



DVD-ROM Proceedings of the 9th U.S. National & 10th Canadian Conference on Earthquake Engineering

This Proceedings DVD contains more than 750 state-of-the-art papers presented at the July 25-29, 2010 conference in Toronto, co-convened by EERI and the Canadian Association for Earthquake Engineering. With the theme "Reaching Beyond Borders," the conference included the 4th International Tsunami Symposium. DVD contents are text searchable and indexed by author, title, topic, session title, and paper ID.

Topic areas:

Ground Motion, including:

- Seismicity
- Seismic Hazard Assessment
- Seismic Risk
- Multi-Hazard Effects & Considerations

Soils & Foundations, including:

- Soil Characterization & Dynamic Soil Properties
- Building Structures & Foundations, including Passive Isolation
- Soil-Structure Interaction
- Soil Stability

Buildings, Structural & Nonstructural Systems:

- Reinforced Concrete Buildings
- Masonry Buildings
- Steel Buildings
- Wood Buildings
- Design Criteria: Seismic Design Codes, including Performance-Based Design
- Practice: Design & Construction
- Nonstructural Components
- Repair and Retrofit of Structures & Foundations
- Experimental Research
- Numerical Research

Bridge Structures:

- Bridge Design Criteria: Seismic Design Codes including

Performance-Based Design

- Practice: Design & Construction of Bridges
- Bridge Structures & Foundations including Passive Isolation

Lifelines, including:

- Pipelines
- Dams, levees, ports
- Urban & regional networks & systems

Seismic Isolation, Energy Dissipation & Active Control Systems

Post-Earthquake Response, including:

- Damage Assessment & Recovery
- Tools for Reconnaissance

Socio-Economic Issues, including:

- Education
- Public Policy
- Urban & Regional Design
- Seismic Awareness
- Preparedness
- Risk Analysis & Risk Management
- Loss Estimation & Modeling
- Community Resilience

Lessons Learned From Recent Earthquakes

Experimental Methods, Information Technology, & Collaborative Research Tools, including:

- New Test Methods
- Hybrid Simulation
- Data Archiving & Curation

Earthquake & Multiple Hazard Design

Tsunami Symposium:

- Tsunami Instrumentation & Warning Systems
- Tsunami Risk Analysis
- Tsunami Engineering
- Experimental Modeling of Tsunami
- Numerical Modeling of Tsunami
- Tsunami Preparedness



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