



Recent Lifeline Seismic Risk Studies

William M. Elliott, Peter W. McDonough



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Recent Lifeline Seismic Risk Studies Anne Setian Kiremidjian, 1990 Presents a collection of papers presented at the 1990 Annual Civil Engineering Convention and Exposition in California This work summarizes seismic loss and reliability analysis methods for complex spatially distributed lifeline systems It emphasises on methods for direct loss estimation rather than on down time and other indirect losses

Recent Lifeline Seismic Risk Studies American Society of Civil Engineers Technical Council on Lifeline Earthquake Engineering, 1990

Abatement of Seismic Hazards to Lifelines: Papers on gas and liquid fuel lifelines and special workshop presentations, 1987 *Wind and Seismic Effects* United

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

Abatement of Seismic Hazards to Lifelines: Proceedings of a Workshop on Development of an Action Plan, 1987

Abatement of Seismic Hazards to Lifelines: Papers on transportation lifelines and special workshop presentations, 1987 Lifeline Performance of El Salvador Earthquakes of January 13 and February 13, 2001 Le Val

Lund, Carl Sepponen, 2003-01-01 Prepared by the Council on Disaster Reduction and Earthquake Investigation Committee of Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph details the effects of two earthquakes that occurred in El Salvador on January 13 and February 13 2001 The first earthquake had a magnitude of 7.6 and the second had a magnitude of 6.6 Catastrophic damage was estimated at 1.6 billion Significant lifeline disruption was the result of landslides which closed the major Pan American Highway and the highway to the international airport and disrupted power communication street lighting roads and water systems

Practical Lessons from the Loma Prieta Earthquake

National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Geotechnical Board, 1994-02-01 The Loma Prieta earthquake struck the San Francisco area on October 17 1989 causing 63 deaths and 10 billion worth of damage This book reviews existing research on the Loma Prieta quake and draws from it practical lessons that could be applied to other earthquake prone areas of the country The volume contains seven keynote papers presented at a symposium on the earthquake and includes an overview written by the committee offering recommendations to improve seismic safety and earthquake awareness in parts of the country susceptible to earthquakes

Abatement of Seismic Hazards to Lifelines: Papers on water and sewer lifelines and special workshop presentations, 1987

Abatement of Seismic Hazards to Lifelines, 1987 **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 **Optimizing Post-earthquake Lifeline System Reliability** William M. Elliott, Peter W. McDonough, 1999 TCLEE Monograph 16 presents more than 100 papers from the Fifth U S Conference on Lifeline Earthquake Engineering held in Seattle Washington August 12 14 1999 **Acceptable Risk Processes** Craig Taylor, Erik VanMarcke, 2002-01-01 Prepared by the Council on Disaster Reduction and the Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph provides engineers and decision makers with tools to help them better understand acceptable risk processes and then develop risk reduction strategies and implement mitigation actions to reduce lifeline losses from future earthquakes The disruption of lifelines from natural hazards has a direct impact on the world s regional economies and the health of their citizens Therefore it is important to understand what natural hazards are how they can affect infrastructure lifelines and what can be done to minimize their impact These three elements in turn influence decisions that involve acceptable risk processes The topic of acceptable risk provides one way of bringing integrated systems risk evaluations for disaster explicitly into a decision making context Topics include technical issues risk criteria issues and communication administration and regulation issues *Earthquake Hazard Mitigation and Earthquake Insurance* United States. Congress. House. Committee on Banking, Finance, and Urban Affairs. Subcommittee on Policy Research and Insurance, 1991 **Earthquake Hazards Reduction Series** , 1994 **Abatement of Seismic Hazards to Lifelines: Papers on political, economics, social, legal, and regulatory issues and general workshop presentations** , 1987 **Assessment of Regional Earthquake Hazards and Risk Along the Wasatch Front, Utah** Paula Gori, Walter W. Hays, 2000 *Wind and Seismic Effects* United States-Japan Cooperative Program in Natural Resources. Panel on Wind and Seismic Effects, 1988 **Biennial Report to Congress National Earthquake Hazards Reduction Program (U.S.)**, 1983 **Abatement of Seismic Hazards to Lifelines: Papers on power lifelines an special workshop presentations** , 1987

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