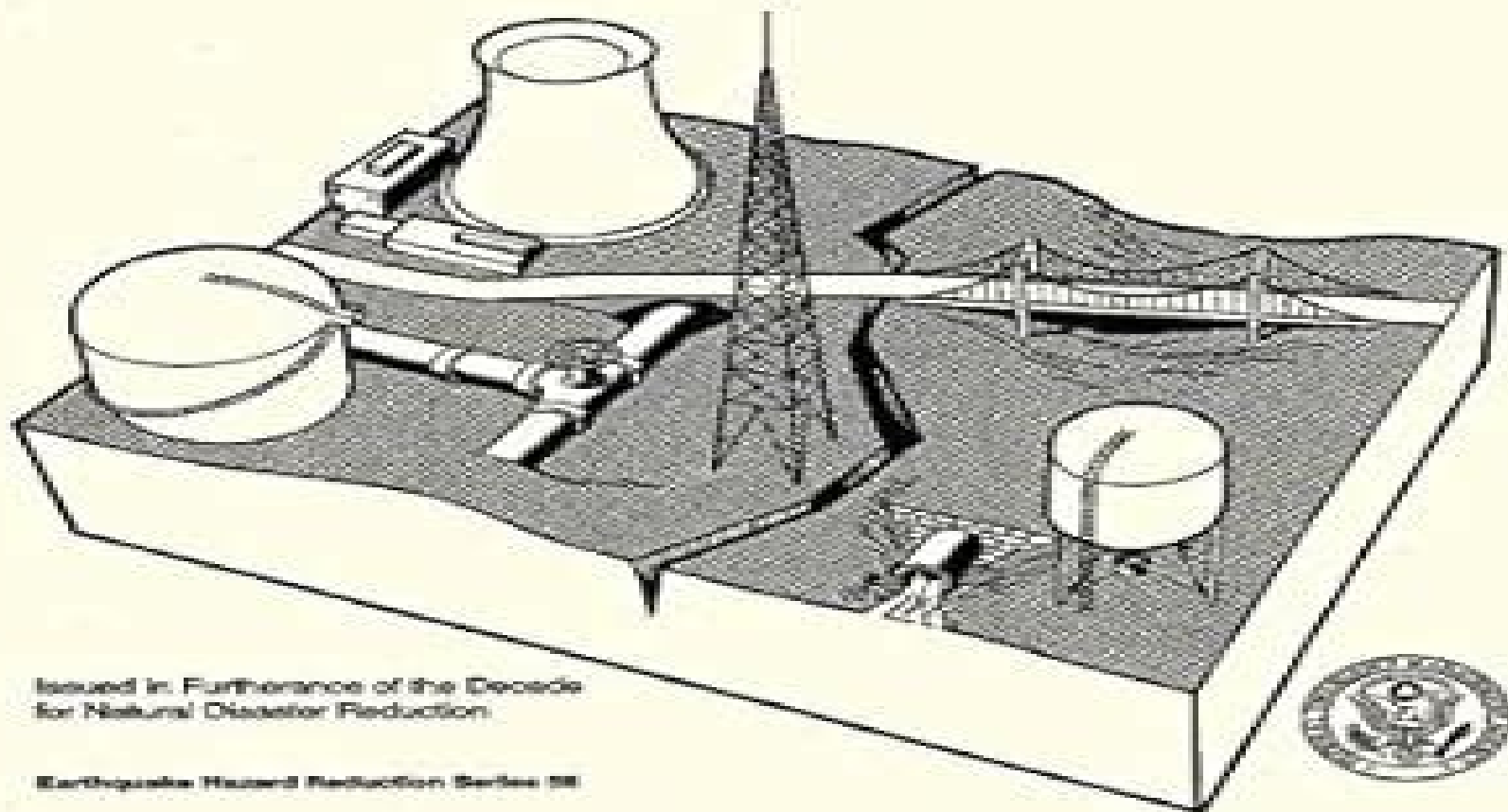
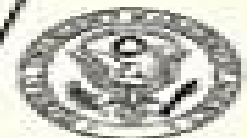


Seismic Vulnerability and Impact of Disruption of Lifelines in the Conterminous United States



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Earthquake Hazard Reduction Series 58



Seismic Vulnerability And Impact Of Disruption In The Conterminous United States

Thomas Griffiths



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Seismic Vulnerability and Impact of Disruption of Lifelines in the Conterminous United States Christopher Rojahn, Lloyd S. Cluff, 1991

Seismic Vulnerability and Impact of Disruption of Lifelines in the Conterminous United States Federal Emergency Management Agency, 2013-04-13

Lifeline is an earthquake engineering term denoting those systems necessary for human life and urban function without which large urban regions cannot exist. Lifelines basically convey food, water, fuel, energy, information, and other materials necessary for human existence from the production areas to the consuming urban areas. Prolonged disruption of lifelines such as the water supply or electric power for a city or urbanized region would inevitably lead to major economic losses, deteriorated public health, and eventually population migration. Earthquakes are probably the most likely natural disaster that would lead to major lifeline disruption. With the advent of more and more advanced technology, the United States has increasingly become dependent on the reliable provision of lifeline-related commodities such as electric power, fuel, and water. A natural question is: What is the potential for major disruption to these lifelines, especially at the regional level? The initiation of this study by the Federal Emergency Management Agency (FEMA) is based in part on a need to better understand the impact of disruption of lifelines from earthquakes and to assist in the identification and prioritization of hazard mitigation measures and policies. In addition, the report is intended to improve national awareness of the importance of protecting lifeline systems from earthquakes and of assuring lifeline reliability and continued serviceability. The specific contractual requirements of this project and report are: To assess the extent and distribution of existing U.S. lifelines and their associated seismic risk; and To identify the most critical lifelines and develop a prioritized series of steps for reduction of lifeline seismic vulnerability based on overall benefit. FEMA is also sponsoring a companion study to develop and demonstrate a model methodology for assessing the seismic vulnerability and impact of disruption of water transmission and distribution systems. In this initial study, lifelines of critical importance at the U.S. national level have been analyzed to estimate overall seismic vulnerability and to identify those lifelines having the greatest economic impact given large credible U.S. earthquakes. The lifelines examined include electric systems, water, gas, and oil pipelines, highways, and bridges, airports, railroads, ports, and emergency service facilities. The vulnerability estimates and impacts developed are presented in terms of estimated direct damage losses and indirect economic losses. These losses are considered to represent a first approximation because of the assumptions and methodology utilized because several lifelines are not included and because in some cases the available lifeline inventory data lack critical capacity information.

Wind and Seismic Effects United States-Japan Cooperative Program in Natural Resources. Panel on Wind and Seismic Effects. Joint Meeting, 1992

Catalog of FEMA Earthquake Resources United States. Federal Emergency Management Agency, 2013

U.S. Geological Survey Professional Paper ,1984

Issues in Urban Earthquake Risk B.E.

Tucker, Mustafa Özder Erdik, Christina N. Hwang, 2013-03-09 Urban seismic risk is growing worldwide and is increasingly a problem of developing countries In 1950 one in four of the people living in the world's fifty largest cities was earthquake threatened while in the year 2000 about one in two will be Further of those people living in earthquake threatened cities in 1950 about two in three were located in developing countries while in the year 2000 about nine in ten will be Unless urban seismic safety is improved particularly in developing countries future earthquakes will have ever more disastrous social and economic consequences In July 1992 an international meeting was organized with the purpose of examining one means of improving worldwide urban safety Entitled Uses of Earthquake Damage Scenarios for Cities of the 21st Century this meeting was held in conjunction with the Tenth World Conference of Earthquake Engineering in Madrid Spain An earthquake damage scenario EDS is a description of the consequences to an urban area of a large but expectable earthquake on the critical facilities of that area In Californian and Japanese cities EDSes have been used for several decades mainly for the needs of emergency response officials The Madrid meeting examined uses of this technique for other purposes and in other less developed countries As a result of this meeting it appeared that EDSes had significant potential to improve urban seismic safety worldwide

Disciplines, Disasters, and Emergency Management David A. McEntire, 2007 Disasters such as the 9/11 terrorist attacks the Indian Ocean Tsunami and Hurricane Katrina illustrate the salience and complexity of disasters Both scholars and practitioners therefore agree that we must take a more proactive and holistic approach to emergency management which should logically be derived from a sound understanding of the academic literature and the most pressing concerns facing professionals in the field today *Disciplines Disasters and Emergency Management* reviews what is known about catastrophic events from the standpoint of various academic areas of study The introductory chapter by the editor David A McEntire discusses the importance of and difficulties associated with multi and interdisciplinary research on disasters and emergency management Well known scholars such as Drabek Gibbs Pine Scanlon Sylves Waugh Zakour and others then join efforts with budding students who have recently been exposed to the disaster management profession Their review of our current level of knowledge represents 23 disciplines including geography engineering sociology gerontology public administration international relations law environmental management criminal justice and information science etc The concluding chapter summarizes the contributions of various disciplines identifies potential research opportunities and describes ways to address future disaster problems Besides comparing the similarities and differences among the findings from diverse fields of study *Disciplines Disasters and Emergency Management* suggests that scholars may increase their comprehension of disasters by focusing attention on the unique concept of vulnerability Recommendations for disaster reduction also make this a useful book for professionals in emergency management Whether you are a seasoned expert in disaster research or a novice in emergency management this book will help you acquire cutting edge knowledge about disasters and emergency management

The Identification of Critical Road Infrastructures - The Case of

Baden-Wuerttemberg Carola Schulz,2014-09-03 Today s globalised society highly depends on reliable infrastructure systems like transportation and telecommunication This doctoral dissertation presents a methodology to identify critical road infrastructures Critical road sections are those whose failure would entail large costs to society The dissertation also accounts for aspects like multiple road disruptions and probabilities of failure Baden Wuerttemberg in Germany serves as a case study area *Defining and Measuring Economic Resilience from a Societal, Environmental and Security Perspective*

Adam Rose,2017-04-03 This volume presents an economic framework for the analysis of resilience in relation to societal environmental and personal security perspectives It offers a rigorous definition of economic resilience and an operational metric and it shows how they can be applied to measuring and applying the concept to private and public decision making Major dimensions of resilience and their implications for human development are explored Resilience is emphasized as a coping mechanism for dealing with short term crises such as natural disasters and acts of terrorism As well the author shows how lessons learned in the short run out of necessity and through the application of human ingenuity can be incorporated into long run sustainability practices In part this opportunity stems from viewing resilience as a process one that enhances individual and societal competencies The book links economic resilience to several other disciplines and examines the relationship between resilience and various other key concepts such as vulnerability adaptation and sustainability It scrutinizes the measurement of economic resilience in terms of temporal spatial and scale dimensions It examines the time path of resilience and relates it to the recovery process This work also looks closely at progress on the formulation of resilience indices and stresses the importance of actionable variables It presents a risk management framework including aspects of cost effectiveness and cost benefit analysis Additionally it explores the role of resilience in relation to the co benefits of disaster risk management *Earthquake Hazards Reduction Series* ,1994 *Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings* , **Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings** ,1999 *Earthquake Engineering Handbook*

Charles Scawthorn,Wai-Fah Chen,2002-09-27 Earthquakes are nearly unique among natural phenomena they affect virtually everything within a region from massive buildings and bridges down to the furnishings within a home Successful earthquake engineering therefore requires a broad background in subjects ranging from the geologic causes and effects of earthquakes to understanding the impact of these effects on foundations buildings structures the infrastructure and even their social and economic impact The Earthquake Engineering Handbook is a comprehensive resource that covers the spectrum of topics relevant to designing for and mitigating earthquakes In it international experts present engineering practices research and developments in North America Europe and the Pacific Rim countries The emphasis is on professional applications with discussion ranging from basic dynamics and geoscience to new technologies intended to avoid rather than resist the forces of earthquakes Covering both traditional and innovative practices the Earthquake Engineering Handbook is the first professional reference that brings together all of earthquake engineering s

many facets Formulas tables and illustrations give immediate answers to questions arising in practice and summaries of the essential elements of each topic paint a global picture from which readers can develop understanding and the ability to think beyond the results presented *FEMA Publications Catalog* United States. Federal Emergency Management Agency,2000

U.S.-Italy Collaborative Recommendations for Improving the Seismic Safety of Hospitals in Italy ,2000 **Seismic Vulnerability and Impact of Disruption of Lifelines in the Conterminous U. S.** Charles Scawthorn,Mahmoud Khater,Christopher Rojahn,1996-09-01 Develops a better understanding of the impact of the disruption of lifelines from earthquakes Identifies and prioritizes hazard mitigation measures and policies Lifelines considered include electric water transportation and gas and fuel supply systems and emergency service facilities Contents national lifeline inventory development of lifeline vulnerability functions seismic hazard estimate of direct damage estimates of indirect economic losses combined economic losses deaths and injuries hazard mitigation measures and benefits Tables Elements of Infrastructure and Seismic Hazard in the Central United States ,1994 **U.S. Geological Survey Open-file Report** ,1986

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