

Hossain Noferesti

Assistant Professor of Geomechanics

Department of Mining Engineering

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Academic Educations:

B. Tech.

Mining Engineering, University of Shahroud, Shahroud, 1996.

M. Tech.

Geomechanics, Amirkabir University of Technology, Tehran, 1998.

Ph.D.

Geomechanics, Indian Institute of Technology, New Delhi, 2007.

Research Interests:

Slope stability analysis

Numerical modeling in geomechanics

Optimization problems in mining engineering

Courses:

Fundamentals of rock mechanics

Exploration drilling

Mining excavations

Geotechnics

Advanced rock mechanics

Advanced open pit mining

Modeling and simulation of ore bodies

Publications (In English):

1. Noferesti Hossain, and Rao KS. "Physical simulation of brittle failure in rocks", Proceedings of Indian Geotechnical Conference, Chennai; 1:373-376, 2006.
2. Noferesti Hossain, and Rao KS. "The phenomenon of brittle failure in crystalline rocks". 13th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kolkata, India, 2007.
3. Noferesti Hossain, "Simulation of brittle failure in crystalline rocks". PhD Thesis, Indian Institute of Technology Delhi, New Delhi, 2007.
4. Noferesti Hossain, and Rao KS. "Role of the texture characteristics on the strength properties of crystalline rocks", 5thAsian Rock Mechanics Symposium, Tehran, 423-430, Iran, 2008.
5. Rao KS, and Noferesti Hossain. "Study of the brittle failure in heterogeneous crystalline rocks", Defence Science Journal, 58:2: 285-294, 2008.
6. Noferesti Hossain, and Rao KS. "New observations on the brittle failure process of simulated crystalline rocks", Rock Mech Rock Engg, 43:135-150, 2010.
7. Noferesti Hossain, and Rao KS. "Role of crystal interlocking on the strength of brittle rocks", Rock Mech Rock Engg, 44:221-230, 2011.
8. Dehvari Mohammad Eghbal, Noferesti Hossain, Azimian Abdolazim and Mohammadi Mojtaba. "Stability Analysis of the Slopes Overlooking Birjand's Havnan Village under Seismic Loading", World Applied Sciences Journal 22 (8): 1151-1161, 2013.
9. Noferesti Hossain, Fallah Hamzeh, Golabchi Yousef and Rezaee Mohsen. "Total Risk Rating and Liquefaction Analysis of Farrokh Earth Embankment Dam, Eastern Iran", Indian Geotech J, DOI 10.1007/s40098-014-0117-3, 45(2):181-191, 2015.
10. Fallah Hamzeh, Noferesti Hossain. "Stability assessment of the Farrokh earth embankment dam using the pseudo-static and deformation based methods", Int. Journal of Mining & Geo-Engineering, 49(2): 205-220, 2015.
11. Noferesti Hossain, Sayyari-Zahan Mohammad Hassan, Basirani Moghadam Hassan. "Investigating the role of diatomite admixing on the water absorption and retention capacity of the soil" Proceedings of the International Academy of Ecology and Environmental Sciences, 8(3): 183-193, 2018.
12. Noferesti H, Hazegh A. "Comparison of pseudo-static, Newmark and dynamic response analysis of the final pit wall of Sungun copper mine". International Journal of Mining and Geo-Engineering, 52(2): 141-147, 2018.