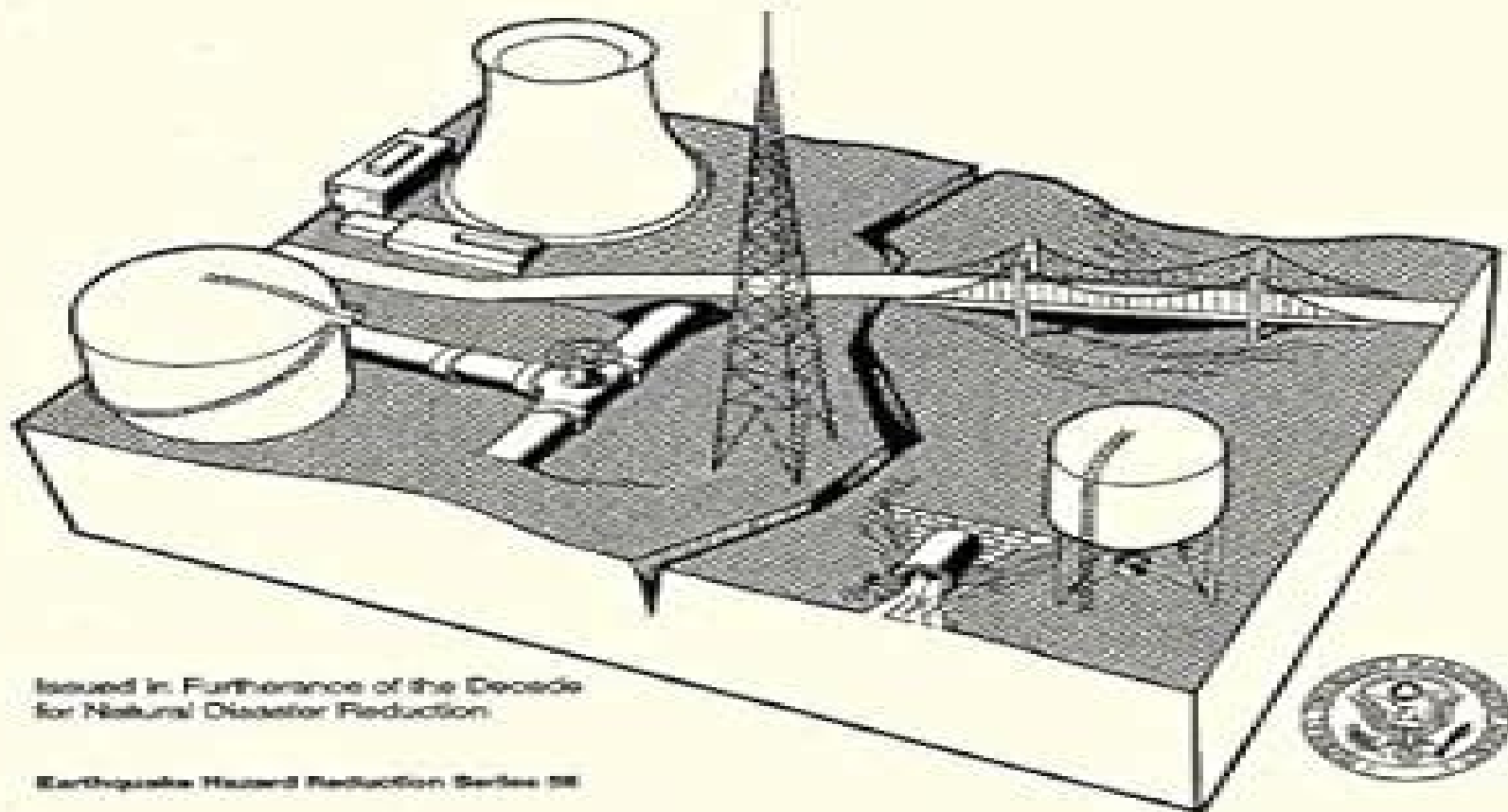


Seismic Vulnerability and Impact of Disruption of Lifelines in the Conterminous United States



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Seismic Vulnerability And Impact Of Disruption In The Conterminous United States

John M. Eidinger, Ernesto A. Avila



Seismic Vulnerability And Impact Of Disruption In The Conterminous United States:

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

Reviewing **Seismic Vulnerability And Impact Of Disruption In The Conterminous United States**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Seismic Vulnerability And Impact Of Disruption In The Conterminous United States**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Seismic Vulnerability And Impact Of Disruption In The Conterminous United States Introduction

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