

Wei Mingdong

Research Fellow

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Education

Doctoral degree: Civil Engineering, Sichuan University, China (2013.09-2018.06)

Bachelor's degree: Civil Engineering, Sichuan University, China (2009.09-2013.06)

Working Experience

2020.10-present: Research fellow, Nanyang Technological University, Singapore

2018.07-2020.09: Postdoctoral researcher, Solid Mechanics, Aalto University, Finland

Research Interests

Fracture prediction of rocks; Cold region geomechanics; Intelligence in geotechnical engineering

Selected Publications

Wei MD, Polojärvi A, Cole DM, Prasanna M. Strain response and energy dissipation of floating saline ice under cyclic compressive stress. *Cryosphere*. 2020;14:2849–2867.

Wei MD, Dai F, Zhou JW, Liu Y, Luo J. A further improved maximum tangential stress criterion for assessing mode I fracture of rocks considering non-singular stress terms of the Williams expansion. *Rock Mechanics and Rock Engineering*. 2018;51(11):3471–3488.

Wei MD, Dai F, Xu NW, Liu Y, Zhao T. A novel chevron notched short rod bend method for measuring the mode I fracture toughness of rocks. *Engineering Fracture Mechanics*. 2018;190:1–15.

Wei MD, Dai F, Xu NW, Zhao T, Liu Y. Experimental and theoretical assessment of semi-circular bend specimens with chevron and straight-through notches for mode I fracture toughness testing of rocks. *International Journal of Rock Mechanics and Mining Sciences*. 2017;99:28–38.

Wei MD, Dai F, Xu NW, Zhao T. Stress intensity factors and fracture process zones of ISRM-suggested chevron notched specimens for mode I fracture toughness testing of rocks. *Engineering Fracture Mechanics*. 2016;168:174–189.

Honors and Awards:

2020.02, Research Scholarship Block-Fund Postdoc Fellowship, Nanyang Technological University

2018.10, Outstanding Doctoral Dissertation Award, Chinese Society for Rock Mechanics and Engineering