

Reducing the Risks of Nonstructural Earthquake Damage



A PRACTICAL GUIDE

Issued by FEMA in furtherance of the Decade for Natural Disaster Reduction

Reducing The Risks Of Nonstructural Earthquake Damage A Practical Guide

Eduardo A. Fierro



Reducing The Risks Of Nonstructural Earthquake Damage A Practical Guide:

Reducing the Risks of Nonstructural Earthquake Damage Federal Emergency Management Agency, 2013-04-24 This guide was developed to fulfill several different objectives and address a wide audience with varying needs The primary intent is to explain the sources of nonstructural earthquake damage in simple terms and to provide information on effective methods of reducing the potential risks The recommendations contained in this guide are intended to reduce the potential hazards but cannot completely eliminate them The primary focus of this guide is to help the reader understand which nonstructural items are most vulnerable in an earthquake and most likely to cause personal injury costly property damage or loss of function if they are damaged In addition this guide contains recommendations on how to implement cost effective measures that can help to reduce the potential hazards This guide is intended primarily for use by a lay Audience building owners facilities managers maintenance personnel store or office managers corporate agency department heads business proprietors homeowners etc Some readers may be small business owners with a small number of potential problems that could be addressed in a few days time by having a handyman install some of the generic details presented in this guide Other readers may be responsible for hundreds of facilities and may need a survey methodology to help them understand the magnitude of their potential problems

Reducing the Risks of Nonstructural Earthquake Damage Eduardo A. Fierro, Sigmund A. Freeman, Cynthia L. Perry, 1994 Explains the sources of nonstructural earthquake damage in simple terms and provides information on effective methods of reducing the potential risks Intended for a lay audience building owners facilities managers maintenance personnel store or office managers corporate agency department heads business proprietors homeowners Covers building utility systems batteries piping chillers architectural elements stairways windows exterior signs and furniture and contents library stacks artwork stoves cabinets etc Drawings and photos Glossary and bibliography

Reducing the Risks of Nonstructural Earthquake Damage U. s. Department of Homeland Security, Federal Emergency Management Agency, 2013-04-02 Nonstructural failures have accounted for the majority of earthquake damage in several recent U S earthquakes Thus it is critical to raise awareness of potential nonstructural risks the costly consequences of nonstructural failures and the opportunities that exist to limit future losses Nonstructural components of a building include all of those components that are not part of the structural system that is all of the architectural mechanical electrical and plumbing systems as well as furniture fixtures equipment and contents Windows partitions granite veneer piping ceilings air conditioning ducts and equipment elevators computer and hospital equipment file cabinets and retail merchandise are all examples of nonstructural components that are vulnerable to earthquake damage The primary purpose of this guide is to explain the sources of nonstructural earthquake damage and to describe methods for reducing the potential risks in simple terms This guide is intended for use by a non engineer audience located within the United States this audience includes building owners facility managers maintenance personnel store or office managers corporate or agency department heads

business proprietors risk managers and safety personnel The guide is also designed to be useful for design professionals especially those who are not experienced with seismic protection of nonstructural components It addresses nonstructural issues typically found in schools office buildings retail stores hotels data centers hospitals museums and light manufacturing facilities FEMA 74 explains the sources of earthquake damage that can occur in nonstructural components and provides information on effective methods for reducing risk associated with nonstructural earthquake damage It is intended for use by a non engineer audience that includes building owners facility managers maintenance personnel store or office managers corporate or agency department heads and homeowners The reference material contained within the third edition of FEMA 74 is now approaching 20 years old A considerable amount of new information now exists as a result of ongoing National Earthquake Hazard Reduction Program NEHRP activities local and state government programs private sector initiatives and academic work focused on reducing the potential for nonstructural earthquake damage

Reducing the Risks of Nonstructural Earthquake Damage, 2012 **Reducing Risks of Nonstructural Earthquake Damage** United States. Federal Emergency Management Agency, 1985 **Reducing the Risks of Nonstructural Earthquake Damage** Robert Reitherman, 1983 **Reducing the risks of nonstructural earthquake damage** Eduardo A. Fierro, 1994 *Reducing the Risks of Nonstructural Earthquake Damage* Robert Reitherman, California Seismic Safety Commission, Federal Emergency Management Agency, Scientific Service, Inc, 1985 *Reducing the Risks of Nonstructural Earthquake Damage*, 2008

Reducing the Risks of Nonstructural Earthquake Damage Robert Reitherman, 1985 **NEHRP Commentary on the Guidelines for the Seismic Rehabilitation of Buildings** Eugene Zeller, 2000-06 This document from the National Earthquake Hazards Reduction Program NEHRP was prepared for the Building Seismic Safety Council BSSC with funding from the Federal Emergency Management Agency FEMA It provides commentary on the NEHRP Guidelines for the Seismic Rehabilitation of Buildings It contains systematic guidance enabling design professionals to formulate effective reliable rehabilitation approaches that will limit the expected earthquake damage to a specified range for a specified level of ground shaking This kind of guidance applicable to all types of existing buildings in all parts of the country has never existed before Illustrated **Catalog of FEMA Earthquake Resources** United States. Federal Emergency Management Agency, 2013

Guidelines for Design of Low-Rise Buildings Subjected to Lateral Forces Ajaya Kumar Gupta, Peter James Moss, 2020-11-25 *Guidelines for Design of Low Rise Buildings Subjected to Lateral Forces* is a concise guide that identifies performance issues concerns and research needs associated with low rise buildings The book begins with an introduction that discusses special problems with low rise buildings subjected to wind and earthquakes Chapter 2 examines probabilistic methods and their use in evaluating risks from natural hazards It also addresses the characteristics of wind and seismic forces and levels of risk implied by building codes Wind forces are covered in more detail in Chapter 3 with discussions of wind force concepts and wind structure interactions Chapter 4 is devoted to earthquake forces and traces the development of

building codes for earthquake resistant design Chapter 5 describes the main framing systems used to resist lateral forces and discusses the code requirements for drift control The designs and requirements for connections between building elements are addressed in Chapter 6 It includes examples along with several illustrations of suitable connections The performance of non structural elements during wind and earthquake forces is also examined in detail This book serves as an important reference for civil engineers construction engineers architects and anyone concerned with structural codes and standards It is an excellent guide that can be used to supplement design recommendations and provide a design basis where there are no current requirements

Assessing Earthquake Hazards and Reducing Risk in the Pacific Northwest Timothy J. Walsh, William J. Kockelman, George R. Priest, 1996 **Assessing Earthquake Hazards and Reducing Risk in the Pacific Northwest** Albert M. Rogers, 1996 An investigation of the earthquake potential in the Pacific Northwest and examination of the measures necessary to reduce seismic hazards FEMA Publications Catalog United States. Federal Emergency Management Agency, 2001 *Earthquake Hazard Mitigation and Earthquake Insurance* United States. Congress. House. Committee on Banking, Finance, and Urban Affairs. Subcommittee on Policy Research and Insurance, 1991

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

Proceedings of the 11th International Conference of Ar.Tec. (Scientific Society of Architectural Engineering) Rossella Corrao, Tiziana Campisi, Simona Colajanni, Manfredi Saeli, Calogero Vinci, 2024-10-26 This book gathers the proceedings of the 11th International Conference of Ar Tec Scientific Society of Architectural Engineering Colloqui AT e which was held in

Palermo Italy on June 12 15 2024 and brought together scholars in the fields of construction and conservation history building construction and performance building design and technologies Digital transition and design of 4 0 buildings digital twins for the management of historical building heritage building human environment relationships and mitigation of vulnerabilities for the preservation of the built environment are also explored The contributions demonstrate that architectural engineering enables the construction of sustainable resilient adaptive and high performance buildings and as such is instrumental in fighting against climate change

Reducing Earthquake Hazards in the Central U. S. (6 Reports Combined) DIANE Publishing Company,2000-07 Six reports prepared for the U S Geological Survey by the Dept of Urban and Regional Planning College of Fine and Applied Arts Univ of Illinois at Urbana Champaign The six reports are combined in this one report are entitled Local Earthquake Hazard Reduction Plans Education of Architects and Engineers Seismic Hazard Mapping State Seismic Safety Advisory Committees Historic Resources and Nonstructural Hazards

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Reducing The Risks Of Nonstructural Earthquake Damage A Practical Guide**

In some sort of inundated with screens and the cacophony of immediate conversation, the profound power and emotional resonance of verbal art frequently diminish into obscurity, eclipsed by the regular barrage of noise and distractions. However, set within the lyrical pages of **Reducing The Risks Of Nonstructural Earthquake Damage A Practical Guide**, a charming work of fictional elegance that pulses with raw emotions, lies an unique journey waiting to be embarked upon. Published by a virtuoso wordsmith, this exciting opus manuals readers on an emotional odyssey, gently revealing the latent potential and profound affect stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect their charming writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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