



# ***Basic Aspects of Seismic Design***

# Seismic Design And Construction Of Complex Civil Engineering Systems

**Le Val Lund, Carl Sepponen**



## **Seismic Design And Construction Of Complex Civil Engineering Systems:**

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**Seismic design and construction of complex civil engineering systems**, 1988 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 Resistant Construction of Gas and Liquid Fuel Pipeline Systems Serving, Or Regulated by the Federal Government Felix Y. Yokel, Robert G. Mathey, 1992 Earthquake Hazards Reduction Series, 1994 **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 Nisqually, Washington, Earthquake of February 2001 Peter W. McDonough, 2002-01-01 Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph details the effects of the Nisqually Washington earthquake of February 28 2001 Despite the magnitude of this 6.8 earthquake only moderate damage was reported on older structures and minimal damage was reported on newer engineered buildings Although catastrophic damage did not occur investigators did find some significant damage to the lifeline infrastructure particularly roads bridges and the Sea Tac airport control tower Topics include geoscience and geotechnical aspects highway systems power systems water supply wastewater railways gas and liquid fuels communications airports marine facilities fire department response and hazardous materials **Izmit (Kocaeli), Turkey, Earthquake of August 17, 1999 Including Duzce Earthquake of November 12, 1999** Alex K. Tang, 2000-01-01 Prepared by the Earthquake Investigation Committee of the Technical Council of Lifeline Earthquake Engineering of ASCE On August 17 1999 the Izmit Kocaeli earthquake tore

through Kocaeli Turkey resulting in more than 15 000 deaths and 27 000 injuries 200 000 people were left homeless The electric power system nearly destroyed sustained more than US 70 million in damage Another earthquake on November 12 to the east of Izmit at Duzce added to the lifeline systems damage impacting the communications system water and wastewater system ports railway road and bridges This TCLEE Monograph provides information for practitioners to improve the performance of the lifeline systems Topics include seismology geology and geotechnical issues electric power airports telecommunications water and wastewater transportation highways and bridges liquid fuel facilities railway ports hospitals social impacts and emergency response and recovery U.S. Geological Survey Open-file Report ,1992 **Zemmouri, Algeria, MW 6.8 Earthquake of May 21, 2003** Curtis L. Edwards,2004-01-01 Prepared by the Earthquake Investigations Committee of the Technical Council of Lifeline Earthquake Engineering ASCE This TCLEE Monograph summarizes the damage done to various lifelines from the 6.8 Mw earthquake that occurred in the coastal waters off the Boumerdes Department east of Algiers Algeria on May 21 2003 An estimated 2 266 people were killed 10 260 injured and more than 200 000 left homeless Many of the three to five story reinforced concrete apartment buildings less than three years old were destroyed by either total or partial collapse Topics include geosciences and geotechnical engineering general building damage potable water systems power systems the highway system ports and airports railroads communication systems oil and liquid fuels hospitals and emergency response Readers will benefit from the lessons learned sections which analyze other lifeline systems and compare expected earthquake performance thus helping to minimize damage save money and reduce recovery time **San Simeon Earthquake of December 22, 2003 and Denali, Alaska, Earthquake of November 3, 2002** Mark Yashinsky,2004-01-01 Prepared by the Earthquake Investigations Committee of the Technical Council of Lifeline Earthquake Engineering ASCE This TCLEE Monograph summarizes the damage done to various lifelines from the 6.8 Mw earthquake that occurred in the coastal waters off the Boumerdes Department east of Algiers Algeria on May 21 2003 An estimated 2 266 people were killed 10 260 injured and more than 200 000 left homeless Many of the three to five story reinforced concrete apartment buildings less than three years old were destroyed by either total or partial collapse Topics include geosciences and geotechnical engineering general building damage potable water systems power systems the highway system ports and airports railroads communication systems oil and liquid fuels hospitals and emergency response Readers will benefit from the lessons learned sections which analyze other lifeline systems and compare expected earthquake performance thus helping to minimize damage save money and reduce recovery time 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.

**Overcoming Barriers** Craig Taylor, Elliott Mittler, Le Val Lund, 1998-01-01. Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE. This TCLEE Monograph studies seven large lifeline organizations that have undertaken significant seismic improvement programs. In spite of often cited barriers to natural hazards risk reduction, these organizations demonstrate a variety of ways to start and sustain risk reduction programs. In these economically and politically robust organizations, top level managers and high level inside technical seismic advocates learned from the damage done by past earthquakes to their systems or similar systems and from research and educational programs. Then each group developed an overall view of its system's earthquake vulnerabilities and devised adaptable incremental seismic implementation programs.

**Gujarat (Kutch), India, M7.7 Earthquake of January 26, 2001, and Napa M5.2 Earthquake of September 3, 2000** John M. Eidinger, 2001-01-01. Prepared by the Earthquake Investigation Committee of the Technical Council on Lifeline Earthquake Engineering of ASCE. This TCLEE Monograph describes the performance of lifelines in two earthquakes: the Gujarat earthquake of January 26, 2001 and the Napa earthquake of September 3, 2000. The Gujarat earthquake severely struck the Kutch District of the Gujarat State, India, and resulted in about 17,000 fatalities, 150,000 injuries, and left more than 500,000 homeless. The most heavily damaged lifelines were water and electric power. Other lifelines were substantially affected, including communications, wastewater, ports, railways, highways, roads, and bridges. The Napa Earthquake was a moderate sized earthquake in California. Recorded peak ground accelerations were as high as 0.49g with a recorded peak ground velocity of 15 inches per second. This report presents the findings for the following lifelines: water, telephone, highways, railroads, ports, hospitals, airports, fire department, response, radio, communications, highway, bridges, electric, and natural gas.

**Atico, Peru, Mw 8.4 Earthquake of June 23, 2001** Curtis L. Edwards, 2003-01-01. Prepared by the Post Earthquake Investigation Committee of the Technical Council on Lifeline Earthquake Engineering of ASCE. In the late afternoon of June 23, 2001, a colossal earthquake with a magnitude of 8.4 MW took place in the coastal waters off the District of Arequipa and the town of Atico, Peru. The magnitude of the event made it the largest in the world in the previous 25 years. This earthquake caused nearly 2,000 deaths and 3,000 injuries. 26,000 homes were destroyed, 34,000 homes were damaged, and 190,000 people were left homeless. This report highlights results of a reconnaissance to investigate the damage and impacts to the various lifelines: water, railroads, highway systems, power systems, airports, and communications. The main geotechnical feature of this event was shaking induced landslides, rock falls, and subsidence associated with poorly compacted fills, steep cut slopes, and differential settlement at cut

fill interfaces     Fire Following Earthquake Charles Scawthorn, John M. Eidinger, Anshel Schiff, 2005-01-01 Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph covers the entire range of fire following earthquake FFE issues from historical fires to 20th century fires in Kobe San Francisco Oakland Berkeley and Northridge FFE has the potential of causing catastrophic losses in the United States Japan Canada New Zealand and other seismically active countries with wood houses This comprehensive book on FFE and urban conflagrations provides state of the practice insight on unique issues such as large diameter flex hose applications by fire and water departments Topics include History of past fires Computer modeling of fire spread in the post earthquake urban environment Concurrent damage and fire impacts for water power gas communication and transportation systems Examples of reliable water systems built or designed in San Francisco Vancouver Berkeley and Kyoto Use of large diameter 5 in and ultralarge diameter 12 in flex hose for fire fighting and water restoration and Cost effectiveness of various FFE mitigation strategies with a detailed benefit cost model Water utility engineers fire fighting professionals and emergency response planners will benefit from reading this book     **National Earthquake Hazards Reduction Program, Summaries of Technical Reports Volume XXXIII** ,1992  
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