

# GUIDE TO **POST-EARTHQUAKE INVESTIGATION OF LIFELINES**

Edited by Anshel J. Schiff



Technical Council on Lifeline Earthquake Engineering  
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# Guide To Post Earthquake Investigation Of Lifelines

**John M. Eidinger, Ernesto A. Avila**



## **Guide To Post Earthquake Investigation Of Lifelines:**

**Guide to Post-earthquake Investigation of Lifelines** American Society of Civil Engineers. Earthquake Investigations Committee, 1991 This training guide seeks to eliminate deficiencies in the process of post earthquake investigation of lifelines and attempts to gather material to meet certain objectives **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 **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 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 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 *Seismic Guidelines for Ports* Stuart D. Werner, 1998-01-01 Seismic Guidelines for Ports was prepared by the Ports Committee of the Technical Council on Lifeline Earthquake Engineering of the American Society of Civil Engineers a committee of experienced professionals for port authorities government consulting engineering firms and the academic community This volume includes lessons of experience from past earthquakes a summary of current state of knowledge and practice of risk reduction planning through design analysis and material components and guidelines for response and recovery at ports

**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 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 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 *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. **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. **Geological Survey Professional Paper** Geological Survey (U.S.), 1998. **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. **U.S. Geological Survey Professional Paper**, 1998. *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 included 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

Resilience Engineering for Power and Communications Systems Alexis Kwasinski, Andres Kwasinski, Vaidyanathan Krishnamurthy, 2024-01-18 Power and communications networks are uniquely important in times of disaster Drawing on twenty years of first hand experience in critical infrastructure disaster forensics this book will provide you with an unrivalled understanding of how and why power and communication networks fail Discover key concepts in network theory reliability and resilience and see how they apply to critical infrastructure modelling Explore real world case studies of power grid and information and communication network ICN performance and recovery during earthquakes wildfires tsunamis and other natural disasters as well as man made disasters Understand the fundamentals of disaster forensics learn how to apply these principles to your own field investigations and identify practical relevant strategies technologies and tools for improving power and ICN resilience With over 350 disaster site photographs of real world power and ICN equipment this is the ideal introduction to resilience engineering for professional engineers and academic researchers working in power and ICN system resilience

**Technical Report**, 2008 *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 Bumerdes 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

*Chi-Chi, Taiwan, Earthquake of September 21, 1999* Anshel J. Schiff, Alex K. Tang, 2000-01-01 Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE On September 21 1999 central Taiwan was struck by a devastating earthquake resulting in more than 2 400 deaths thousands of collapsed and severely damaged

buildings and economic losses of more than US 20 billion This TCLEE Monograph describes the earthquake performance emergency response and recovery for the following lifeline systems electric power water wastewater communications roads and bridges railroads ports gas and liquid fuels In addition the impact of lifeline disruption on the emergency response capabilities of rescue activities is discussed For each lifeline damage emergency response methods used to cope with damage and disruption and the restoration and recovery processes are described Each section summarizes the lessons learned and makes recommendations to improve system earthquake response

**Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,1997 Vols 29 30 include papers of the International Engineering Congress Chicago 1893 v 54 includes papers of the International Engineering Congress St Louis 1904

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## **Table of Contents Guide To Post Earthquake Investigation Of Lifelines**

1. Understanding the eBook Guide To Post Earthquake Investigation Of Lifelines
  - The Rise of Digital Reading Guide To Post Earthquake Investigation Of Lifelines
  - Advantages of eBooks Over Traditional Books
2. Identifying Guide To Post Earthquake Investigation Of Lifelines
  - 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 Guide To Post Earthquake Investigation Of Lifelines
  - User-Friendly Interface
4. Exploring eBook Recommendations from Guide To Post Earthquake Investigation Of Lifelines
  - Personalized Recommendations
  - Guide To Post Earthquake Investigation Of Lifelines User Reviews and Ratings
  - Guide To Post Earthquake Investigation Of Lifelines and Bestseller Lists
5. Accessing Guide To Post Earthquake Investigation Of Lifelines Free and Paid eBooks
  - Guide To Post Earthquake Investigation Of Lifelines Public Domain eBooks
  - Guide To Post Earthquake Investigation Of Lifelines eBook Subscription Services
  - Guide To Post Earthquake Investigation Of Lifelines Budget-Friendly Options



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