

MAX SERVICE LOADS AT LINK END

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

$$\begin{array}{ccccc} 20 & 10.4 & 0.47 & 10.13 & 0.77 & 75.7 \\ I_x & r_x & r_y & Z_x & k & \\ 394 & 4.44 & 2.59 & 85 & 1.38 & \end{array}$$

MAX HORIZ. SEISMIC LOADS AT LINK END

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

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

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

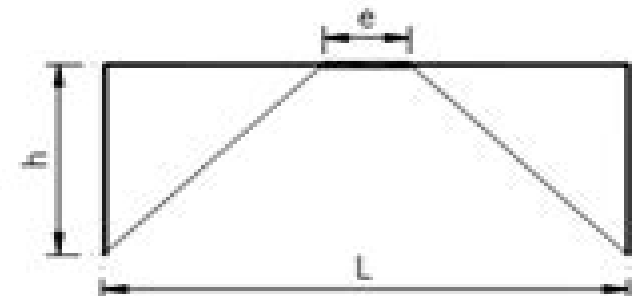
$$L = 28 \text{ ft (including link)}$$

STORY HEIGHT

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

MAXIMUM INELASTIC STORY DRIFT

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



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

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

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

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

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

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

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)

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

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

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

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

Maria Pina Limongelli, Mehmet Çelebi



Seismic Engineering 2001:

Seismic Engineering-2001 ,2001 *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 **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 *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 The 1755 Lisbon Earthquake: Revisited Luiz Mendes-Victor,Carlos Sousa Oliveira,João Azevedo,A. Ribeiro,2008-10-14 The 1755 earthquake and tsunami were influential not only in Portugal but in all European and North African countries where the devastating effects were felt The entire world was deeply impressed and the discussion of its causes generated a large amount of scientific and metaphysical speculation It inspired philosophers poets and writers The socio economic consequences of the event were great and affected the future organization and development of Portugal The possibility of a similar occurrence urges society and the scientific community to reflect on its lessons Audience This work is of interest to experts in seismology earthquake engineering civil protection urban planning and it is a reference book for doctoral students 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 **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 **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,2011 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

2nd fib Congress in Naples Italy Vol1 FIB – International Federation for Structural Concrete, 2006-06-01

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

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

Protection of Historical Constructions Ioannis Vayas, Federico M. Mazzolani, 2021-12-03 This book gathers the peer reviewed papers presented at the 4th International Conference on Protection of Historical Constructions PROHITECH held in Athens Greece on October 25 27 2021 The conference topics encompass structural and earthquake engineering intervention strategies materials and technologies digital documentation architecture and urban planning cultural heritage all of which represented by a showcase of case studies covering different construction materials as well as sustainability energy efficiency and adaptation to climate changes As such the book represents an invaluable up to the minute tool providing an essential overview of protection of historical constructions and offers an important platform to researchers engineers and architects

Green Energy Advances Diana Enescu, 2019 This book contributes to understanding the development and application of green energy solutions The term green energy is widely used today to indicate sustainable energy sources with zero or minimal environmental and economic impact obtained from various renewable energy sources The contents presented in this book deal with different solutions from small scale applications thermoelectric energy harvesting to energy efficiency in buildings with local renewable energy production also in critical seismic sites local energy systems smart energy management of storage and complex interactions exploitation of biomasses from agricultural wastes and voluntary certifications associated with energy trading in large energy systems These aspects mark a more sustainable evolution of the society with wider green energy usage

Performance-Based Seismic Design of Structures Satyabrata Choudhury, 2024-07-01 Seismic design of structures is fast turning to performance based design PBD from old codal force based design FBD method The aim of the book is to expose readers to the meaning and need of PBD the evolution of PBD to date its various forms and applications Various design philosophies and procedures have been described including modelling aspects and hazard considerations

backed by examples Direct displacement based design DDBD and Unified PBD UPBD of reinforced concrete RC frame buildings RC dual systems steel frame buildings and bridge piers have also been explained The main features of this book are as follows Illustrates performance based seismic design to achieve the design target by performance objective oriented design procedure Covers modern design philosophies modelling aspects concepts in nonlinearities and use of supplemental damping devices Contains a chapter on seismic safety of nonstructural components Describes UPBD design procedure and examples of different structural systems Includes application and examples with reference to SAP2000 software This book is aimed at graduate students researchers and professionals in civil engineering earthquake engineering and structural design

Natural Hazards in El Salvador William Ingersoll Rose,2004 **Seismic Structural Health Monitoring** Maria Pina Limongelli,Mehmet Çelebi,2019-04-24 This book includes a collection of state of the art contributions addressing both theoretical developments in and successful applications of seismic structural health monitoring S2HM Over the past few decades Seismic SHM has expanded considerably due to the growing demand among various stakeholders owners managers and engineering professionals and researchers The discipline has matured in the process as can be seen by the number of S2HM systems currently installed worldwide Furthermore the responses recorded by S2HM systems hold great potential both with regard to the management of emergency situations and to ordinary maintenance needs The book s 17 chapters prepared by leading international experts are divided into four major sections The first comprises six chapters describing the specific requirements of S2HM systems for different types of civil structures and infrastructures buildings bridges cultural heritage dams structures with base isolation devices and for monitoring different phenomena e g soil structure interaction and excessive drift The second section describes available methods and computational tools for data processing while the third is dedicated to hardware and software tools for S2HM In the book s closing section five chapters report on state of the art applications of S2HM around the world *Seismic Design of Steel Structures* Victor Gioncu,Federico Mazzolani,2013-11-20 Providing real world applications for different structural types and seismic characteristics *Seismic Design of Steel Structures* combines knowledge of seismic behavior of steel structures with the principles of earthquake engineering This book focuses on seismic design and concentrates specifically on seismic resistant steel structures Drawing on experience from the Northridge to the Tohoku earthquakes it combines understanding of the seismic behavior of steel structures with the principles of earthquake engineering The book focuses on the global as well as local behavior of steel structures and their effective seismic resistant design It recognises different types of earthquakes takes into account the especial danger of fire after earthquake and proposes new bracing and connecting systems for new seismic resistant steel structures and also for upgrading existing reinforced concrete structures Includes the results of the extensive use of the DUCTROCT M computer program which is used for the evaluation of the seismic available ductility both monotonic and cyclic for different types of earthquakes Demonstrates good design principles by highlighting the behavior of seismic

resistant steel structures in many applications from around the world Provides a methodological approach making a clear distinction between strong and low to moderate seismic regions This book serves as a reference for structural engineers involved in seismic design as well as researchers and graduate students of seismic structural analysis and design

Earthquake Resistant Design and Risk Reduction David J. Dowrick, 2009-07-20 Earthquake Resistant Design and Risk Reduction 2nd edition is based upon global research and development work over the last 50 years or more and follows the author's series of three books Earthquake Resistant Design 1st and 2nd editions 1977 and 1987 and Earthquake Risk Reduction 2003 Many advances have been made since the 2003 edition of Earthquake Risk Reduction and there is every sign that this rate of progress will continue apace in the years to come Compiled from the author's wide design and research experience in earthquake engineering and engineering seismology this key text provides an excellent treatment of the complex multidisciplinary process of earthquake resistant design and risk reduction New topics include the creation of low damage structures and the spatial distribution of ground shaking near large fault ruptures Sections on guidance for developing countries response of buildings to differential settlement in liquefaction performance based and displacement based design and the architectural aspects of earthquake resistant design are heavily revised This book Outlines individual national weaknesses that contribute to earthquake risk to people and property Calculates the seismic response of soils and structures using the structural continuum Subsoil Substructure Superstructure Non structure Evaluates the effectiveness of given design and construction procedures for reducing casualties and financial losses Provides guidance on the key issue of choice of structural form Presents earthquake resistant design methods for the main four structural materials steel concrete reinforced masonry and timber as well as for services equipment plant and non structural architectural components Contains a chapter devoted to problems involved in improving retrofitting the existing built environment This book is an invaluable reference and guiding tool to practising civil and structural engineers and architects researchers and postgraduate students in earthquake engineering and engineering seismology local governments and risk management officials

Adopting the Melody of Appearance: An Emotional Symphony within **Seismic Engineering 2001**

In a world used by screens and the ceaseless chatter of immediate connection, the melodic beauty and mental symphony produced by the prepared term frequently disappear in to the back ground, eclipsed by the persistent noise and interruptions that permeate our lives. However, located within the pages of **Seismic Engineering 2001** a stunning literary treasure full of fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this charming masterpiece conducts readers on a mental journey, well unraveling the hidden tunes and profound affect resonating within each carefully crafted phrase. Within the depths of this emotional evaluation, we can discover the book is main harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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