

## DAFTAR PUSTAKA

- Arianto, B., Indrawan, I. G. B., & Warmada, I. W. (2023). Tunnel Stability Analysis under Seismic Load Using Finite Element Method: A Case Study of Spillway Tunnel, Sidan Dam, Bali, Indonesia. *IOP Conference Series: Earth and Environmental Science*, v. 1244, p. 1–9, doi:10.1088/1755-1315/1244/1/012021.
- Audley-Charles, M. G. (1968). *The Geology of Portuguese Timor*. Geological Society, London, *Memoirs*, v. 4, p. 4–84, doi:10.1144/GSL.MEM.1968.004.01.02.
- Barton, N. (2002). Some New Q-Value Correlations to Assist in Site Characterization and Tunnel Design. *International Journal of Rock Mechanics and Mining Sciences*, v. 39, p. 185–216, doi:10.1016/S1365-1609(02)00011-4.
- Barton, N., Lien, R., & Lunde, J. (1974). Engineering Classification of Rock Masses for The Design of Tunnel Support. *Rock Mechanics and Rock Engineering*, v. 6(4), p. 189–236, doi:10.1007/BF01239496.
- Bieniawski, Z. T. (1989). *Engineering Rock Mass Classifications: A Complete Manual for Engineers and Geologists in Mining, Civil, and Petroleum Engineering*. John Wiley & Sons, Inc., Canada, 272 p., ISBN: 978-0-471-60172-2.
- Davydov, V., Haig, D., & McCartain, E. (2014). Latest Carboniferous (Late Gzhelian) Fusulinids from Timor Leste and Their Paleobiogeographic Affinities. *Journal of Paleontology*, v. 88(3), p. 588–605, doi:10.1666/13-007.
- Dearman, W. R. (1991). *Engineering Geological Mapping*. Butterworth–Heinemann Ltd., Oxford, 396 p., ISBN: 978-1-4831-0261-0.
- Deere, D. U., & Deere, D. W. (1989). *Rock Quality Designation (RQD) After Twenty Years*. U.S. Department of Commerce, National Technical Information Service (NTIS), Washington, DC, 65 p.
- Deere, D. U., & Miller, R. P. (1966). *Engineering Classification and Index Properties for Intact Rock*. Technical Report No. AFNL-TR-65-116, Air Force Weapons Laboratory, New Mexico, 289 p.
- Direktorat Jenderal Bina Marga. (2021). *Pedoman Penyelidikan Geologi Teknik dalam Pembangunan Terowongan Jalan*. Kementerian Pekerjaan Umum dan Perumahan Rakyat, Jakarta, 30 p.

- Dunham, R. J. (1962). Classification of Carbonate Rocks According to Depositional Texture. In: Ham, W. E. (Ed.), Classification of carbonate rocks. AAPG Memoir 1, American Association of Petroleum Geologists, Tulsa, p. 108–121.
- Elrawy, W., Abdelhaffez, G., & Saleem, H. (2020). Stability Assessment of Underground Openings Using Different Rock Support Systems. Rudarsko-Geološko-Naftni Zbornik, v. 35, p. 49–64, doi:10.17794/rgn.2020.1.5.
- Federal Highway Administration (FHWA). (2009). Technical Manual for Design and Construction of Road Tunnels – Civil Elements. National Highway Institute, Washington, DC, 702 p.
- Goodman, R. E. (1989). Introduction to rock mechanics (2nd ed.). John Wiley & Sons, New York, 576 p., ISBN: 978-0-471-81200-5.
- Grabau, A. W. (1904). On The Classification of Sedimentary Rocks. American Geologist, v. 33, 247 p.
- Hemphill, G. B. (2013). Practical Tunnel Construction, vol. 6. John Wiley & Sons, Inc., Hoboken, 304 p., ISBN: 978-1-118-35027-0.
- Hoek, E., & Brown, E. T. (1980). Underground Excavations in Rock. CRC Press, London, 536 p.
- Hoek, E., & Diederichs, M. S. (2006). Empirical Estimation of Rock Mass Modulus. International Journal of Rock Mechanics and Mining Sciences, v. 43(2), p. 203–215, doi:10.1016/j.ijrmms.2005.06.005.
- Hoek, E., Carranza-Torres, C. T., & Corkum, B. (2002). Hoek-Brown Failure Criterion – 2002 edition. Proceedings of the 5th North American Rock Mechanics Symposium (NARMS-TAC), Toronto, Canada, v. 1, p. 267–273.
- Indra Karya. (2019). Laporan akhir studi potensi dan kelayakan Bendungan Welikis di Kabupaten Belu. Malang, 335 p.
- Indra Karya. (2020). Detail Desain Bendungan Welikis di Kabupaten Belu. Malang.
- International Society for Rock Mechanics. (1978). Suggested Methods for The Quantitative Description of Discontinuities in Rock Masses. International Journal of Rock Mechanics and Mining Sciences & Geomechanics, 15(6), 319–368.
- Irawan, P., & Handiman, I. (2016). Analisa Geologi Teknik dalam Perencanaan Bendung Daerah Irigasi Parigi, Kabupaten Pangandaran. Jurnal Siliwangi, v. 2(2), November, ISSN: 2477-3891.

- Japan Society of Civil Engineers (JSCE). (2007). Standard Specifications for Tunneling – 2006: Mountain Tunnels. JSCE, Japan, 306 p.
- Kumar, R., Vasudevan, C., Sharma, G., & Lalitha, O. (2014). Guidelines for selection of tunnels and tunneling methods. *Journal of Engineering Geology A bi-annual journal of ISEG*, v. XXXIX, 177-187.
- Kurniawan, P., & Hadimuljono, M. (2021). *Applied Geotechnics for Engineers 1*, v. 1. Jakarta, 348 p.
- Mao, D., Nilsen, B., & Lu, M. (2011). Analysis of loading effects on reinforced shotcrete ribs caused by weakness zone containing swelling clay. *Tunnelling and Underground Space Technology*, 26, p. 472–480, doi:10.1016/j.tust.2011.01.004
- Mihalīs, I., Konstantīs, S., Anagnostopoulos, A., Vlavianos, G., & Doulis, G. (2009). Tunnel Stability Factor – A New Controlling Parameter for The Face Stability Conditions of Shallow Tunnels in Weak Rock Environment. *Proceedings of the 17th International Conference on Soil Mechanics and Geotechnical Engineering, The Academia and Practice of Geotechnical Engineering*, p. 2499–2502, doi:10.3233/978-1-60750-031-5-2499.
- Mitchell, J. K. (1993). *Fundamentals of Soil Behavior* (2nd ed.). John Wiley & Sons, New York, 437 p., ISBN 978-0-471-85640-5.
- Nichols, G. (2009). *Sedimentology and Stratigraphy* (2nd ed.). Wiley-Blackwell, 432 p., ISBN: 978-1-4051-3592-4.
- Palmstrøm, A. (1982). The Volumetric Joint Count – A Useful and Simple Measure of The Degree of Rock Mass Jointing. *Proceedings of the IV Congress of the International Association of Engineering Geology*, New Delhi, p. V.221–V.228.
- Palmström, A. (2009). Combining the RMR, Q, and R<sub>Mi</sub> classification systems. *Tunnelling and Underground Space Technology*, v. 24(4), p. 491–500, doi:10.1016/j.tust.2008.12.002.
- Pettijohn, F. J. (1957). *Sedimentary Rocks* (2nd ed.). Harper and Brothers, New York, 718 p.
- Pettijohn, F. J., Potter, P. E., & Siever, R. (1987). *Sand and sandstone* (2nd ed.). Springer Science+Business Media, New York, 631 p., ISBN: 978-0-387-90071-1.
- Purboyo, A. H. (2021). *Terowongan jalan*. Media Edukasi Indonesia, Banten, 229 p.

- Pusat Studi Gempa Nasional (Indonesia). (2017). Peta Sumber dan Bahaya Gempa Indonesia tahun 2017. Bandung: Pusat Penelitian dan Pengembangan Perumahan dan Permukiman, Badan Penelitian dan Pengembangan, Kementerian Pekerjaan Umum.
- Rai, M. A. (1988). Teknik Terowongan. Bandung: Jurusan Teknik Pertambangan, FTTM, ITB.
- Sachan, A., & Penumadu, D. (2007). Identification of Microfabric of Kaolinite Clay Mineral Using X-ray Diffraction Technique. *Geotechnical and Geological Engineering*, v. 25, p. 603–616, doi:10.1007/s10706-007-9133-8.
- Saptono, S., Titisariwati, I., & Hafshah, R. (2020). Analisis Kestabilan Lubang Bukaan Pada Terowongan Bekas Jalur Angkut Penambangan Mangan Diwatu Jonggol, Desa Karang Sari, Kecamatan Penagsih, Kabupaten Kulonprogo, D.I. Yogyakarta. *Jurnal Teknologi Pertambangan*, v. 6, p. 25–31.
- Sawyer, R. K., Kartono, S., & Brown, S. (1993). The stratigraphy and sedimentology of West Timor, Indonesia. *Proceedings of the Indonesian Petroleum Association, 22nd Annual Convention*, v. 1, p. 533–574.
- Sianturi, L., Indrawan, I., & Hendarto, H. (2024). Numerical Evaluation of The Main Spillway and Diversion Tunnel Excavation Method at Manikin Dam, Nusa Tenggara Timur Province. *Proceedings of the 4th International Conference on Green Civil and Environmental Engineering (GCEE 2023)*, doi:10.1063/5.0204879.
- Singh, B., & Goel, R. K. (2011). *Engineering rock mass classification*. Elsevier Inc., Amsterdam, 364 p., ISBN: 978-0-12-385878-8.
- Singhal, B. B. S., & Gupta, R. P. (2007). *Applied Hydrogeology of Fractured Rocks*. Springer Science & Business Media, Dordrecht, 400 p., ISBN: 978-90-481-8798-0.
- Standar Nasional Indonesia (SNI). (2017). SNI 8460:2017 – Persyaratan Perancangan Geoteknik. Badan Standardisasi Nasional, Jakarta, 323 p.
- Sudjianto, A. T. (2015). *Tanah Ekspansif*. Graha Ilmu, Yogyakarta, 174 p., ISBN 978-602-262-490-5.
- Suhendro, B. (2000). *Metode Elemen Hingga dan Aplikasinya*. Jurusan Teknik Sipil & Lingkungan, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta.
- Suwitodirjo, K., & Tjokrosapoetro, S. (1996). Peta Geologi lembar Kupang–Atambua, Timor, skala 1:250.000. Pusat Penelitian dan Pengembangan Geologi, Bandung, Indonesia.

- Terzaghi, K., Peck, R. B., & Mesri, G. (1996). *Soil Mechanics In Engineering Practice* (3rd ed.). John Wiley & Sons, New York, 549 p.
- van Zuidam, R. A. (1983). *Guide to Geomorphologic-Aerial Photographic Interpretation and Mapping*. International Institute for Geo-Information Science and Earth Observation (ITC), Enschede, Netherlands.