

DAFTAR PUSTAKA

- Arif, I. (2016). *Geoteknik tambang*. Jakarta: PT Gramedia.
- Bemmelen, R. W. van. (1949). *The geology of Indonesia* (Vol. IA). The Hague: Government Printing Office.
- Bieniawski, Z. T. (1984). *Rock mechanics design in mining and tunneling*. Rotterdam: A.A. Balkema.
- Bieniawski, Z. T. (1989). *Engineering rock mass classifications*. New York: Wiley.
- Brown, E. T. (1981). *Rock characterization testing and monitoring (ISRM suggested methods)*. Oxford: Pergamon Press.
- Cook, R. D., Malkus, D. S., Plesha, M. E., & Witt, R. J. (2001). *Concepts and Applications of Finite Element Analysis* (4th ed.). Wiley.
- Diederichs, M. S. (1999). *Instability of hard rock masses* (Doctoral dissertation). Canada: 395 Wellington Street, Ottawa.
- Diederichs, M. S. (2007). *Numerical Modelling and Analysis of Excavation Damage in Highly Stressed Rocks*.
- Goyal, M. (2007). *Computer-based numerical and statistical techniques*. Massachusetts: Infinity Science Press.
- Harrison, J. P., & Hudson, J. A. (2000). *Engineering rock mechanics: An introduction to the principles*. Elsevier.
- Hartono, H. M. S. (1969). *Geological Map of the Yogyakarta Sheet*, Geological Survey of Indonesia, scale 1:100.000.
- Hoek E. (1994). *Strength of Rock and Rock Masses*. ISRM News Journal, 4-16.
- Hoek, E. & Brown, E.T. (2006). *Practical Estimates of Rock Mass Strength*. International Journal of Rock Mechanics and Mining Sciences, 34(8), 1165–1186.
- Hoek, E. (2000). *Practical Rock Engineering*. Rocscience.
- Hoek, E. (2001). *Big Tunnels in Bad Rock*. Terzaghi Lecture, *Journal of Geotechnical and Geoenvironmental Engineering*, 127(9), 726–740.
- Hoek, E. (2006). *Practical rock engineering – Chapter 11: Rock mass properties*. Rocscience.
- Hoek, E., & Brown, E. T. (1980). Empirical strength criterion for rock masses. *Journal of the Geotechnical Engineering Division*, 106(9), 1013–1035.

- Hoek, E., & Brown, E. T. (1980). *Underground excavation in rock*. London: CRC Press.
- Hoek, E., & Brown, E. T. (2002). Failure criterion. In *Proceedings of the NARMS-TAC Conference* (Vol. 1, pp. 267–273). Toronto, Canada.
- Hoek, E., & Brown, E.T. (1997): *Practical Estimates of Rock Mass Strength*, International Journal of Rock Mechanics and Mining Sciences, 34(8), 1165–1186.
- Hoek, E., & Martin, C. D. (2014). Fracture initiation and propagation in intact rock – A review. *Journal of Rock Mechanics and Geotechnical Engineering*, 6(4), 287–300.
- Hoek, E., Kaiser PK, Bawden WF. (1995). *Supprot of Underground Excavation in Hard Rock*. Rotterdam: A.A. Balkema.
- Hoek, E., Marinos, P., & Benissi, M. (2019). The Hoek–Brown failure criterion – 2018 edition. *Journal of Rock Mechanics and Geotechnical Engineering*, 11(3), 445–463.
- Hudson, J. A., & Harrison, J. P. (1997). *Engineering Rock Mechanics: An Introduction to the Principles*. Pergamon Press.
- Jaeger, J. C., Cook, N. G. W., & Zimmerman, R. (2007). *Fundamentals of Rock Mechanics* (4th ed.). Wiley-Blackwell.
- Jaeger, J.C., Cook, N.G.W., & Zimmerman, R.W. (2007): *Fundamentals of Rock Mechanics* (4th ed.). Blackwell Publishing.
- Made, A. R., Kramadibrata, S., & Wattimena, R. K. (2014). *Mekanika batuan*. Bandung: Institut Teknologi Bandung.
- Munir, R. (2003). *Metode numerik*. Bandung: Informatika.
- Nugraha, A. D. (2015). *Karakteristik Alterasi Hidrotermal dan Mineralisasi di Daerah Plampang, Kalirejo, Kokap, Kulon Progo, Yogyakarta*.
- Pambudi, A., Anggraini, R., & Wijayanti, A. (2018). *Karakteristik Alterasi dan Mineralisasi pada Sistem Epitermal Sulfidasi Rendah Daerah Plampang, Kulon Progo, Yogyakarta*. Prosiding PIT IAGI.
- Pringgoprawiro, H., & Riyanto, S. (1987). *Geologi Daerah Kulon Progo dan Sekitarnya, Jawa Tengah*. Bandung: Pusat Penelitian dan Pengembangan Geologi.
- Rahardjo, W., Sukandarrumidi, & Rosidi, H. M. D. (1995). *Geologi Lembar Yogyakarta dan Sebagian Lembar Surakarta, Jawa* (Peta Geologi skala 1:100.000). Bandung: Pusat Penelitian dan Pengembangan Geologi.
- Rocscience Inc. (2022). *RS2 – User manual*. Rocscience. <https://www.rocscience.com/help/rs2/>
- Rocscience Inc. (2023). *RSData – Rock and Soil Strength Analysis Software – User Manual*. Toronto: Rocscience.

- Rocscience Inc. (2025). *RS2 Verification & Theory Manual*. Toronto: Rocscience.
- Rocscience. *RS2 Help Manual*. Retrieved from <https://www.rocscience.com>
- Saptono, S. (2021). *Penentuan Kekuatan Jangka Panjang Massa Batuan*. LPPM LPPM UPN "Veteran" Yogyakarta. ISBN 978-623-7840-06-0
- Saptono, S. (2021). *Sistem klasifikasi massa batuan untuk tambang terbuka*. LPPM UPN "Veteran" Yogyakarta. ISBN 978-623-7594-11-6
- Saptono, Singgih, M. Rahman Yulianto, Vega Vergiagara, dan Herry Sofyan. (2019). *Rock Mass Classification for Sedimentary Rock Masses in Indonesia Coal Mining Areas*. 2nd International Conference on Earth Science, Mineral, and Energy Volume 2245.
- Shen, B., & Karakus, M. (2014). A simplified method for estimating the Hoek–Brown constant for intact rocks. *Rock Mechanics and Rock Engineering*, 47(3), 1037–1044.
- Shen, B., & Karakus, M. (2014). *A simplified method for estimating the Hoek–Brown constant for intact rocks*. *International Journal of Rock Mechanics and Mining Sciences*, 70, 269–272.
- SNI 2825:2008. *Cara Uji Kuat Tekan Batu*. Badan Standardisasi Nasional.
- Subardi. (2001). *Karakteristik Sistem Epitermal Sulfidasi Rendah di Daerah Kalirejo, Kulon Progo, DIY*. Prosiding Seminar Nasional Kebumihan, Yogyakarta: Jurusan Teknik Geologi UGM.
- Sulistyo, D., Sujatmiko, W., & Nugroho, T. (2019). *Studi Vulkanostratigrafi dan Potensi Mineralisasi Daerah Kalirejo, Kulon Progo, Yogyakarta*. Buletin Sumber Daya Geologi, 14(2), 95–106.
- Ulusay, R., & Hudson, J. A. (Eds.). (2007). *The complete ISRM suggested methods for rock characterization, testing and monitoring: 1974–2006*. ISRM Turkish National Group.
- Vutukuri, V. S., & Katsuyama, K. (1994). *Introduction to rock mechanics*. Rotterdam: A.A. Balkema.
- Walton, S., Hassan, O., Brown, M. R., & Morgan, K. (2011). Modified cuckoo search: A new gradient free optimisation algorithm. *Chaos, Solitons & Fractals*, 44(9), 710–718.
- Wang, G.-G., Deb, S., & Cui, Z. (2015). Cuckoo search algorithm with orthogonal learning method. *Neural Computing and Applications*, 27(4), 893–903.
- Wiyono, B., Verigagara, V., & Yulianto, M. R. (2024). *Buku panduan praktikum laboratorium mekanika batuan*. Program Studi Teknik Pertambangan, Fakultas Teknologi Mineral, Universitas Pembangunan Nasional “Veteran” Yogyakarta.

- Yadav, S. K., & Singh, T. N. (2011). Determination of strength parameters for Jointed rocks using a modified numerical technique. *International Journal of Rock Mechanics and Mining Sciences*, 48(1), 67–76.
- Yang, X.-S., & Deb, S. (2009, December). Cuckoo search via Lévy flights. In *Proceedings of the World Congress on Nature & Biologically Inspired Computing (NaBIC)* (pp. 210–214).
- Zuo, J., Shen, J. (2020). *The Hoek-Brown Failure Criterion From Theory to Application*. Springer