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Geotechnical earthquake engineering including soil dynamics, ground motion characterization and site response analysis

期刊論文 (Journal Paper)

1. O.L.A. Kwok, P.-C. Guan, W.-P. Cheng, C-T. Sun (2015). Semi-Lagrangian reproducing kernel particle method for slope stability analysis and post-failure simulation, *KSCE Journal of Civil Engineering*, 19 (1), 107-115
2. Kwok, A.O., Stewart, J.P., Hashash, Y.M.A. (2008). "Nonlinear ground response analysis of Turkey Flat shallow stiff soil site to strong ground motion," *Bulletin of Seismological Society of America*, 98 (1), 331-343 (SCI, Geochemistry & Geophysics)
3. Kwok, A.O., Stewart, J.P., Hashash, Y.M.A., Matasovic, N., Pyke, R., Wang, Z., and Yang, Z. (2007). "Use of exact solutions of wave propagation problems to guide implementation of nonlinear seismic ground response analysis procedures," *Journal of Geotechnical & Geoenvironmental Engineering*, ASCE, 133 (11), 1385-1398 (SCI, Engineering/Geological)

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1. Kwok, T.-C. Lai, Y.-H. Gao (2014). Medium to Large-strain dynamic property of mixed soils. *Proceedings of The Twenty-Seventh KKHTCNN Symposium on Civil Engineering*, November 9-12, 2014, Shanghai, China.
2. Kwok and H.-C. Chiu (2014). Developing correlation relationships of Vs30 for use in site classification in Taiwan. *10th National Conference on Earthquake Engineering*, Alaska, Anchorage.
3. P.C. Guan and O.L.A. Kwok (2014). Use of Semi-Lagrangian Reproducing Kernel Particle Method for the Simulations of Gravity Flow and Earthquake-Induced Landslide. *APACM Thematic Conference & IACM Special Interest Conference : Computational Engineering and Science for Safety and Environmental Problems (COMPSAFE 2014)*, Sendai, Japan.
4. Kwok and P.-C. Guan (2013). Semi-Lagrangian reproducing kernel particle method for slope stability analysis and slope failure simulation. *The 2nd International Conference on Geotechnics for Sustainable Development (Geotec Hanoi 2013)*, Hanoi, Vietnam.
5. Kwok and P.-C. Guan (2013). Development of Multi-Phase Meshfree Method for

- Landslide Modeling. The 15th Conference on Current Researches in Geotechnical Engineering in Taiwan, Yunlin, Taiwan.
6. On Lei Annie Kwok, Hsien-Chi Chiu (2012). Developing correlations relationships of v_{s30} for use in site classification. The Twenty-fifth KKCNN Symposium on Civil Engineering, October 22-24, 2012, Busan, Korea.
 7. On Lei Annie Kwok, Pai-Chen Guan, Wei-Po Cheng, and Chien-Ting Sun (2012). Development of meshfree method for slope stability and post-failure analyses. 2012 International Conference on Geomechanics and Engineering, 26-30 August 2012, Seoul, Korea.
 8. Kwok O.L., Chen Y.S., Cheng W.B. (2011). Evaluation of the Effectiveness of Site Response Analysis by Using Vertical Array. Proceedings of The Twenty-Fourth KKCNN Symposium on Civil Engineering December 14-16, 2011, Hyogo, Japan, Hyogo, Japan.
 9. On Lei Annie Kwok (2011). Uncertainty in Nonlinear Seismic Ground Response Analyses. Proceedings of The 5th Cross-strait Conference on Structural and Geotechnical Engineering (SGE-5) Hong Kong, China, 13-15 July 2011, Hong Kong.
 10. On Lei Annie Kwok (2010). Parameterization of Nonlinear Soil Behavior in Ground Response Analysis. Proceedings of The Twenty-Third KKCNN Symposium on Civil Engineering November 13-15, 2010, Taipei, Taiwan
 11. Pradel, D., Garner, J. and Kwok. A.O. (2010). Design of Drilled Shafts to Enhance Slope Stability. Proceedings Earth Retention Conference 3, ASCE GeoInstitute, August 1-4, 2010, Bellevue, Washington.

技術報告

1. O.L.A. Kwok (2014) 液化土壤與基礎互制作用之試驗與分析整合研究—子計畫:樁基礎在土壤液化和側向滑動地盤行為之數值模擬(I) 科技部技術報告, MOST 102-2625-M-002-013
2. O.L.A. Kwok and P.C. Guan (2013) 無網格法在大地工程中大變形問題之理論發展與應用, 國科會技術報告, NSC 101-2221-E-002-173
3. O.L.A. Kwok and H.C. Chiu (2013). 與地表以下30米的平均剪力相關模型之建立及在場址分類上的應用, 技術報告101-S-A03, 101年度財團法人宗倬章先生教育基金會補助研究計畫
4. O.L.A. Kwok(2012) 非線性地震地層反應分析:標準分析步驟之建立與垂直陣列之驗證, 國科會技術報告, NSC100-2218-E-002-015