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Steel Structure, Structural Dynamics, Earthquake Resistance Design

期刊論文 (Journal Papers)

1. 歐易佳、陳力維、蔡青宜、吳安傑、蔡克銓，2020，「利用虛擬側力與破壞機制探討挫屈束制支撐面外穩定性及案例評估分析」，結構工程，第 35 卷，第 1 期，第 78-105 頁。
2. Tsai CY, Tsai KC, Li CH, Wu CC, Lin KC, Jhuang SJ (2020), "Seismic fracture evaluation of diaphragm joints in welded beam-to-box column moment connections" *Earthquake Engng Struct. Dyn.*, <https://doi.org/10.1002/eqe.3293>
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6. Chen LW, Tsai KC, Tsai CY, Wu AC (2019), "Evaluating out-of-plane stability for welded BRBs considering flexural restrainer and gusset rotations", *J. of Constructional Steel Research*, 159(8):161-175.
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9. 張舉虹、蔡克銓 (2019)「含鋼板阻尼器構架最佳化設計」，結構工程，第 34 卷，第 1 期，第 27-56 頁。
10. Lin, JL, Dai, JY, Tsai, KC (2019), "Optimization approach to uniformly distributed peak inter-story drifts along building heights", *ASCE, Journal of Structural Engineering*, 145 (5), 04019032.

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12. Li, CH, Tsai, KC, Su, L, Lin, PC, Lin, TH (2018), “Experimental investigations on seismic behavior and design of bottom vertical boundary elements in multi-story steel plate shear walls”, *Earthquake Engng Struct. Dyn.*, DOI: 10.1002/eqe.3106, 47(14): 2777-2801.
13. Tsai, CY, Tsai, KC, Chen, LW, Wu, AC (2018), “Seismic performance analysis of BRBs and gussets in a full-scale 2-story BRB-RCF Specimen,” *Earthquake Engng Struct. Dyn.*, 47(12): 2366-2389.
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2. Chuang MC, Wang KJ, Tsai KC (2020) “Online Model Updating Technologies for Advancing Hybrid Simulations of a Steel Panel Damper Substructure”, *Proceedings of the 8th International Conference on Advances in Experimental Structural Engineering*, Christchurch, New Zealand.
3. Wang KJ, Chuang MC, Tsai KC (2020) “A Flexible and Extensible Software Platform for Quasi-static

- Structural Testing”, *Proceedings of the 8th International Conference on Advances in Experimental Structural Engineering*, Christchurch, New Zealand.
4. Tsai KC (2019) “Researches on BRBs and BRBFs”, *Proceedings of SHAKE International Conference, Smart Technologies & Advanced Knowledge in Earthquake Engineering*, Nov. 14-16, Manila Philippines.
 5. Takeuchi T, Matsui R, Koizumi K, Lin PC, Iwanaga M, Wu AC, Tsai KC (2019) “Lateral Buckling Performance Test of Roof Beam Braced with Grid-purlin System”, *Proceeding of The Pacific Structural Steel Conference*, Nov. 16-18, Tokyo, Japan.
 6. Chen C and Tsai KC (2019) “Global Stability of BRBs using Truss Restrainer”, *Proceedings of The 32nd KKHTCNN Symposium on Civil Engineering*, October 24-26, Daejeon, Korea.
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 8. 蔡克銓(2019) 「建築勘災及重建」，921地震二十週年回顧與省思研討會論文集，2019年9月19-20日，中國土木水利工程學會，台北，台灣。
 9. Tsai CY, Wu CC, Li CC and Tsai KC (2019) “Fracture Assessment of Electro-Slag Welding Connection In Steel Beam-To-Box Column Joints”, *Proceedings of International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake*, Taipei, September 15-19.
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 13. Wang KJ, Chuang MC, Li CH, Tsai KC (2019) “A Distributed Computing Platform for Conventional Hybrid Simulation” *Proceedings, 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, June 24-26, Crete, Greece.
 14. Wang KJ, Chuang MC, Tsai KC, Li CH, Chin PY, Chueh SY (2019) “Advanced Hybrid Simulation with Model Updating of a Spatial Structure with Steel Panel Dampers” *Proceedings, 16th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures*,

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