

# COLLEGE OF ENGINEERING Mining & Geological Engineering

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## Pinnaduwa Kulatilake

Professor of Mining and Geological Engineering Professor of Materials Science and Engineering

#### Courses

#### Prob+Stat Geologic Media

MNE 402 (Spring 2018) MNE 502 (Spring 2017) MNE 402 (Spring 2017) GEN 402 (Spring 2017)

#### **Rock Slope Design**

MNE 529 (Fall 2017) MNE 529 (Fall 2016)

#### Dissertation

GEN 920 (Fall 2017) GEN 920 (Spring 2017) GEN 920 (Fall 2016)

### **Selected Publications**

#### Journals/Publications

- Yunfeng, G. e., Kulatilake, P. H., Tang, H., & Xiong, C. (2014). Investigation of natural rock joint roughness. Computers and Geotechnics, 55, 290-305.
- Kulatilake, P. H., & Wu, Q. (2013). Development of an orthotropic constitutive model for a jointed rock mass. 47th US Rock Mechanics / Geomechanics Symposium 2013, 1, 555-562.
- Kulatilake, P. H., & Wu, Q. (2013). Tunnel stress analyses in 3-D using equivalent continuum and discontinuum procedures. 47th US Rock Mechanics / Geomechanics Symposium 2013, 4, 2774-2781.

- Kulatilake, P. H., Qiong, W. u., Zhengxing, Y. u., & Jiang, F. (2013). Investigation of stability of a tunnel in a deep coal mine in China. International Journal of Mining Science and Technology, 23(4), 579-589.
- Nengxiong, X. u., Kulatilake, P. H., Tian, H., Xiong, W. u., Nan, Y., & Wei, T. (2013). Surface subsidence prediction for the WUTONG mine using a 3-D finite difference method. Computers and Geotechnics, 48, 134-145.
- Ren, Q., Tang, H., & Kulatilake, P. H. (2013). The deformation behavior of the soft rock applied in the construction of the underground pipe work engineering. *ICPTT 2013*:
- Trenchless Technology The Best Choice for Underground Pipeline Construction and Renewal, Proceedings of the International Conference on Pipelines and Trenchless Technology, 812-817.
  H., P. (2012). Preface: Special issue on selected topics in rock mechanics and rock engineering. Geotechnical and Geological Engineering, 30(3), 523-524.
- Kulatilake, P. H. (2012). Preface: Special Issue on Selected Topics in Rock Mechanics and Rock Engineering. Geotechnical and Geological Engineering, 1-2.
- Kulatilake, P. H., Hudaverdi, T., & Qiong, W. u. (2012). New prediction models for mean particle size in rock blast fragmentation. *Geotechnical and Geological Engineering*, 30(3), 665-684.
- Kulatilake, P. H., Wang, X., & Song, W. (2012). Stability investigations in three-dimensions around a tunnel in a metal mine in China. 2012 SME Annual Meeting and Exhibit 2012, SME 2012, Meeting Preprints, 640-652.
- Qiong, W. u., & Kulatilake, P. H. (2012). Application of equivalent continuum and discontinuum stress analyses in three-dimensions to investigate stability of a rock tunnel in a dam site in China. Computers and Geotechnics, 46, 48-68.
- Qiong, W. u., & Kulatilake, P. H. (2012). REV and its properties on fracture system and mechanical properties, and an orthotropic constitutive model for a jointed rock mass in a dam site in China. Computers and Geotechnics, 43, 124-142.
- Wang, L., Kulatilake, P. H., Tang, H., & Liang, Y. (2012). Rock slope stability study for Yujian River dam site based on kinematic analyses. Advanced Materials Research, 446-449, 2048-2055.
- Wang, X., Kulatilake, P. H., & Song, W. (2012). Stability investigations around a mine tunnel through three-dimensional discontinuum and continuum stress analyses. *Tunnelling* and Underground Space Technology, 32, 98-112.
- Zhang, Z. X., Xu, Y., Kulatilake, P. H., & Huang, X. (2012). Physical model test and numerical analysis on the behavior of stratified rock masses during underground excavation. International Journal of Rock Mechanics and Mining Sciences, 49, 134-147.



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