



King Abdulaziz University
Faculty of Engineering
Mining Engineering Department
Undergraduate Program

MINING ENGINEERING DEPARTMENT

MOST RECENT PUBLICATIONS

Faculty of Engineering
King Abdulaziz University
Jeddah, Kingdom of Saudi Arabia
Jeddah, 2014



MINING ENGINEERING STAFF PUBLICATIONS FROM 2009 TO 2014

1. Hussin A.M. Ahmed “Effect of Depreciation Expenses on Profitability of Mineral Processing Plants” *Materials Testing*, vol. 56 (5), 2014
2. Hussin A.M. Ahmed, M. S. Juhani and J. Drzymala “Flotation after a Direct Contact of Flotation Reagents with Carbonate Particles –Part 2: Phosphate Ore” *Materials Testing*, vol. 56 (2), 2014
3. Hussin A.M. Ahmed, M. S. Juhani and J. Drzymala “Flotation after a Direct Contact of Flotation Reagents with Carbonate Particles –Part 1: Model Investigation” *Physicochem. Probl. Miner. Process.* 49(2), 2013, 713–723
4. Hussin A.M. Ahmed and Gamal M. Attia “Processing of iron ore fines from Alswaween locality, Kingdom of Saudi Arabia” *Physicochem. Probl. Miner. Process.* 49(2), 2013, 419–430
5. Hussin A.M. Ahmed and J. Drzymala “Upgrading difficult-to-float coal using microemulsion” *Minerals & Metallurgical Processing*, Vol. 29, No. 2, pp. 88-96, 2012
6. Hussin A.M. Ahmed and Ayman A. El-Midany “Gold recovery from sulphide minerals: a bioprocessing approach” *AFINIDAD* – Art. 3957; May 2012
7. Hussin A.M. Ahmed and Ayman A. El-Midany “Statistical Optimization of Gold Recovery from Difficult-To-Be Leached Sulphide Minerals Using Bacteria” *Materials Testing*, vol. 54, issue 5, pp 351-357; 2012
8. Hussin A. M. Ahmed "A comparative study to determine the gap between Egyptian and world phosphate upgrading" *Engineering Journal of Mining Engineers' Association of India*, issued by Indian Centre for Advanced Scientific and Technological Research (ICASTR), Vol. 12 No. 5, January, 2011
9. Hussin A.M. Ahmed “Dry versus wet upgrading of nepheline syenite ores" *Physicochemical Problems of Mineral Processing journal*, 46 , pp, 107-118, 2011
10. Hussin A.M. Ahmed “Single Versus Double Technology Upgrading of Nepheline Syenite Ore for Different Industrial Applications” at XIIth International Mineral Processing Symposium, turkey, Hacettepe university 6-8 October, 2010
11. Hussin A.M. Ahmed and J. Drzymala “Upgrading difficult-to-float coal using microemulsion” *Alazhar Engineering International Conference*, 21-23, December 2010, Cairo, Egypt
12. Hussin A. M. Ahmed "Assessment of industrial-scale fluctuated separation results" *Engineering Journal of Mining Engineers' Association of India*,



- issued by Indian Centre for Advanced Scientific and Technological Research (ICASTR), Vol. 12 No. 5, December 2010
13. M. Sari, E Ghasemi, M Ataei, (2014). Stochastic modeling approach for the evaluation of back break due to blasting operations in open pit mines, *Rock Mechanics and Rock Engineering*, 47:771-783.
 14. M. Sari, (2013). Reply to Discussion by R. Bertuzzi on "An improved method of fitting experimental data to the Hoek-Brown failure criterion" by Sari, M., *Engineering Geology* (2012), 127:27-35, *Engineering Geology*, 152:215-216.
 15. M. Sari, (2012). Stochastic estimation of the Hoek-Brown strength parameters using spread sheet models. In: *EUROCK 2012, ISRM International Symposium*, 28-30 May 2012, Stockholm.
 16. E. Ghasemi, M. Sari, M. Ataei, (2012). Development of an empirical model for predicting the effects of controllable blasting parameters on flyrock distance in surface mines, *Int. J. of Rock Mechanics & Mining Sciences*, 52:163-170.
 17. M. Sari, (2012). An improved method of fitting experimental data to the Hoek-Brown failure criterion, *Engineering Geology*, 127:27-35.
 18. M. Sari, (2011). Determination of effective parameters on rock mass strength and deformation using Monte Carlo method. In: *ROCKMEC'2011, 10th Regional Rock Mechanics Symposium*, 8-9 December, pp. 97-104, METU, Ankara (in Turkish).
 19. M. Sari, (2010). A simple approximation to estimate the Hoek-Brown parameter 'mi' for intact rocks. In: *EUROCK 2010, Rock Mechanics in Civil and Environmental Engineering*, Zhao, Labiouse, Dudt & Mathier (eds), pp. 169-172, Taylor & Francis Group, London.
 20. M. Sari, C. Karpuz, C. Ayday, (2010). Estimating rock mass properties using Monte Carlo simulation: Ankara andesites, *Computers & Geosciences*, 36:959-969.
 21. M. Sari, (2009). The stochastic assessment of strength and deformability characteristics for a pyroclastic rock mass, *Int. J. of Rock Mechanics & Mining Sciences*, 46:613-626.
 22. M. Sari, A.S. Selcuk, C. Karpuz, H.S.B. Duzgun, (2009). Stochastic modeling of accident risks associated with an underground coal mine in Turkey. *Safety Science*, 47 (2):78-87.
 23. Abdel Hafeez G. S., Comparison Between Bottom and Side Injection of Bentonite Slurry in Treatment of Sand Dunes) *Journal of Engineering Sciences*, (JES), Assiut Univ., Egypt Vol.38, No. 1, 2010.
 24. M Aboushook, Mohamed-noor N. Almaghrbi, Abdel Hafeez, G. S. " Patient on the Stabilization of sand dune in KSA by using Bentonite Kholise, , funded by KACST-GDRG, KSA 2010



25. Abdel Hafeez G. S., "Correlation Between Work Index And Mechanical Properties Of Some Saudi Ores" ,Journal of Material Testing Vol. 54, 2 (2012), pp 108- 112
26. Abdel Hafeez G. S., "Evaluation and Optimization of Operating Parameters affecting Davis Tube Magnetic Tester by Using 2nd Factorial Design" , Journal of Material Testing Vol. 54, 6 (2012), pp 437- 443
27. M Aboushook, Mohamed-noor N. Almaghrbi, Abbas Fadol, and Abdel Hafeez, G. S. "Different methods for stabilisation of sand dunes using calcium bentonite" Int. J. Environmental Engineering Vol.4 Nos ½ 2012, pp 79-91
28. Salah, A. Badr, and G. S Abdel Hafeez,. "Numerical Modeling of Macro-Scale Brittle Rock Crushing during Impacts Journal of Engineering Sciences, (JES), Assiut Univ., Egypt accepted Nov 2012
29. A. Mageed & Abdel Hafeez G. S., " Utilization Of Limestone Dust in Brick Making" Journal of Engineering Sciences, (JES), Assiut Univ., Egypt Vol.40, No. 3 , pp 913-922, May. 2012
30. Ahmad Hussain, Dheya Al-Othmany (2013) "Assessment of Aging of Zr-2.5Nb Pressure Tubes for Use in Heavy Water Reactor, Journal of Natural Sciences Research. Vol. 3, No 2.
31. Ahmad Hussain, Dheya Al-Othmany (2013) "Treatment and Conditioning of Spent Ion Exchange Resin from Nuclear Power Plant, Journal of Advances in Physics Theories and Applications. ISSN: 2224-719X (paper) ISSN: 2225-0638 (Online), Vol 15, 79-89.
32. Dheya Al-Othmany (2012) "Natural Radioactivity in Wadi Muhrim, Taif, Saudi Arabia, Journal of Natural Science Research, Vol. 2, Issue 10: 42-61
33. Dheya Al-Othmany, (2013) "Estimation of Flow Accelerated Corrosion (FAC) in Feeder Pipes Using CFD software Fluent", the International Institute for Science, Technology and Education (IISTE). ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) www.iiste.org. PP. 4-8. Impact Factor 5.5.
34. Ahmad Hussain, Dheya Al-Othmany (2013) "Design of Thermal Loop of a Compact Reactor, International Journal of Engineering and Advance Technology Studies, ISSN: 2249 - 8958 (Online) <http://www.ijeat.org/>. Vol. 1, No 1.PP. 1-10. Impact Factor 1
35. Shahnor Basri, Ahmad Hussain, Dheya Al-Othmany, Faizal Mustapha, Dewan M, Nuruzzaman, (2013) "Three Dimensional Finite Element Modeling of Thermomechanical Problems in Functionally Graded Hydroxy-apatite/Titanium Plate", Materials Science & Engineering A, ISSN: 0921-5093 , Impact Factor 2.349
36. Dheya Al-Othmany, M. Solaiman Ali (2012) "How to be an Effective Technical Writer? International Journal of Engineering Pedagogy, Vol. 2, Issue 3: 4-10
37. Dheya Al-Othmany, Samir Abdul Majid, Mohammad W. Kadi," Fast



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Neutron Dose Mapping in a Linac Radiotherapy Facility”, Proceedings of the 10th Radiation Physics & Protection Conf., 27-30 Nov. 2010, Cairo, Egypt, pp: 123-128.