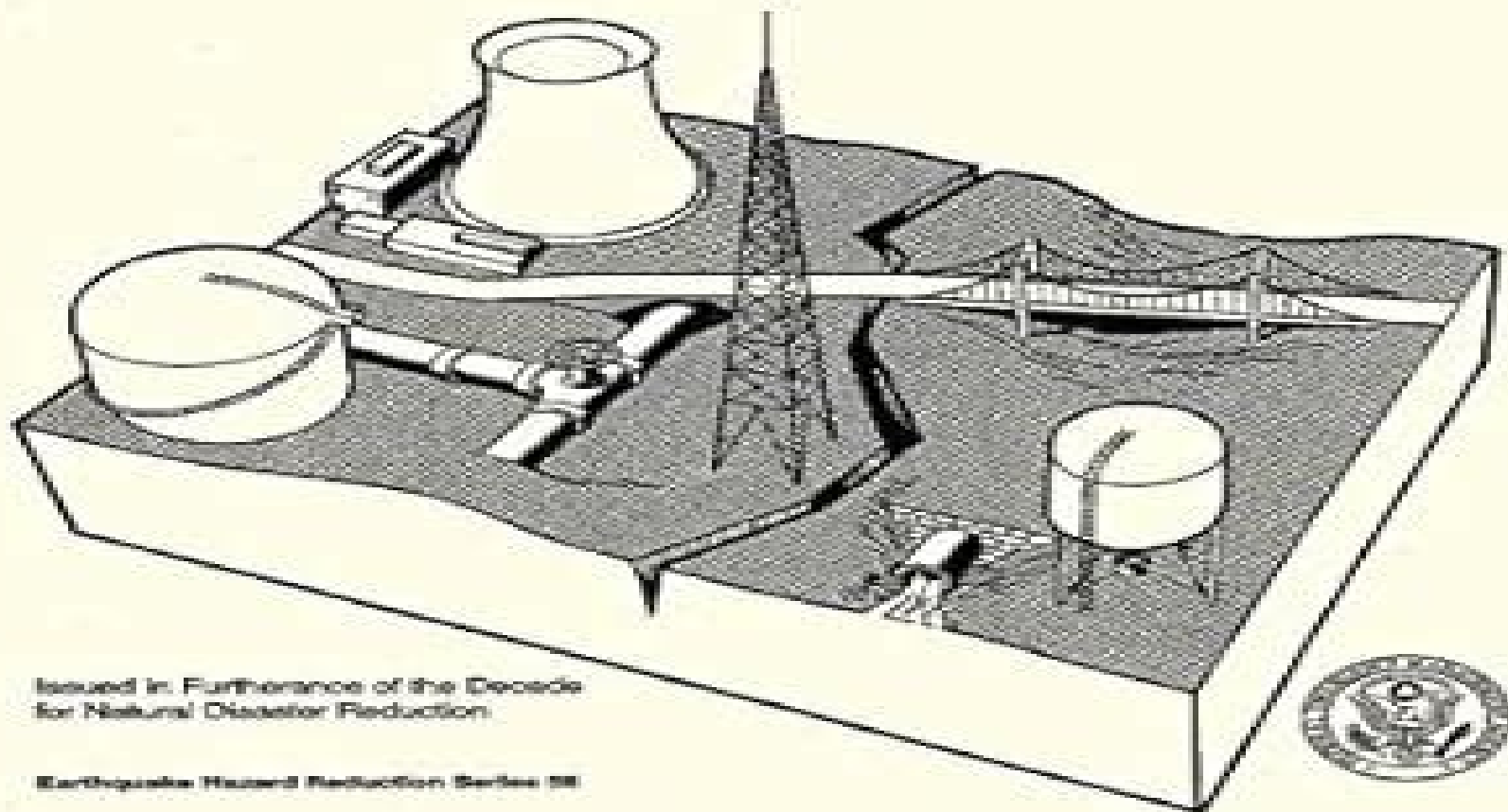
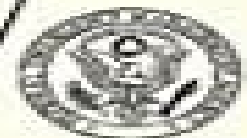


Seismic Vulnerability and Impact of Disruption of Lifelines in the Conterminous United States



Issued in Furtherance of the Decade
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Earthquake Hazard Reduction Series 58



Seismic Vulnerability And Impact Of Disruption In The Conterminous United States

AW Rasmussen

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Seismic Vulnerability and Impact of Disruption of Lifelines in the Conterminous United States ,1991

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

Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings , **Evaluation of Earthquake**

Damaged Concrete and Masonry Wall Buildings ,1999

U.S. Geological Survey Professional Paper ,1984

Guidelines for the Seismic Evaluation and Upgrade of Water Transmission Facilities John M. Eidinger, Ernesto A. Avila, 1999-01-01 Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph provides guidelines for the seismic evaluation and upgrade of water transmission facilities including aqueducts tunnels canals buried pipelines elevated pipelines and their appurtenances Topics covered include the performance of these facilities in past earthquakes geotechnical issues performance criteria risk analysis analysis methods and a series of case studies The guidelines can also be used for the design of new water transmission facilities The case studies cover seismic designs and retrofits for the Mokelumne Aqueduct the Contra Costa Canal the Borel Canal buried pipes at fault crossings and auxiliary water fire fighting systems The case studies also examine post earthquake operations financial issues and the benefits of seismic retrofits

Earthquake Hazards Reduction Series ,1994

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Table of Contents Seismic Vulnerability And Impact Of Disruption In The Conterminous United States

1. Understanding the eBook Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - The Rise of Digital Reading Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Advantages of eBooks Over Traditional Books
2. Identifying Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - User-Friendly Interface
4. Exploring eBook Recommendations from Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Personalized Recommendations
 - Seismic Vulnerability And Impact Of Disruption In The Conterminous United States User Reviews and Ratings
 - Seismic Vulnerability And Impact Of Disruption In The Conterminous United States and Bestseller Lists
5. Accessing Seismic Vulnerability And Impact Of Disruption In The Conterminous United States Free and Paid eBooks
 - Seismic Vulnerability And Impact Of Disruption In The Conterminous United States Public Domain eBooks
 - Seismic Vulnerability And Impact Of Disruption In The Conterminous United States eBook Subscription Services

- Seismic Vulnerability And Impact Of Disruption In The Conterminous United States Budget-Friendly Options
- 6. Navigating Seismic Vulnerability And Impact Of Disruption In The Conterminous United States eBook Formats
 - ePub, PDF, MOBI, and More
 - Seismic Vulnerability And Impact Of Disruption In The Conterminous United States Compatibility with Devices
 - Seismic Vulnerability And Impact Of Disruption In The Conterminous United States Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Highlighting and Note-Taking Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Interactive Elements Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
- 8. Staying Engaged with Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
- 9. Balancing eBooks and Physical Books Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Setting Reading Goals Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Seismic Vulnerability And Impact Of Disruption In The Conterminous United States
 - Fact-Checking eBook Content of Seismic Vulnerability And Impact Of Disruption In The Conterminous United States

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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