

## DAFTAR PUSTAKA

- Abad, J., Caleda, B., Chacon, E., Gutierrez, V., & Hidlgo, E. (1984). Application of Geomechanical Classification to Predict the Convergence of Coal Mine Galleries and to Design Their Supports. *5th International Congress on Rock Mechanic*.
- Abdullatif, O., & Cruden, D. (1983). The relationship between rock mass quality and ease of excavation . *Bulletin of Engineering Geology and the Environment*, 28, 183–178.
- Abramson, L. W., Lee, S. S., & Boyce, G. M. (2002). *Slope Stability And Stabilization Methods*. John Willey & Sons.
- ASTM. (2003). *Standard Test Method for Determination of the Point Load Strength Index of Rock 1*.
- Badan Standardisasi Nasional. (2008a). *SNI 1964:2008: Cara Uji Berat Jenis Tanah*.
- Badan Standardisasi Nasional. (2008b). *SNI 1965:2008: Cara Uji Penentuan Kadar Air untuk Tanah dan Batuan di Laboratorium*.
- Badan Standardisasi Nasional. (2008c). *SNI 2813:2008: Cara Uji Kuat Geser Langsung Tanah Terkonsolidasi dan Terdrainase*.
- Badan Standardisasi Nasional. (2008d). *SNI 2825:2008: Cara Uji Kuat Tekan Batu Uniaksial*.
- Badan Standardisasi Nasional. (2015). *SNI 6371:2015: Tata Cara Pengklasifikasian Tanah Untuk Keperluan Teknik dengan Sistem Klasifikasi Unifikasi Tanah*.
- Badan Standardisasi Nasional. (2016). *SNI 3420:2016: Metode Uji Kuat Geser Langsung Tanah Tidak Terkonsolidasi dan Tidak Terdrainase*.
- Badan Standardisasi Nasional. (2017). *SNI 8460:2017 Persyaratan perancangan geoteknik*. [www.bsn.go.id](http://www.bsn.go.id)
- Barber, A. J., Crow, M. J., & Milsom, J. S. (2005). Sumatera: Geology, Resources and Tectonic Evolution. *The Geological Society London*.

- Barton, N. (2002). Some New Q-value Correlations to Assist in Site Characterisation and Tunnel Design. *International Journal of Rock Mechanics & Mining Sciences*, 39(Pergamon), 185–216.
- Barton, N., Lien, R., & Lunde, J. (1974). Engineering Classification of Rock Masses for the Design of Tunnel Support. *Rock Mechanics and Rock Engineering: Springer – Verlag*, 189–236.
- Bennet, J. D., Bridge, D., Cameron, N. R., Djunuddin, A., Ghazali, S. A., Jeffery, D. H., Kartawa, W., Keats, W., Rock, N. M., Thomson, S. J., & Whandoyo, R. (1981). Peta Geologi Lembar Banda Aceh, Sumatra. *Peta Geologi Indonesia*.
- Bieniawski, Z. T. (1989a). *Engineering Rock Mass Clasification Mining and Mineral Resources Research Institute*. Pennsylvania State University.
- Bieniawski, Z. T. (1989b). *Engineering Rock Mass Classifications*. John Wiley & Sons, Inc.
- Bowles, J. E. (1989). *Sifat-sifat Fisis dan Geoteknis Tanah*. Erlangga.
- Cameron, N. R. (1983). The Geology Of Banda Aceh Quadralange, Sumatera, Skala 1:250.000. *Pusat Penelitian Dan Pengembang Geologi, Direktorat Pertambangan Umum DPE, Bandung*.
- Cameron-Clarkea, I. S., & Budavaria, S. (1981). Correlation of rock mass classification parameters obtained from borecore and In-situ observations. *Engineering Geology*, 17(1–2), 19–53.
- Cosar, S. (2014). *Application of Rock Mass Classification Systems for Future Support Design of the Dim Tunnel Near Alanya*. Middle East Technical University, Ankara.
- Dagdelenler, G. (2020). *Comparison of the efficiency evaluations of selected excavatability classifications for rock masses*. <https://doi.org/10.1007/s12517-021-07553-x>/Published
- Dearman, W. R. (1991). *Engineering Geological Mapping* (1st ed.). Butterworth-Heinemann Ltd. <https://doi.org/10.1007/BF02634605>
- Deere, D., & Miller, R. (1996). Engineering Classification and Index Properties for Intact Rock. In *Technical Report No. AFWL-TR-65-116*.

- Air Force Weapons Laboratory. Kirkland Air Force Base. Technical Report No. AFWL-TR-65-116. Air Force Weapons Laboratory. Kirkland Air Force Base.*
- Duncan, J. M. (1996). State of the Art Limit Equilibrium and Finite-Element Analysis of Slopes. In *Journal of Geotechnical Engineering* (122nd ed., pp. 577–596). American Society of Civil Engineers.
- Giani, P. (1992). *Rock Slope Stability Analysis*. AA Balkema.
- H. Tanaka. (1964). *Introduction of geology to civil engineers*.
- Hammah, R. E., Curran, J. H., Yacoub, T., & Corkum, B. (2004). Stability Analysis of Rock Slopes using the Finite Element Method. 53 *Geomechanics Colloquium: Schubert (Ed) : Schubert (Ed)* .
- Hardiyatmo, H. C. (2002). Mekanika Tanah I. In *Gadjah Mada University Press* (Edisi Ketu). Gadjah Mada University Press.
- Hoek, E., & Brown, E. T. (1997a). Practical Estimates of Rock Mass Strength. *Int. J. Rock Mech. Mining Sci.*, 34 (8), 1165–1186.
- Hoek, E., & Brown, E. T. (1997b). Practical Estimates of Rock Mass Strength. *International Journal Rock Mechanics Mining Science*, 34, 1165–1186.
- Hoek, E., Carter, T. G., & Diederichs, M. S. (2013). Quantification of the Geological Strength Index Chart. *47th US Rock Mechanics / Geomechanics Symposium 2013*, 3, 1757–1764.
- Hoek, E., & Diederichs, M. S. (2006). Empirical Estimation of Rock Mass Modulus. *International Journal Of Rock Mechanics And Mining Sciences*, 13.
- Hoek, E., Kaiser, P. K., & Bawden, W. F. (1995). *Support of Underground Excavations in Hard Rock*.
- Hoek, E., Marinos, P., & 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*, 57(2). <https://doi.org/10.1007/s100640050031>

- ISRM. (1978). Suggested Methods for The Quantitative Description of Discontinuities in Rock Masses: International Society for Rock Mechanics. *International Journal of Rock Mechanics and Mining Science & Geomechanics*.
- Karnawati, D. (2005). *Gerakan Massa Tanah di Indonesia dan Upaya Penanggulangannya*. Jurusan Teknik Geologi Fakultas Teknik Universitas Gadjah Mada.
- Kikuchi, K., Saito, K., & Kusonoki, K. I. (1982). Geotechnically integrated evaluation on the stability of dam foundation rocks. *14th International Congress on Large Dams*, 49–74.
- Marinos, P., & Hoek, E. (2000). GSI: A Geologically Friendly Tool for Rock Mass Strength Estimation. *ISRM International Symposium 2000*, 19–24.
- Moreno, T. (1982). Comparison and Application of the Geomechanics Classification Schemes in Tunnel Construction. *Tunnelling, Institution of Mining and Metallurgy*.
- Nguyen, V. M., & Nguyen, Q. P. (2015). Analytical Solution for Estimating The Stand-up Time of The Rock Mass Surrounding Tunnel. In *Journal of Tunnelling and Underground Space Technology*. Elsevier.
- Nugroho, W. K. (2020). *Evaluasi Kondisi Geologi Teknik dan Analisis Kestabilan Terowongan Pengelak Bendungan Pamukkulu Provinsi Sulawesi Selatan*. Universitas Gadjah Mada.
- Olalla, C. (2014). *Relationship between RMRb and GSI based on in situ data*. <https://doi.org/10.13140/2.1.1813.3768>
- Osgui, R., & Unal, E. (2005). Underground Space Use: Analysis of the Past and Lessons for the Future. *The International World Tunnel Congress and the 31st ITA General Assembly*, 291–296.
- Palmstrom, A. (2001). *Measurement And Characterization Of Rock Mass Jointing*.
- Palmstrom, 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>

- 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>
- Pettijohn, F. J. (1975). *Sedimentary Rocks*. Harper & Row Publishers.
- Pramono, R. (2021). Numerical evaluation of support design: A case study Jakarta – Bandung, Indonesia High-Speed Railway Tunnel 7. *ISCEE 2021*.
- Price, D. G. (2009). *Engineering Geology: Principles and Practice* (M. H. de Freitas, Ed.). Springer.
- Priyanto, W. S. (2012). *Atenuasi Respon Hubungannya Dengan Gempa Bumi Subduksi Sumatera* (Skripsi Sains). Fisika UGM Yogyakarta.
- PT. Wahana Adya Konsultan. (2019a). *Gambar Detail Engineering Design Bendung Pengarah Rukoh*.
- PT. Wahana Adya Konsultan. (2019b). *Laporan Geologi/Mekanika Tanah DED Bendung Pengarah Bendungan Tiro*.
- PT. Waskita Karya. (2022). *Laporan Geologi/Mekanika Tanah Investigasi Tambahan Bendung Pengarah Rukoh*.
- Pusat Studi Gempa Nasional. (2017). *Peta Percepatan Puncak di Batuan Dasar untuk Probabilitas Terlampaui 7% dalam 75 Tahun Skala 1:250.000*. Pusat Studi Gempa Nasional, Kementerian Pekerjaan Umum dan Perumahan Rakyat.
- Pusat Vulkanologi dan Mitigasi Bencana Geologi. (2009). *Peta Kerentanan Gerakan Tanah Pulau Sumatera*. Pusat Vulkanologi dan Mitigasi Bencana Geologi.
- Rutledge, J. C., & Preston, R. L. (1978). Experience with Engineering Classifications of Rock. *International Tunnelling Symposium*.
- Siddique, T., & Khan, E. A. (2019). Stability appraisal of road cut slopes along a strategic transportation route in the Himalayas, Uttarakhand, India. *SN Applied Sciences*, 1, 409.

- Soufi, A., Bahi, L., Ouadif, L., & Kissai, J. E. (2018). Correlation between Rock mass rating, Q-system and Rock mass index based on field data. *MATEC Web of Conferences*, 149, 02030. <https://doi.org/10.1051/mateconf/201814902030>
- Tanaka, H. (1964). *Introduction of geology to civil engineers*.
- 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. I A : Government Printing Office* (The Hague, Ed.).
- van Zuidam, R. A. (1983). *Guide to Geomorphologic Aerial Photographic Interpretation and Mapping*. ITC: Enschede The Netherlands.
- Wesley, L. D. (2017). *Mekanika Tanah*. Penerbit Andi.
- Widjaja, B. (2004). Analisis Batas Untuk Kestabilan Lereng. *Jurnal Teknik Sipil, Vol. 1, No. 1: Bandung, Universitas Katolik Parahyangan*.
- Zhang, Q., Huang, X., Zhu, H., & Li, J. (2018). Quantitative assessments of the correlations between rock mass rating (RMR) and geological strength index (GSI). *Tunnelling and Underground Space Technology*, 83, 73–81.