

## DAFTAR PUSTAKA

- Aditya, F. F. (2024). *Analisa Pengaruh Pemancangan Fondasi Tiang Terhadap Perilaku Tanah Pasir Dengan Metode Particle Image Velocimetry (PIV)*. Universitas Gadjah Mada.
- Adrian, R. J. (1991). Particle-Imaging Techniques for Experimental Fluid Mechanics. *Annual Review of Fluid Mechanics*, 23(1), 261–304. <https://doi.org/10.1146/annurev.fl.23.010191.001401>
- ASTM International. (1998a). Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions. Dalam *ASTM D 3080-98: Standard Test Method for Direct Shear Test of Soil Under Consolidated and Drained*. ASTM International.
- ASTM International. (1998b). Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock . Dalam *ASTM D 2216-98: Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock*. ASTM International.
- ASTM International. (2000). Standard Test Methods for Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve. Dalam *ASTM D 1140-00: Standard Test Methods for Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve*. ASTM International.
- ASTM International. (2002). Standard Test Methods for Specific Gravity of Soil Solids . Dalam *ASTM D 854-02: Standard Test Methods for Specific Gravity of Soil Solids*. ASTM International.
- ASTM International. (2007). Standard Test Method for Particle-Size Analysis of Soils . Dalam *ASTM D422-63: Standard test method for particle-size analysis of soils*. ASTM International.
- Baba, K., Bahi, L., Ouadif, L., & Akhssas, A. (2012). Slope Stability Evaluations by Limit Equilibrium and Finite Element Methods Applied to a Railway in the Moroccan Rif. *Open Journal of Civil Engineering*, 02(01), 27–32. <https://doi.org/10.4236/ojce.2012.21005>
- Bligh, R. P., Briaud, J.-L., Kim, K. M., & Abu-Odeh, A. (2010). *Design of Roadside Barrier Systems Placed on MSE Retaining Walls*. Transportation Research Board. <https://doi.org/10.17226/22924>

- Block, A. (t.t.). *Internal Compound Stability Analysis*.
- Chikute, G. C., & Sonar, I. P. (2019). Failures of Gabion Walls. *International Journal of Innovative Technology and Exploring Engineering*, 8(11), 1384–1390. <https://doi.org/10.35940/ijitee.J9731.0981119>
- Choi, H. T., Jeong, Y.-H., & Park, J.-H. (2012). Slope Stability Analysis of New Gabion Wall System with Vegetation Base Materials for Stream Bank Stability and Rehabilitation. *Journal of Korean Society of Forest Science*, 101(1), 130–137.
- Concrete Masonry & Hardscapes Association. (2010). *SEISMIC DESIGN OF SEGMENTAL RETAINING WALLS*.
- Connor, J. J., & Faraji, S. (2013). Vertical Retaining Wall Structures. Dalam *Fundamentals of Structural Engineering* (hlm. 599–632). Springer New York. [https://doi.org/10.1007/978-1-4614-3262-3\\_8](https://doi.org/10.1007/978-1-4614-3262-3_8)
- Damians, I. P., Bathurst, R. J., Olivella, S., Lloret, A., & Josa, A. (2021). 3D modelling of strip reinforced MSE walls. *Acta Geotechnica*, 16(3), 711–730. <https://doi.org/10.1007/s11440-020-01057-w>
- Diwalkar, A. (2020). Analysis and Design of Retaining Wall: A Review. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3648731>
- Dobie, M. (2003). *The internal stability of reinforced soil retaining walls, including connection strength for modular block systems and seismic loading*. <https://www.researchgate.net/publication/274393048>
- Elias, V., Christopher, B. R. ;, & Berg, R. R. (2009). *Mechanically Stabilized Earth Walls and Reinforced Soil Slopes - Design and Construction Guidelines*. <https://www.fhwa.dot.gov/engineering/geotech/pubs/nhi10024/nhi10024.pdf>
- Ferdous, W., Bai, Y., Ngo, T. D., Manalo, A., & Mendis, P. (2019). New advancements, challenges and opportunities of multi-storey modular buildings – A state-of-the-art review. *Engineering Structures*, 183, 883–893. <https://doi.org/10.1016/j.engstruct.2019.01.061>
- Fu, Y., Chen, J., & Lu, W. (2024). Human-robot collaboration for modular construction manufacturing: Review of academic research. *Automation in Construction*, 158, 105196. <https://doi.org/10.1016/j.autcon.2023.105196>

- Gao, L., Wang, N., Rao, F., & Yan, Z. (2021). Structural form and main technical requirements of Gabion retaining wall. *Journal of Physics: Conference Series*, 2044(1), 012172. <https://doi.org/10.1088/1742-6596/2044/1/012172>
- Hamza, S., Kadhim, S., & Al-Wakel, S. (2021). The Behavior of Piles Installed in Medium Dense Sand Within MSE Wall System. *Engineering and Technology Journal*, 39(8), 1249–1256. <https://doi.org/10.30684/etj.v39i8.1848>
- Hardiyatmo, H. C. (2010). *Analisis dan Perancangan Fondasi Bagian II*.
- Hardiyatmo, H. C. (2011). *Analisis dan Perancangan Fondasi Bagian I*.
- Hazhiah, A. U., Purnama, A. Y., & Latif, D. O. (2022). Analisis Numerik Perilaku Geser Sistem Sambungan pada Blok Batu Bangunan Bersejarah Shear Behavior of Heritage Building's Stone Block Interconnection System using Three-Dimensional Numerical Analysis. Dalam *Jurnal Manajemen Aset Infrastruktur & Fasilitas* (Vol. 6, Nomor 1). <https://doi.org/http://dx.doi.org/10.12962%2Fj26151847.v6i1.20220>
- Hořínková, D. (2021). Advantages and Disadvantages of Modular Construction, including Environmental Impacts. *IOP Conference Series: Materials Science and Engineering*, 1203(3), 032002. <https://doi.org/10.1088/1757-899X/1203/3/032002>
- Japanese Geotechnical Society. (2020). Test Method for Minimum and Maximum Densities of Sands (JIS A1224). Dalam *JGS 0161: Test Methods for Minimum and Maximum Densities of Sands*. Japanese Geotechnical Society.
- Kang, S., Zhao, Q., & Liu, C. (2020). Calculative Width of Pile Foundation on Slope Based on Particle Image Velocimetry (PIV). *Advances in Civil Engineering*, 2020(1). <https://doi.org/10.1155/2020/7084791>
- Keaton, J. R., Perry, D. L., & Kim, P. W. (2011). Repair of Storm-Damaged Slopes, Lower Mount Wilson Road, Los Angeles County, California. *Transportation Research Record: Journal of the Transportation Research Board*, 2204(1), 242–250. <https://doi.org/10.3141/2204-30>
- Ko, Y., Seo, S., Jin, T., & Chung, M. (2021). Feasibility evaluation of the 3D-DIC non contact measurement system using small-scaled model test of earth retaining wall. *International Journal of Geo-Engineering*, 12(1), 12. <https://doi.org/10.1186/s40703-021-00141-8>

- Koudje, B., & Adjovi, E. (2025). Numerical Simulation of a Shear Wall Model in Interlocking Masonry with Dry Vertical and Horizontal Joints in Compressed Earth Blocks. *Buildings*, 15(4), 627. <https://doi.org/10.3390/buildings15040627>
- Li, P., & Song, X. (2012). Study on Soil Pressure of High Fill Retaining Wall in Construction Stage. *Applied Mechanics and Materials*, 204–208, 718–721. <https://doi.org/10.4028/www.scientific.net/AMM.204-208.718>
- Li, S., Cai, X., Jing, L., Xu, H., Huang, X., & Zhu, C. (2021). Lateral displacement control of modular-block reinforced soil retaining walls under horizontal seismic loading. *Soil Dynamics and Earthquake Engineering*, 141, 106485. <https://doi.org/10.1016/j.soildyn.2020.106485>
- Li, X., Long, J., Guo, S., Yang, M., Zhang, T., An, C., & Pei, Y. (2022). Experimental study on FBG sensing technology-based stress monitoring at the corners of reinforced soil retaining walls. *Science Progress*, 105(4). <https://doi.org/10.1177/00368504221135380>
- Mulyono, T. (2017). *Klasifikasi tanah*. <https://www.researchgate.net/publication/359544629>
- Noor, A. M. (2021). Study of Behavior Mechanically Stabilized Earth Wall (MSE-WALL) with Sand on the Model Test in the Laboratory. *CERUCUK*, 5(2), 87. <https://doi.org/10.20527/crc.v5i2.4315>
- Olearczyk, J., Al-Hussein, M., & Bouferguène, A. (2014). Evolution of the crane selection and on-site utilization process for modular construction multilifts. *Automation in Construction*, 43, 59–72. <https://doi.org/10.1016/j.autcon.2014.03.015>
- Patuti, I. M., Rifa'i, A., Suryolelono, K. B., & Siswosukarto, S. (2018). Model of Timber Crib Walls Using Counterweight in Bone Bolango Regency Gorontalo Province Indonesia. *International Review of Civil Engineering (IRECE)*, 9(3), 98. <https://doi.org/10.15866/irece.v9i3.14050>
- Peraturan Presiden (Perpres) Nomor 12 Tahun 2025 tentang Rencana Pembangunan Jangka Menengah Nasional Tahun 2025 - 2029, Pub. L. No. 12, 7 (2025). <https://jdih.setneg.go.id/>

- Pons, J. J., Penadés-Plà, V., Yepes, V., & Martí, J. V. (2018). Life cycle assessment of earth-retaining walls: An environmental comparison. *Journal of Cleaner Production*, *192*, 411–420. <https://doi.org/10.1016/j.jclepro.2018.04.268>
- PT. Sika Indonesia Head Office and Manufacturing. (2025). *Lembar Data Teknis Sikacrete-08 SCC ID*. <https://idn.sika.com/dam/dms/id01/5/sikacrete-08-sccid.pdf>
- Pujiastuti, H. (2009). Efek Kerapatan Relatif (Dr) Terhadap Daya Dukung Fondasi Dangkal pada Tanah Pasiran dengan Beban Sentris. *Jurnal Teknik Sipil*, *16*(3), 113. <https://doi.org/10.5614/jts.2009.16.3.1>
- Purnama, A. Y., Latif, D. O., Hazhiyah, A. U., & Nasukha, B. I. (2022). Simulasi Pengaruh Bentuk Sambungan Block Interlocking Pada Sistem Dinding Penahan Tanah Modular. *Prosiding SNTT 2022*, *9*.
- Rohim, H. A. (2023). *Uji Eksperimental Dinding Penahan Tanah Sistem Interlocking Sebagai Upaya Penanganan Kegagalan Lereng*. Universitas Gadjah Mada.
- Shaikh, H. S., Naik, P. D., Talekar, V. V., Gawas, P. D., Dantas, J. M., Sawant, S. S., & Padkil, Y. S. (2023). Analysis And Design Of A Retaining Wall. *International Research Journal of Modernization in Engineering Technology and Science*. <https://doi.org/10.56726/IRJMETS43900>
- Shields, H., & Anderson, S. (2023). Types of retaining walls. Dalam *ICE Manual of Geotechnical Engineering, Second edition, Volume II* (hlm. 1041–1050). Emerald Publishing Limited. <https://doi.org/10.1680/icemge.66830.1041>
- Sun, Y., Wang, J., Wu, J., Shi, W., Ji, D., Wang, X., & Zhao, X. (2020). Constraints Hindering the Development of High-Rise Modular Buildings. *Applied Sciences*, *10*(20), 7159. <https://doi.org/10.3390/app10207159>
- Trenter, N. A. (2004). Approaches to the design of cantilever retaining walls. *Proceedings of the Institution of Civil Engineers - Geotechnical Engineering*, *157*(1), 27–35. <https://doi.org/10.1680/geng.2004.157.1.27>
- Wang, Z., Lai, Z., Zhao, L., Lai, K., & Pan, L. (2022). Mesoscopic Failure Behavior of Strip Footing on Geosynthetic-Reinforced Granular Soil Foundations Using PIV Technology. *Sustainability*, *14*(24), 16583. <https://doi.org/10.3390/su142416583>

- White, D. J., & Take, W. A. (2002). *GeoPIV: Particle Image Velocimetry (PIV) software for use in geotechnical testing*.
- White, D. J., Take, W. A., & Bolton, M. D. (2003). Soil deformation measurement using particle image velocimetry (PIV) and photogrammetry. *Geotechnique* 53, No. 7, 619–631.
- Yang, M., & Deng, B. (2019). Simplified Method for Calculating the Active Earth Pressure on Retaining Walls of Narrow Backfill Width Based on DEM Analysis. *Advances in Civil Engineering*, 2019(1). <https://doi.org/10.1155/2019/1507825>
- Yang, M., Wang, Y., Xiao, S., Guo, H., & Dong, J. (2024). Mechanical characteristics of counterfort-relief shelf composite retaining wall. *Environmental Earth Sciences*, 83(1), 23. <https://doi.org/10.1007/s12665-023-11322-2>
- Zarkiewicz, K. (2019). Laboratory Experiment of Soil Vertical Displacement Measurement Near an Axially Loaded Pile. *IOP Conference Series: Materials Science and Engineering*, 603(3), 032012. <https://doi.org/10.1088/1757-899X/603/3/032012>
- Zhang, Z., Rahardjo, H., Yan, Z., & Yin, X. (2024). 2D full-field deformation measurement at grain level using optical flow with deep networks. *Acta Geotechnica*, 19(8), 5383–5399. <https://doi.org/10.1007/s11440-024-02242-x>