

## DAFTAR PUSTAKA

- Ayoublou, F., Taromi, M., and Eftekhari, A., 2019, Tunnel Portal Instability In Landslide Area and Remedial Solution: A Case Study: *Acta Polytechnica*, v. 59, p. 435–447, doi:10.14311/AP.2019.59.0435.
- Badan Geologi, 2009, Peta Zona Kerentanan Gerakan Tanah Provinsi Banten: Pusat Vulkanologi dan Mitigasi Bencana Geologi.
- Badan Standarisasi Nasional, 1991, SNI 03-2347 Metode Uji Laboratorium untuk Menentukan Parameter Sifat Fisika pada Sample Batuan:
- Badan Standarisasi Nasional, 1994, SNI 03-3637-1994 Metode Pengujian Berat Isi Tanah Berbutir Halus Cetakan Benda Uji:
- Badan Standarisasi Nasional, 1998, SNI 13-4691-1998 Penyusunan Peta Geologi:
- Badan Standarisasi Nasional, 1999, SNI 13-6185-1999 Penyusunan Peta Geomorfologi:
- Badan Standarisasi Nasional, 2008, SNI 2825:2008 Petunjuk Uji Kuat Tekan Uniaksial Batuan:
- Badan Standarisasi Nasional, 2020, SNI 3432-2020 Tata Cara Penetapan Banjir Desain Dan Kapasitas Pelimpah Untuk Bendungan:
- Badan Standarisasi Nasional, 2010, SNI 7573:2010 Analisis petrografi dan minegrafi:
- Badan Standarisasi Nasional, 2017, SNI 8460:2017 Persyaratan Perancangan Geoteknik:
- Badan Standarisasi Nasional (BSN), 2016, SNI 3420: 2016 Metode Uji Kuat Geser Langsung Tanah Tidak Terkonsolidasi Dan Tidak Terdrainase.:
- Barton, N., Lien, R., and Lunde, J., 1974, Engineering Classification of Rock Masses for the Design of Tunnel Support. *Rock Mechanics: Rock Mechanics*, v. 6, p. 189–236, doi:<https://doi.org/10.1007/BF01239496>.
- Bemmelen, R.W.V., 1949, The Geology Of Indonesia Vol. I A General Geology of Indonesia And Adjacent Archipelagos: Government Printing, The Hague, v. I A.
- Bieniawski, Z.T., 1989a, Engineering Rock Mass Classification : a complete manual for engineers and geologists in mining, civil, and petroleum engineering: New York, John Wiley & Sons, Inc.
- Bieniawski, Z.T., 1989b, Engineering Rock Mass Classification: a complete manual for engineers and geologists in mining, civil, and petroleum engineering: Canada, A Wiley-Interscience Publication.
- Blissett, D.J., 2014, Geological field techniques: *Geological Journal*, v. 49, p. 107–108, doi:10.1002/gj.2449.
- Brahmantyo, B., and Bandono, 2006, Klasifikasi Bentuk Muka Bumi (Landform) untuk Pemetaan Geomorfologi pada Skala 1:25.000 dan Aplikasinya untuk Penataan Ruang: *Jurnal Geoaplika*, v. 1, p. 71–78, doi:10.31227/osf.io/8ah6v.
- Chow, V.T., 1959, Open Channel Hydraulics: New York, McGraw-Hill.
- Cole, J.W., Kohn, B.P., Pullar, W.A., Milne, J.D.G., Vucetich, C.G., and Healy, J., 1972, Pyroclastic nomenclature in New Zealand: *New Zealand Journal of Geology and Geophysics*, v. 15, p. 686–692, doi:10.1080/00288306.1972.10423994.
- Dearman, W.R., 1991, Engineering geological mapping: London ; Boston, Butterworth-Heinemann, Butterworths advanced series in geotechnical engineering, 387 p.
- Deere, D.U., Hendron, A.J., Patton, F.D., and Cording, E.J., 1967, Design of Surface and Near-Surface Construction in Rock. In *Failure and Breakage of Rock: Proceedings of 8th US Symposium Rock Mechanics*, Society of Mining Engineers, American Institute of Mining, Metallurgical and Petroleum Engineers (SAUS), p. 237–302.

Dharmansyah, R.G., Hidayatulloh, C.K., and Cahyani, R., 2021, Prediksi Modulus Deformasi Batuan Menggunakan Modulus Elastisitas Batuan pada Batu Gamping:

Direktorat Jenderal Bina Marga, 2021a, SE Dirjen Bina Marga Nomor: 17/SE/Db/2021 tentang Penyelidikan Geologi Teknik dalam Pembangunan Terowongan Jalan:

Direktorat Jenderal Bina Marga, 2021b, SE Dirjen Bina Marga Nomor: 17/SE/Db/2021 tentang Penyelidikan Geologi Teknik dalam Pembangunan Terowongan Jalan:

Fathoni, M.R., 2013, Pemodelan Pemasangan Penyangga Sementara Menggunakan Perangkat Lunak Phase 2 Pada Headrace Tunnel Chainage 155 M – 265 M di PLTA Tulis Kabupaten Banjarnegara, Jawa Tengah: Geological Engineering E-Journal, v. 5, p. 167–182.

Firincioglu, B.S., and Ercanoglu, M., 2021, Insights and perspectives into the limit equilibrium method from 2D and 3D analyses: Engineering Geology, v. 281, p. 105968, doi:10.1016/j.enggeo.2020.105968.

Fisher, R.V., 1966, Rocks composed of volcanic fragments and their classification: Earth-Science Reviews, v. 1, p. 287–298, doi:10.1016/0012-8252(66)90010-9.

Fitriyantina, L., 2023, The handling of tunnel collapse and settlement (case study: Jragung Dam diversion tunnel, Indonesia): IOP Conference Series: Earth and Environmental Science, v. 1233, p. 012016, doi:10.1088/1755-1315/1233/1/012016.

Freymueller, J., 2017, Geodynamics, in Teunissen, P.J.G. and Montenbruck, O. eds., Springer Handbook of Global Navigation Satellite Systems, Cham, Springer International Publishing, p. 1063–1106, doi:10.1007/978-3-319-42928-1\_37.

Gattinoni, P., Pizzarotti, E.M., and Scesi, L., 2014, Engineering Geology for Underground Works: Dordrecht, Springer Netherlands, doi:10.1007/978-94-007-7850-4.

Hardiyatmo, H.C., 2002, Mekanika Tanah 1: Yogyakarta, Gadjah Mada University Press.

Hoek, E., 1994, Strength of rock and rock masses: News Journal of international Society for Rock Mechanics, p. 4–16.

Hoek, E., and Brown, E.T., 2019, The Hoek–Brown failure criterion and GSI – 2018 edition: Journal of Rock Mechanics and Geotechnical Engineering, v. 11, p. 445–463, doi:10.1016/j.jrmge.2018.08.001.

Hoek, E., Carranza-Torres, C., Corkum, B., Hoek, E., and Carranza-Torres, C., 2002, Hoek-Brown failure criterion - 2002 Edition, in Proceedings of the 5th North American Rock Mechanics Symposium and the 17th Tunnelling Association of Canada Conference, Toronto, p. 267–273.

Hoek, E., Carter, T.G., and Diederichs, 2013, Quantification of the Geological Strength Index Chart, <https://api.semanticscholar.org/CorpusID:131619333>.

Hoek, E., Kaiser, P.K., and Bawden, W.F., 1995, Support of Underground Excavation in Hard Rock: Rotterdam, A.A. Balkema.

Hoek, E., Marinos, P., and Benissi, M., 1998, Applicability of the geological strength index (GSI) classification for very weak and sheared rock masses. The case of the Athens Schist Formation: Bulletin of Engineering Geology and the Environment, v. 57, p. 151–160, doi:10.1007/s100640050031.

Hoek, E., Wood, D., and Shah, S., 1992, A modified Hoek-Brown failure criterion for jointed rock masses: Rock Characterization: ISRM Symposium, p. 209–213.

Huang, Y., Fu, Z., Chen, J., Zhou, Z., and Wang, J., 2015, The external water pressure on a deep buried tunnel in fractured rock: Tunnelling and Underground Space Technology, v. 48, p. 58–66, doi:10.1016/j.tust.2015.02.003.

Hungr, O., Leroueil, S., and Picarelli, L., 2014, The Varnes classification of landslide types, an update: Landslides, v. 11, p. 167–194, doi:10.1007/s10346-013-0436-y.

- Indrawan, I.G.B., Sunardi, Murti, A.B., and Alfrianto, R., 2024, Comparison of stability analysis methods for safe design of volcanic rock slope: *Journal of Degraded and Mining Lands Management*, v. 12, p. 6651–6664, doi:10.15243/jdmlm.2024.121.6651.
- Institute, A.G., and Howell, J.V., 1960, *Glossary of Geology and Related Sciences: A Cooperative Project of the American Geological Institute: American Geological Institute*, <https://books.google.co.id/books?id=6UIrAAAAYAAJ>.
- Islam, M.S., and Iskander, M., 2021, Twin tunnelling induced ground settlements: A review: *Tunnelling and Underground Space Technology*, v. 110, p. 103614, doi:10.1016/j.tust.2020.103614.
- ISRM, 1978, *Suggested methods for the quantitative description of discontinuities in rock masses: International Society for Rock Mechanics: Pergamon Press Ltd*, v. 15, p. 319–368.
- Japan Society of Civil Engineers (JSCE), 2018, *Standard Specification For Tunneling - 2016: Mountain Tunnels*.
- Jo, Y.-S., Cho, S.-H., and Jang, Y.-S., 2016, Field investigation and analysis of ground sinking development in a metropolitan city, Seoul, Korea: *Environmental Earth Sciences*, v. 75, p. 1353, doi:10.1007/s12665-016-6141-0.
- Khabbaz, H., Gibson, R., and Fatahi, B., 2019, Effect of constructing twin tunnels under a building supported by pile foundations in the Sydney central business district: *Underground Space*, v. 4, p. 261–276, doi:10.1016/j.undsp.2019.03.008.
- Kuntjoro, and Subakti, I., 2019, *Perencanaan Bendung Pengelak Waduk Jadi 1 di Tuban: YSCEJ: Yos Soedarso Civil Engineering Journal*, v. 1, p. 1–20.
- Kurniawan, P., and Hadimuljono, B., 2021, *Applied Geotechnics For Engineers 1: Yogyakarta, Andi Offset*, <https://books.google.co.id/books?id=JWUD0AEACAAJ>.
- Liang, X., Guan, L., Tang, Y., Chen, M., Peng, J., and Xu, C., 2023, A Study on the Influence of Dewatering in the Excavation of Adjacent Tunnels under Lateral Soil Effects: *Applied Sciences*, v. 14, p. 102, doi:10.3390/app14010102.
- Marinos, P.G., and Hoek, E., 2001, Estimating the geotechnical properties of heterogeneous rock masses such as flysch: *Bulletin of Engineering Geology and the Environment*, v. 60, p. 85–92.
- Marinos, P.G., and Hoek, E., 2000, GSI: A Geologically Friendly Tool For Rock Mass Strength Estimation, <https://api.semanticscholar.org/CorpusID:126913216>.
- Marinos, P.G., Marinos, V., and Hoek, E., 2007, Geological Strength Index (GSI). A characterization tool for assessing engineering properties for rock masses, <https://api.semanticscholar.org/CorpusID:31150181>.
- Mohr, O., 1900, Welche Umstände bedingen die Elast- izitätsgrenze und den Bruch eines Materials? *Z. Ver. dt. Ing.*: v. 44, p. 1524–1530.
- Morgenstern, N.R., and Price, V.E., 1965, The Analysis of the Stability of General Slip Surfaces: *Géotechnique*, v. 15, p. 79–93, doi:10.1680/geot.1965.15.1.79.
- Morton, K.L., and Van Mekerck, F.A., 1993, A phased approach to mine dewatering: *Mine Water and the Environment*, v. 12, p. 27–33, doi:10.1007/BF02914796.
- Narendra, A.A.Ngr.B., Yujana, C.A., Bagiarta, I.K.Y., and Aryastana, P., 2021, Analisis Alternatif Perencanaan Dimensi Terowongan Pengelak Bendungan Sidan: *PADURAKSA: Jurnal Teknik Sipil Universitas Warmadewa*, v. 10, p. 325–337, doi:10.22225/pd.10.2.3357.325-337.
- Onyelowe, K.C., Ebid, A.M., Ramani Sujatha, E., Fazel-Mojtahedi, F., Golaghaei-Darzi, A., Kontoni, D.-P.N., and Nooralddin-Othman, N., 2023, Extensive overview of

- soil constitutive relations and applications for geotechnical engineering problems: Heliyon, v. 9, p. e14465, doi:10.1016/j.heliyon.2023.e14465.
- Pettijohn, F.J., 1975, Sedimentary Rocks: Harper & Row, Harper international edition, <https://books.google.co.id/books?id=9EYSAQAIAAJ>.
- PT. Mettana, 2018, Laporan Akhir Pekerjaan Detail Desain Bendungan Pasir Kopo di Kabupaten Lebak Tahap II:
- Rahman, A., and Muhyiddin, F.N., 2018, Uji Laboratorium Mekanika Batuan Menggunakan Metode Unconfined Compressive Strength (Ucs) Pada Batuan Inti (Core) Batu Pasir: Jurnal Migasian, v. 2, p. 35–41, doi:10.36601/jurnal-migasian.v2i2.44.
- Rai, M.A., 2014, Mekanika Batuan: Bandung, Penerbit ITB.
- Reinke, P., and Ravn, S., 2025, Twin-tube, single-track high-speed rail tunnels and consequences for aerodynamics, climate, equipment and ventilation:
- Rose, N.D., Scholz, M., Burden, J., King, M., Maggs, C., and Havaej, M., 2018, Quantifying transitional rock mass disturbance in open pit slopes related to mining excavation.: Proceedings of the XIV international congress on energy and mineral resources,.
- Soleman, M.K., 2012, Pemetaan multirawan bencana di Provinsi Banten: Globe, v. 14, p. 46–59.
- Spencer, E., 1973, Thrust line criterion in embankment stability analysis: Géotechnique, v. 23, p. 85–100, doi:10.1680/geot.1973.23.1.85.
- Sujatmiko, and Santosa, S., 1992, Peta Geologi Lembar Leuwidamar: Geological Survey Systematic Geological Map, Indonesia.
- Tim Pusat Studi Gempa Nasional, 2017, Peta Sumber dan Bahaya Gempa di Indonesia Tahun 2017: Bandung, Pusat Penelitian dan Pengembangan Perumahan Permukiman Badan Penelitian dan Pengembangan Kementerian Pekerjaan Umum dan Perumahan Rakyat.
- Wentworth, C.K., 1932, The classification and terminology of the pyroclastic rocks: Natl. Res. Council Bull., v. 89, p. 19–53.
- Wulan, A., and Prastiwi, B., 2011, Analisa pembangunan terowongan air sebagai bangunan pengelak waduk Jatigede, Sumedang, Jawa Barat: Proceeding PESAT (Psikologi, Ekonomi, Sastra, Arsitektur & Sipil), v. 4.
- Wyllie, D.C., and Mah, C.W., 2017, Rock slope engineering: civil and mining: CRC Press, doi:10.1201/9781315274980.
- Zhou, Z., Ding, H., Miao, L., and Gong, C., 2021, Predictive model for the surface settlement caused by the excavation of twin tunnels: Tunnelling and Underground Space Technology, v. 114, p. 104014, doi:10.1016/j.tust.2021.104014.
- Zuidam, R.A. van, 1985, Aerial photo-interpretation in terrain analysis and geomorphologic mapping: The Hague, Smits Publishers, 442 p.