



STRUCTURAL ENGINEERING

MASc Theses

Current as of May 2007

YEAR	THESIS TITLE	AUTHOR	SUPERVISOR(S)
2007	Plastic Hinge Length in High-Rise Concrete Shear Walls	Bohl, Alfredo Guillermo	P. Adebar
2007	A Case Study in the Conceptual Design of an Anodized Aluminum Cladding System for a Steel Taurus Structure	Fitch, Devan C.	S. Steimer
2007	Performance of Shear Stud Clusters for Precast Concrete Bridge Deck Panels	La Rose, Kent E.	K. Elwood
2007	Assessment of Confinement models for reinforced concrete columns subjected to seismic loading	Riederer, Kevin	K. Elwood
2007	Design of Structural Geometries for Large Telescope Enclosures	Wong, Vanessa (Kar Yan)	S. Steimer
2006	Application of Finite Element Reliability Analysis and Decision Tree Analysis in Seismic Retrofit Strategy Selection	Matin, I.	T. Haukaas
2006	Out-of-Plane Seismic Performance of Unreinforced Clay Brick Masonry Walls	Meisl, C. S.	K. Elwood
2006	The Structural In-Plane Seismic Performance of Tall Wood-Frame Walls	Peterson, A. J.	H. Prion
2005	Simulation of Progressive Damage Development in Braided Composite Tubes under Axial Compression	C.J. McGregor	R. Vaziri
2005	A Contribution to a Practical Approach to Corrosion Protection and Coating Maintenance of Steel Bridge Structures	Chan, P.	S. Stiemer
2005	A Contribution to Risk Evaluation of Fabricator/Erector during Production and Installation of Steel Structures	Jalayer, M.	S. Stiemer/D.J. Halliday
2005	Reliability-based Structural Design Optimization for Nonlinear Structures in Open Sees	Liang, H.	T. Haukaas
2005	A Contribution to Innovative Methods for Enhancing the Economy of Steel Structures Engineering	Ramadhas, V.	S. Stiemer/T. Haukaas
2005	Finite Element Modeling and Parametric Studies of a Chevron Braced Frame with a Vertical Slotted Connection Detail	Seeton, A. C.	C. Ventura
2005	Analysis Method for the Design of Reinforced Concrete Bridge Barrier and Cantilever Deck under Railing Loads as specified in CAN/CSA-S6-00 (Canadian Highway Bridge Design Code)	Wong, J. T. W.	S. Stiemer
2005	Studies on Seismic Behavior of Concrete Gravity Dams	Yoneda, W. J.	C. Ventura
2005	Life Cycle Consideration for Steel Bridges with Consideration of Usage, Durability and Maintenance	Yuan, J.	C. Ventura
2005	Probabilistic Drift Capacity Models for Reinforced Concrete Columns	Zhu, L.	K. Elwood/T. Haukaas
2004	Displacement-based Design of Concrete Tilt-up Wall	Guan, Z.	P. Adebar
2004	The Structural Performance of Tall Wood-frame Walls under Axial and Transversal Loads	Leonard, D.	H. Prion

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2004	Large Adaptive Reflector: Actuator Analysis	Preidt, C. D.	S. Stiemer
2004	Conceptual Design and Comparative Study of Very Large Telescope Enclosures	Sun, M.	S. Stiemer
2004	Progressive Damage Modeling of Composite Materials under Compressive Loads	Zobeiry, N.	R. Vaziri/A. Poursartip
2003	An Experimental and Analytical Study of Chevron Braced Frames with Vertical Slotted Connections	Bubela, R. K.	H. Prion/C. Ventura
2003	A Decision Model for the Erection of Cable-Stayed Bridges	Chan, C. W. L.	R. Sexsmith
2003	The Development of the Structural Concepts Learning Module (SCLM)	Chow, M. L. W.	S. Stiemer
2003	Moment Resistant Connections made with Timber Rivets in Wood Product Substrates	Hampson, J. A.	H. Prion
2003	Conceptual Design of Reflector Structure for the Large Adaptive Reflector	Loewen, N.	S. Stiemer
2003	Model Updating of a 48-Storey Building in Vancouver using Ambient Vibration Measurements	Lord, J-F.	C. Ventura
2003	Reliability of Temporary Structures	Malik, T.	R. Sexsmith
2002	Effect of processing on the behaviour of laminated composite structures: a numerical and probabilistic approach	Arafath, A. R. A.	R. Vaziri
2002	A Comparison of Two Hysteretic Models in Predicting the Response of a Connector under Cyclic Loading	Lo, Y. P. Y	R. Foschi
2002	Evaluation of Direct Stucco-Woodframe Connectors for Enhanced Seismic Performance	Mastschuch, T.	P. Adebar
2002	A Numerical and Experimental Investigation of the Impact Behaviour of Hybrid and Multi-ply Fabric Structures	Novotny, W. R.	R. Vaziri
2002	A Probabilistic Approach for Seismic Risk Assessment with Uncertain Input Parameters	Sanaie-Fard, A.	R. Foschi
2002	In-Plane Shake-Table Testing of Unreinforced Masonry Walls Strengthened with Fibre Reinforced-Plastics	Turek, M. E.	C. Ventura
2001	Static and Dynamic Testing of the Midply Shear Wall System	Buitelaar, M.	S. Stiemer
2001	Semiotics of Structural Frames in Modern Architecture	Chan, D. C-Y.	S. Stiemer
2001	Optimal Seismic Retrofitting Level for Bridges Based on Benefit-Cost Analysis	Gao, Y.	R. Sexsmith/R. Foschi
2001	An Experimental Study on the Seismic Interaction of Flexible Conductors with Electrical Substation Eqpt.	Ghalibafian, H.	C. Ventura
2001	Seismic Response of Diagonally Reinforced Slender Coupling Beams	Gonzalez, E.	P. Adebar
2001	Optimal Retrofit Strategy Determination for Bridges Using Decision Analysis	Khan, S. A.	R. Sexsmith
2001	Vibration Characteristics of Single-Family Woodframe Buildings	Kharrazi, M. H. K.	C. Ventura/H. Prion
2001	Finite Element Model for Cyclic Loading of Concrete Filled Steel Tube Pile	Park, M. Y.	R. Foschi
2001	Fibre Reinforced Plastic Retrofits	Ross, S.	R. Sexsmith/N. Banthia

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2001	Analytical Studies of a 49-storey Eccentric Braced Building	Safai, A. J.	C. Ventura
2001	Seismic Performance of Pretensioned Spun High Strength Concrete Piles	Taksinrote, W.	P. Adebar
2001	Performance of Brick Veneer Ties under Cyclic Loadings	Wibowo, A.	P. Adebar
2000	Seismic Behavior and Computer Modeling of Low-Rise Steel Frame Structures	Bakhtavar, M. S.	C. Ventura
2000	Design of Weight-Optimized Space Frame for the Canadian Large Adaptive Reflector	Chang, Y-Y.	S. Stierner
2000	Hinge Zone Tie Spacing in Reinforced Concrete Tilt-up Frame Panels	Dew, M-J.	R. Sexsmith
2000	Numerical & Experimental Investigation of Seismic Torsional Response of Single Storey Ductile Structures	Dusicka, P.	C. Ventura
2000	Testing and Analysis of Midply Shear Wall System	Lungu, D.	S. Stierner
2000	Reinforced Multiple Bolt Timber Connections	Mastschuch, R.	H. Prion
2000	Evaluation of Deteriorated Reinforced Concrete Channel Beam Bridge Decks Retrofit with Glass Fibre Reinforced Polymers	Ross, S. L.	R. Sexsmith
2000	Inelastic Response of Torsionally Unbalanced Multistorey Shearwall Buildings Designed Using Elastic Static and Dynamic Analyses	Sewell, C. D.	C. Ventura
1999	A model for the Response of Single Timber Fasteners and Piles under Cyclic and Dynamic Loading	Allotey, N. K.	R. Foschi
1999	Evaluation of Structural Earthquake Damage to Buildings in Southwestern BC	Blanquera, A.	C. Ventura
1999	Evaluation of Non-Structural Earthquake Damage to Buildings in Southwestern BC	Cook, S.	C. Ventura
1999	A Study on the Seismic Behaviour of 52-storey Steel Frame Building	Ding, Y.	C. Ventura
1999	Comparison of Limit States Design with Working Stress Design for Shallow Foundations	Lysay, G.	R. Sexsmith
1999	A Numerical Investigation of Ballistic Impact on Textile Structures	ShahKarami, N. A.	R. Vaziri
1999	The Use of Microtremor Measurements for Seismic Hazard Studies in the G.V.R.D.	Teo, D.	C. Ventura
1999	Verification of an Analytical Hysteresis Model for Dowel-Type Timber Connections Using Shake Table Tests	Wong, E. Y.	R. Foschi
1998	Dynamic Analysis of Civil Engineering Structures Using Joint Time-Frequency Methods	Black, C. J.	C. Ventura
1998	Shake Table Testing and the Performance Evaluation of a Repaired and Retrofitted Oak Street Bridge Bent with Fiberglass Jacketing	Chen, G.	R. Sexsmith
1998	Seismic Response of Wood Shearwalls with Oversized Oriented Strand Board panels	Durham, J.	H. Prion
1998	Fibre Reinforced Concrete in Shear and Flexure	Henley, J.	P. Adebar
1998	Response of Timber Bridges to Traffic Loading	Horyna, T.	R. Foschi/C. Ventura

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1998	Longitudinal Non-Linear Seismic Response of Long Bridges	Hsi, Y.	D. Anderson
1998	Shake Table Test of Oak Street Bridge Bent: Correlation of Analysis and Experiment	Khoshnevisan, M.	R. Sexsmith
1998	Non-Linear Dynamic Analysis of Re-inforced Concrete Frames and Application to Seismic Reliability	Martinez, A.	R. Foschi
1998	Seismic Shear Response of RC Members with Varying Ductility	Roux, S.	P. Adebar
1998	Qualitative Analysis Methods Applied to Fatigue Design of Metal Structures	Zhou, Y.	S. Stierner
1997	Three-Dimensional Nonlinear Dynamic Seismic Behaviour of a Seven Story Reinforced Concrete Building	Doulatabadi, P. R.	C. Ventura
1997	The Seismic Response of a Timber Frame with Dowel Type Connections	Frenette, C.	H. Prion
1997	A Study of Wood based Shear Walls Sheathed with Oversize Oriented Strand Board Panels	He, M.	F. Lam/H. Prion
1997	Performance of Unstiffened Steel Plate Shear Walls Under Cyclic Quasi-Static Loading	Lubell, A.	H. Prion/C. Ventura
1997	Risk-Based Decision Model for Bridges	Nishimura, K.	R. Sexsmith
1997	Penetration of Composite Laminates by Conical Indenters and Projectiles	Sanders, T.	R. Vaziri/A. Poursartip
1997	Coating Maintenance Optimization for Steel Penstocks	Siu, M.	S. Stierner
1997	Experimental Evaluation of the ULAG Glulam Beam Simulation Program	Timusk, P. C.	H. Prion
1997	Experimental Study of a Bolt-Bushing System for Structural Composite Lumber	Voiculescu, D.	H. Prion/F. Lam
1997	Qualitative Analysis Methods Applied to Shrinkage and Distortion Problems in Design of Weldments	Zhou, Y.	S. Stierner
1996	Analysis of Steel Encased Concrete Joints	Baraka, M.	H. Prion
1996	Oak Street Bridge Model Bent Shake Table Test	Davey, E.	R. Sexsmith/C. Ventura
1996	Comparison of Non-Linear Analytical and Experimental Curvature Distributions in Two-Column Bridge Bents	English, D. S.	D. Anderson
1996	Ambient Vibration Assessment of Ruskin Dam Dynamic Properties	Kemp, B. G.	C. Ventura
1996	A Contribution to the Study of the Performance of Steel Pipe Piles Welded to Concrete Pier Cap Beams Under Seismic Loads	Steunenberg, M.	R. Sexsmith/S. Stierner
1996	Investigation of Hybrid Bridge Girder with Concrete Web and Steel Flanges	van Leeuwen, J.	P. Adebar
1996	Experimental Dynamic Verification of Open Piled Wharf Models	Yee, S. W. G.	C. Ventura