrofitting through FRPs and presents relevant provisions from three recent standardisation milestones EN 1998 3 2005 Eurocode 8 Design of structures for earthquake resistance Part 3 Assessment and retrofitting of buildings the 2005 Draft of the Turkish seismic design code and the Italian regulatory document CNR DT 200 04 Instructions for Design Execution and Control of Strengthening Interventions by Means of Fibre Reinforced Composites 2004

Geotechnical Applications for Earthquake Engineering: Research Advancements Sitharam, T.G., 2012-04-30 Disaster preparedness and response management is a burgeoning field of technological research and staying abreast of the latest developments within the field is a difficult task Geotechnical Applications for Earthquake Engineering Research Advancements has collected chapters from experts from around the world in a variety of applications frameworks and methodologies and prepared them in a form that serves as a handy reference and research guide to practitioners and academics alike By protecting society with earthquake engineering the latest research can make the world a safer place

**Concrete Buildings in Seismic Regions** George G. Penelis, Gregory G. Penelis, 2014-03-24 Bearing in mind that reinforced concrete is a key component in a majority of built environment structures Concrete Buildings in Seismic Regions combines the scientific knowledge of earthquake engineering with a focus on the design of reinforced concrete buildings in seismic regions This book addresses practical design issues providing an integrated comprehensible and clear presentation that is suitable for design practice It combines current approaches to seismic analysis and design with a particular focus on reinforced concrete structures and includes an overview of structural dynamics analysis and design of new R C buildings in seismic regions post earthquake damage evaluation pre earthquake assessment of buildings and retrofitting procedures seismic risk management of R C buildings within urban nuclei extended numerical example applications Concrete Buildings in Seismic Regions determines guidelines for the proper structural system for many types of buildings explores recent developments and covers the last two decades of analysis design and earthquake engineering Divided into three parts the book specifically addresses seismic demand issues and the basic issues of structural dynamics considers the capacity of structural systems to withstand seismic effects in terms of strength and deformation and highlights existing R C buildings under seismic action All of the book material has been adjusted to fit a modern seismic code and offers in depth knowledge of the background upon which the code rules are based It complies with the last edition of European Codes of Practice for R C buildings in seismic regions and includes references to the American Standards in effect for seismic design **Structural Rehabilitation of Old Buildings** Aníbal Costa, João Miranda Guedes, Humberto Varum, 2013-09-11 This present book describes the different construction systems and structural materials and elements within the main buildings typologies and it analyses the particularities of each of them including at the end general aspects concerning laboratory and in situ testing

numerical modeling vulnerability assessment and construction maintenance

## Seismic Engineering 2001 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Seismic Engineering 2001**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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