

DAFTAR PUSTAKA

- Abdullatif, O. M., & Cruden, D. M. (1983). The relationship between rock mass quality and ease of excavation. *Bulletin of the International Association of Engineering Geology - Bulletin de l'Association Internationale de Géologie de l'Ingénieur*, 28(1), 183–187. <https://doi.org/10.1007/BF02594813>
- American Society for Testing and Materials. (1998). *Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass*. ASTM International. <https://doi.org/10.1520/D2216-98>
- American Society for Testing and Materials. (2003b). *Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications*. ASTM International. <https://doi.org/10.1520/D5731-02>
- Badan Standardisasi Nasional. (2008a). Cara Uji Berat Jenis Tanah. Dalam *Standar Nasional Indonesia*. Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2008b). Cara Uji Kuat Geser Langsung Tanah Terkonsolidasi dan Terdreinase. Dalam *Standar Nasional Indonesia*. Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2008c). Cara Uji Kuat Tekan Batu Uniaksial. Dalam *Standar Nasional Indonesia*. Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2008d). Cara Uji Penentuan Kadar Air untuk Tanah dan Batuan di Laboratorium. Dalam *Standar Nasional Indonesia*. Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2015). Tata Cara Pengklasifikasian Tanah untuk Keperluan Teknik dengan Sistem Klasifikasi Unifikasi Tanah. Dalam *Standar Nasional Indonesia*. Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2016). Metode Uji Kuat Geser Langsung Tanah Tidak Terkonsolidasi dan Tidak Terdreinase. Dalam *Standar Nasional Indonesia*. Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2017). Persyaratan Perancangan Geoteknik. Dalam *Standar Nasional Indonesia*. Badan Standardisasi Nasional.

- Bieniawski, Z. T. (1989). *Engineering rock mass classification: A complete manual for engineers and geologists in mining, civil, and petroleum engineering* (321 pp.). Wiley-Interscience.
- Bowles, J. E. (1989). *Sifat-sifat fisis dan geoteknis tanah* (430 pp.). Erlangga.
- Cook, H. E. (1965). Textural classification of pyroclastic rocks. *Geological Society of America Bulletin*, 76(12), 1239–1252.
- Dagdelenler, G. (2020). Comparison of the efficiency evaluations of selected excavatability classifications for rock masses. *Arabian Journal of Geosciences*, 13, Article 753. <https://doi.org/10.1007/s12517-021-07553-x>
- Dearman, W. R. (1991). *Engineering geological mapping* (1st ed., 387 pp.). Butterworth-Heinemann. <https://doi.org/10.1007/BF02634605>
- Deere, D. U., & Miller, R. P. (1966). *Engineering classification and index properties for intact rock* (Report No. AFWL-TR-65-116, 308 pp.). National Technical Information Service.
- Deere, D. U., & Deere, D. W. (1988). The rock quality designation (RQD) index in practice. In L. Kirkaldie (Ed.), *Rock classification systems for engineering purposes* (pp. 91–101). American Society for Testing and Materials.
- Deng, D.-P., Zhao, L.-H., & Li, L. (2017). Limit equilibrium analysis for rock slope stability using basic Hoek–Brown strength criterion. *Journal of Central South University*, 24, 2154–2163. <https://doi.org/10.1007/s11771-017-3624-4>
- Diandita, B. (2025). *Evaluasi geologi teknik dan analisis stabilitas lereng inlet terowongan pengelak Bendungan Jatinegara, Kabupaten Tegal, Provinsi Jawa Tengah*. Universitas Gadjah Mada.
- Dinata, S., Nugroho, I. S., & Indrawan, I. G. B. (2019). *Evaluasi kondisi geologi teknik dan analisis kestabilan terowongan saluran pengelak Bendungan Jragung, Kabupaten Semarang, Provinsi Jawa Tengah*. Universitas Gadjah Mada.
- Duncan, J. M. (1996). State of the art limit equilibrium and finite-element analysis of slopes. *Journal of Geotechnical Engineering*, 122, 577–596.
- Embry, A. F., & Klovan, J. E. (1971). A late Devonian reef tract on northeastern Banks Island, NWT. *Bulletin of Canadian Petroleum Geology*, 19(4), 730–781.
- Eveny, O. N., Ariyanto, Sutoyo, H. D., & Saptono, S. (2019). Analysis of tunnel stability in very weak rock. *Global Journal of Engineering Science and Research*, 6, 155–163. <https://doi.org/10.5281/zenodo.2616843>

Ganny, I. (2025). *Evaluasi kestabilan lereng portal inlet dan potensi rembesan di terowongan pengelak Bendungan Bagong Kabupaten Trenggalek Provinsi Jawa Timur*. Universitas Gadjah Mada.

Giani, P. (1992). *Rock slope stability analysis* (361 pp.). A.A. Balkema.

Gonzales de Vallejo, L., & Ferrer, M. (2011). *Geological engineering*. CRC Press.

Hardiyatmo, H. C. (2002). *Mekanika tanah I* (Edisi ketiga, 395 pp.). Gadjah Mada University Press.

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., & Diederichs, M. S. (2006). Empirical estimation of rock mass modulus. *International Journal of Rock Mechanics and Mining Sciences*, 43, 203–215.

Hoek, E., Carranza-Torres, C., & Corkum, B. (2002). Hoek–Brown failure criterion—2002 edition. In *Proceedings of the NARMS–TAC Conference* (pp. 267–273).

Huggett, R., & Shuttleworth, E. (2022). *Fundamentals of geomorphology*. Routledge.

ISRM. (1978). Suggested methods for the quantitative description of discontinuities in rock masses. *International Journal of Rock Mechanics and Mining Sciences*, 15, 319–368.

Jiang, J.-C., & Yamagami, T. (2005). Three-dimensional limit equilibrium slope stability analysis: simplified methods vs rigorous methods. *Journal of the Japan Landslide Society*, 42(2), 129–135. https://doi.org/10.3313/jls.42.2_129

Leopold, L. B., & Wolman, M. G. (1970). River channel patterns. In *Rivers and river terraces* (pp. 197–237). London: Palgrave Macmillan UK.

Marinos, P., & Hoek, E. (2000). GSI: A geologically friendly tool for rock mass strength estimation. In *Proceedings of the GeoEng2000 International Conference* (pp. 122–144). Technomic Publishers.

Mount, J. (1985). Mixed siliciclastic and carbonate sediments: a proposed first-order textural and compositional classification. *Sedimentology*, 32(3), 435–442.

Nguyen, V. M., & Nguyen, Q. P. (2015). Analytical solution for estimating the stand-up time of the rock mass surrounding tunnel. *Tunnelling and Underground Space Technology*. Elsevier.

- Noya, Y., Suwarti, T., Suharsono, & Sarmili, L. (1992). *Peta geologi lembar Mojokerto, Jawa*. Pusat Penelitian dan Pengembangan Geologi.
- Palmström, A. (2005). Measurements of and correlations between block size and rock quality designation (RQD). *Tunnelling and Underground Space Technology*, 20(4), 362–377. <https://doi.org/10.1016/j.tust.2005.01.005>
- Pantelidis, L. (2009). Rock slope stability assessment through rock mass classification systems. *International Journal of Rock Mechanics and Mining Sciences*, 46(2), 315–325. <https://doi.org/10.1016/j.ijrmms.2008.06.003>
- Pettifer, G. S., & Fookes, P. G. (1994). A revision of the graphical method for assessing the excavatability of rock. *Quarterly Journal of Engineering Geology*, 27(2). <https://doi.org/10.1144/gsl.qjegh.1994.027.p2.05>
- Pramarsantya, Q. E. (2025). *Desain geometri terowongan pengelak berdasarkan evaluasi kondisi geologi teknik pada perencanaan awal Bendungan Bodri Kabupaten Kendal Provinsi Jawa Tengah*. Universitas Gadjah Mada.
- Price, D. G. (2009). *Engineering geology: Principles and practice* (M. H. de Freitas, Ed.). Springer.
- PT. Mettana Engineering Consultant. (2012). *Laporan akhir desain detail pembangunan Bendungan Pedes*. Direktorat Jenderal Sumber Daya Air, Kementerian Pekerjaan Umum.
- Putera, D. A., Hendrayana, H., & Indrawan, I. G. B. (2021). Engineering geological characteristics based on Rock Mass Rating (RMR) and Geological Strength Index (GSI) in Jlantah Dam intake tunnel, Karanganyar
- Rahardjo, P. P. (2004). *Teknik terowongan*. Geotechnical Engineering Center, Universitas Katolik Parahyangan.
- Rori, S. V., Balamba, S., & Sarajar, A. N. (2017). Analisis tanah pada bukaan terowongan (Studi kasus: Terowongan Kawasan Green Hill, Malendeng). *Jurnal Sipil Statik*, 5(6), 314.
- Sandria, L. A. (2023). *Kajian geologi teknik dan analisis kestabilan lereng portal dan penyangga terowongan pada perencanaan terowongan pengelak Bendungan Dolok, Kabupaten Demak, Jawa Tengah*, Universitas Gadjah Mada.
- Suhendro, B. (2000). *Metode elemen hingga dan aplikasinya*. Jurusan Teknik Sipil, Fakultas Teknik, Universitas Gadjah Mada.
- Terzaghi, K. (1946). *Rock defects and loads on tunnel supports* (203 pp.). Harvard University Press.

- Tibri, T. dan Salman. 2017. *Analisa Kestabilan Terowongan Jalan Menggunakan Metode Empirik dan Analitik*. Prosiding Seminar Nasional FT. UISU. Vol. 1, h. 13.
- Tsiambaos, G., & Saroglou, H. (2010). Excavatability assessment of rock masses using the Geological Strength Index (GSI). *Bulletin of Engineering Geology and the Environment*, 69(1), 13–27. <https://doi.org/10.1007/s10064-009-0235-9>
- Van Bemmelen, R. W. (1949). *The geology of Indonesia: Vol. IA. General geology of Indonesia and adjacent archipelagos* (732 pp.). Government Printing Office.
- Van Zuidam, R. A. (1983). *Guide to geomorphologic aerial photographic interpretation and mapping*. ITC.
- Wesley, L. D. (2017). *Mekanika tanah*. Penerbit Andi.
- Wentworth, C. K. (1922). A scale of grade and class terms for clastic sediments. *The Journal of Geology*, 30, 377–392. <https://doi.org/10.1086/622910>
- Wijaya, R. A., & Isnawan, D. (2015). Analisis kekuatan massa batugamping dengan menggunakan kaidah Hoek-Brown failure criterion - Roclab di daerah Gunung Sudo Kabupaten Gunung Kidul Yogyakarta. *Jurnal Promine*, 21–35.
- Zhu, D. Y. (2008). Investigations on the accuracy of the simplified Bishop method in landslides and engineered slopes. In *From the past to the future: Two volumes + CD-ROM* (pp. 1077–1080). CRC Press.