



Journal of Structural Engineering

565 Editor's Note
C. Dale Buckner

Technical Papers

- 567 Quasi-Static Reversed Cyclic Response of Level and Stepped Cripple Walls
Y. H. Chai, Tara C. Hutchinson, and Steven M. Vukazich
- 576 Influence of Hysteretic Behavior on Equivalent Period and Damping of Structural Systems
Wing-Pin Kwan and Sarah L. Billington
- 586 Experimental Study on Steel Shear Wall with Slits
Toko Hitaka and Chiaki Matsui
- 596 Cyclic Performance of Concrete-Backed Stone Masonry Walls
Mohamed A. H. Abdel-Halim and Samer A. Barakat
- 606 Seismic Retrofit of Shear Walls with Headed Bars and Carbon Fiber Wrap
James Paterson and Denis Mitchell
- 615 Shear Capacity of Fiber-Reinforced Polymer-Strengthened Reinforced Concrete Beams: Fiber Reinforced Polymer Rupture
J. F. Chen and J. G. Teng
- 626 Strength of Concrete Filled Steel Box Columns Incorporating Interaction Buckling
Mohanad Mursi and Brian Uy
- 640 Preliminary Analysis of High-Rise Braced Frames with Facade Riggers
J. C. D. Hoenderkamp and H. H. Snijder
- 648 Automated Design of Steel Frames Using Advanced Analysis and Object-Oriented Evolutionary Computation
Christopher M. Foley and Daniel Schinler

contents continue on back cover



contents continued from front cover

- 661 Nonlinear Elastoplastic Analysis of Semirigid Steel Frames at Elevated Temperature: MP Approach
V. Vimonsatit, K. H. Tan, and S. K. Ting
- 672 Combining Dynamic Relaxation Method with Artificial Neural Networks to Enhance Simulation of Tensegrity Structures
Bernd Dömer, Etienne Fest, Vikram Lalit, and Ian F. C. Smith
- 682 Evaluation of Expected Life-Cycle Maintenance Cost of Deteriorating Structures
Jung S. Kong and Dan M. Frangopol
- 692 Concrete Uniaxial Tensile Strength and Cylinder Splitting Test
Zhuhai Lin and Laurence Wood

Technical Notes

- 699 Adaptive Wood Composite: Experiment
Watanachai Smittakorn and Paul R. Heyliger

Discussions and Closures

- 703 Discussion of "Size Effect in Concrete Columns: Finite-Element Analysis with Microplane Model" by Michele Brocca and Zdeněk P. Bažant
Richard R. Bradshaw
- 703 Closure by *Michele Brocca and Zdeněk P. Bažant*
- 704 Discussion of "Buckling of Thin-Walled Silos and Tanks under Axial Load—Some New Aspects" by Martin Pircher and Russell Q. Bridge
John H. Scarino
- 704 Closure by *Martin Pircher and Russell Q. Bridge*

Book Reviews

- 706 Review of *Integrated Life Cycle Design of Structures* by Asko Sarja
Steven Maberry

ASCE
American Society
of Civil Engineers

1801 Alexander Bell Drive
RESTON, VA 20191-4400



0733-9445(200305)129:5:1-W