

REFERENCES

- Aghababaei, M., Behnia, M., & Moradian, O. (2019). Experimental investigation on strength and failure behavior of carbonate rocks under multistage triaxial compression. *International Journal of Rock Mechanics and Mining Sciences*, 123, 104099.
- Al-Ajmi, A. M., & Zimmerman, R. W. (2005). Relation between the Mogi and the Coulomb failure criteria. *International Journal of Rock Mechanics and Mining Sciences*, 42(3), 431-439.
- Al-Maamori, H. M. S., El Naggar, M. H., & Micic, S. (2019). Wetting effects and strength degradation of swelling shale evaluated from multistage triaxial test. *Underground Space*, 4(2), 79-97.
- Amann, F., Kaiser, P., & Button, E. A. (2012). Experimental study of brittle behavior of clay shale in rapid triaxial compression. *Rock Mechanics and Rock Engineering*, 45, 21-33.
- ASTM D7012-14e1 (2014). Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures, ASTM International, West Conshohocken, PA.
- Cain, P., Yuen, C. M., Le Bel, G. R., Crawford, A. M., & Lau, D. H. (1987). Triaxial testing of brittle sandstone using a multiple failure state method. *Geotechnical Testing Journal*, 10(4), 213-217.
- Crawford, A. M., & Wylie, D. A. (1987). A modified multiple failure state triaxial testing method. In *ARMA US Rock Mechanics/Geomechanics Symposium* (pp. 87-133).
- Fuenkajorn, K., Sriapai, T., & Samsri, P. (2012). Effects of loading rate on strength and deformability of Maha Sarakham salt. *Engineering Geology*, 135, 10-23.
- Goodman, R.E. (1970). The deformability of joints, determination of the in situ modulus of deformation of rock. ASTM STP 447, *American Society for Testing and Materials* (pp. 174-196).

- Hamza, O., Stace, R., & Reddish, D. (2005). A study of the effect of strain rate on stiffness and strength in silty mudstone using multistage triaxial testing. *Post-Mining 2005* (pp. 16-17).
- Hoek, E., & Brown, E.T. (1980). *Underground excavation in rock: Institution of Mining and Metallurgy*.
- Hoek, E., & Brown, E.T. (1997). Practical estimates of rock mass strength. *International Journal of Rock Mechanics and Mining Sciences*, 34(8), 1165–1186.
- Jaeger, J.C., Cook, N.G.W., & Zimmerman, R.W. (2007). *Fundamentals of rock mechanics*. 4th ed. Oxford: Blackweel.
- Kaiser, P. K., & Kim, B. H. (2008). Rock mechanics challenges in underground construction and mining. *Proceedings of the First Southern Hemisphere International Rock Mechanics Symposium* (pp. 23–38). Perth: ACG. doi: 10.36487/ACG_repo/808_83.
- Khair, U., Fahmi, H., Al Hakim, S., & Rahim, R. (2017). Forecasting error calculation with mean absolute deviation and mean absolute percentage error. *Journal of physics: Conference series*, 930(1), 012002.
- Kim, M. M., & Ko, H. Y. (1979). Multistage triaxial testing of rocks. *Geotechnical Testing Journal*, 2(2), 98-105.
- Kovári, K., & Tisa, A. (1975). Multiple failure state and strain controlled triaxial tests. *Rock mechanics*, 7, 17-33.
- Kovari, K., Tisa, A., Einstein, H. H., & Franklin, J. A. (1983). Suggested methods for determining the strength of rock materials in triaxial compression: revised version. *International Journal of Rock Mechanics and Mining Sciences & Geomechanics* [Abstracts]. 20(6), 283-290.
- Melati, S., Wattimena, R. K., Kramadibrata, S., Simangunsong, G. M., & Sianturi, R. G. (2014). Stress paths effects on multistage triaxial test. *ISRM International Symposium-Asian Rock Mechanics Symposium* (pp. ISRM-ARMS8).

- Minaeian, V., Dewhurst, D. N., & Rasouli, V. (2020). An investigation on failure behaviour of a porous sandstone using single-stage and multi-stage true triaxial stress tests. *Rock Mechanics and Rock Engineering*, 53, 3543-3562.
- Prayanto, D. T. A., Nurhandoko, E. B. B., & Sunardi, E. (2022). Measurement of multi-stage triaxial compression test and static elastic parameters of shale samples from the Talangakar formation for a feasibility study of shale gas in the South Palembang sub-basin, South Sumatra. *Journal of Physics: Conference Series*, 2243(1), 012020.
- Shia, X., Liua, L., Menga, Y., Maoa, S., Wanga, W., Wua, J., & Wena, C. (2016). Correction model for strength parameters of a multistage triaxial compression test on sandstone. *Proceedings of the First Southern Hemisphere International Rock Mechanics Symposium* (pp. ISRM-ARMS9).
- Thaweeboon, S., Dasri, R., Sartkaew, S., & Fuenkajorn, K. (2017). Strength and deformability of small-scale rock mass models under large confinements. *Bulletin of Engineering Geology and the Environment*, 76, 1129-1141.
- Tsoi, P. A., & Homenok, I. P. (2017). Study of deformation-strength properties of sandstone under multistage triaxial compression. *Journal of Physics: Conference Series*, 894(1), 012104.
- Venter, J., Purvis, C., & Hamman, J. (2016). Hoek–Brown mi estimation a comparison of multistage triaxial with single stage triaxial testing. *Proceedings of the First Asia Pacific Slope Stability in Mining Conference*. Australian Centre for Geomechanics (pp. 289-299). Perth: ACG. doi: 10.36487/ACG_rep/1604_15_Venter.
- Vergara, M. R., Kudella, P., & Triantafyllidis, T. (2015). Large scale tests on jointed and bedded rocks under multi-stage triaxial compression and direct shear. *Rock Mechanics and Rock Engineering*, 48, 75-92.
- Wang, G., Feng, X. T., Yang, C., Han, Q., & Kong, R. (2022). Experimental study of the mechanical characteristics of jinping marble under multi-stage true triaxial compression testing. *Rock Mechanics and Rock Engineering*, 55(2), 953-966.

- Yang, S. Q., Ni, H. M., & Wen, S. (2014). Spatial acoustic emission evolution of red sandstone during multi-stage triaxial deformation. *Journal of Central South University*, 21(8), 3316-3326.
- Yang, S. Q., Tian, W. L., Jing, H. W., Huang, Y. H., Yang, X. X., & Meng, B. (2019). Deformation and damage failure behavior of mudstone specimens under single-stage and multi-stage triaxial compression. *Rock Mechanics and Rock Engineering*, 52, 673-689.
- Yang, S.-Q. (2012). Strength and deformation behavior of red sandstone under multi-stage triaxial compression. *Canadian Geotechnical Journal*, 49(6), 694-709.
- Youn, H., & Tonon, F. (2010). Multi-stage triaxial test on brittle rock. *International Journal of Rock Mechanics and Mining Sciences*, 47(4), 678-684.