

DAFTAR PUSTAKA

- Alvioli, M., Marchesini, I., Reichenbach, P., Rossi, M., Ardizzzone, F., Fiorucci, F., & Guzzetti, F. (2016). Automatic delineation of geomorphological slope units with r.slopeunits v1.0 and their optimization for landslide susceptibility modeling. *Geoscientific Model Development*, 9(11), 3975–3991.
<https://doi.org/10.5194/gmd-9-3975-2016>
- Azizah, C., Pawitan, H., Dasanto, B. D., Ridwansyah, I., & Taufik, M. (2019). Sifat Fisik Tanah dan Hubungannya dengan Kapasitas Infiltrasi DAS Tamiang. *Jurnal Tanah Dan Iklim*, 43(2), 167–173.
- Bowles, J. E. (1989). *Sifat-Sifat Fisik & Geoteknis Tanah*. Erlangga.
- BPBD. (2021). *Sebaran Kejadian Bencana di Kabupaten Magelang Tahun 2021*.
- BPS. (2022). *Kecamatan Salaman Dalam Angka 2022*.
- Broms, B. B., & Wong, K. S. (2000). *LANDSLIDES* (Foundation). Springer.
https://doi.org/https://doi.org/10.1007/978-1-4615-3928-5_11
- Brunsdon, D., & Prior, D. . (1984). *Slope Instability*. John Wiley & Sons.
- Candra, A. I., Anam, S., Mahardana, Z. B., & Cahyono, A. D. (2018). Studi Kasus Stabilitas Struktur Tanah Lempung Pada Jalan Totok Kerot Kediri Menggunakan Limbah Kertas. *UKaRsT*, 2(2), 88–97.
<https://doi.org/10.30737/ukarst.v2i2.255>
- Catani, F., Segoni, S., & Falorni, G. (2010). An Empirical Geomorphology-Based Approach to the Spatial Prediction of Soil Thickness at Catchment Scale. *Water Resources Research*, 46(5), 1–15.
<https://doi.org/10.1029/2008WR007450>
- Cha, K. S., & Kim, T. H. (2011). Evaluation of slope stability with topography and slope stability analysis method. *KSCE Journal of Civil Engineering*, 15(2), 251–256. <https://doi.org/10.1007/s12205-011-0930-5>
- Chen, Y., Lai, Y., Zhang, M., Li, H., & Zhang, Y. (2023). Upper-Bound Optimized Solution of Unsaturated Soil Slope Stability Under Steady and Unsteady Flows. *Computers and Geotechnics*, 164(September), 1–16.
<https://doi.org/10.1016/j.compgeo.2023.105815>

- Chiba, T., & Hasi, B. (2016). Ground Surface Visualization Using Red Relief Image Map for A Variety of Map Scales. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 41(B2), 393–397. <https://doi.org/10.5194/isprsarchives-XLI-B2-393-2016>
- Chiba, T., Kaneta, S., & Suzuki, Y. (2008). Red Relief Image Map: New Visualization Method for Three Dimensional Data. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 37(B2), 1071–1076.
- Choo, H., Min, D. H., Sung, J. H., & Yoon, H. K. (2019). Sensitivities of Input Parameters for Predicting Stability of Soil Slope. *Bulletin of Engineering Geology and the Environment*, 78(8), 5671–5685. <https://doi.org/10.1007/s10064-019-01503-4>
- Cokca, E., Erol, O., & Armangil, F. (2004). Effects of Compaction Moisture Content on the Shear Strength of An Unsaturated Clay. *Geotechnical and Geological Engineering*, 22(2), 285–297. <https://doi.org/10.1023/B:GEGE.0000018349.40866.3e>
- Crosta, G. (1998). Regionalization of Rainfall Thresholds: An Aid to Landslide Hazard Evaluation. *Environmental Geology*, 35(2–3), 131–145. <https://doi.org/10.1007/s002540050300>
- Cruden, D. ., & Varnes, D. . (1996). Landslide Type and Processes. In *Landslides - Investigation and Mitigation* (Turner AK, pp. 36–75). National Academy Press.
- Dafalla, M. A. (2013). Effects of Clay and Moisture Content on Direct Shear Tests for Clay-Sand Mixtures. *Advances in Materials Science and Engineering*, 2013. <https://doi.org/10.1155/2013/562726>
- Dai, F. C., Lee, C. F., & Ngai, Y. Y. (2002). Landslide Risk Assessment and Management: An Overview. *Engineering Geology*, 64(1), 65–87.
- Darwis, H. (2018). *Dasar-Dasar Mekanika Tanah*. Pustaka AQ.
- Das, B. (1985). *Principles of Geotechnical Engineering* (3rd ed.). PWS Publishing Company.

- Das, B. (1995). *Mekanika Tanah I*. Erlangga.
- De Smedt, F., & Thanth, L. N. (2014). Slope Stability Analysis Using A Physically Based Model: A Case Study from A Luoi District in Thua Thien-Hue Province, Vietnam. *Landslides*, 11, 897–907.
<https://doi.org/10.1007/s10346-013-0437-x>
- Di Matteo, L., Valigi, D., & Ricco, R. (2013). Laboratory Shear Strength Parameters of Cohesive Soils: Variability and Potential Effects on Slope Stability. *Bulletin of Engineering Geology and the Environment*, 72(1), 101–106. <https://doi.org/10.1007/s10064-013-0459-6>
- Dongare, V. T., Reddy, G. P. O., Maji, A. K., & Ramteke, I. K. (2013). Characterization of Landforms and Soils in Complex Geological Formations- A Remote Sensing and GIS Approach. *Journal of the Indian Society of Remote Sensing*, 41(1), 91–104. <https://doi.org/10.1007/s12524-011-0195-y>
- Duncan, J. . (1996). State of the Art: Limit Equilibrium and Finite-Element Analysis of Slopes. *Journal of Geotech Geoenviron*, 122(7), 577–596.
- El Hariri, A., Elawad Eltayeb Ahmed, A., & Kiss, P. (2023). Review on Soil Shear Strength with Loam Sand Soil Results Using Direct Shear Test. *Journal of Terramechanics*, 107, 47–59.
<https://doi.org/10.1016/j.jterra.2023.03.003>
- Erener, A., & Du, H. S. B. (2012). *Landslide Susceptibility Assessment: What Are the Effects of Mapping Unit and Mapping Method?* 66, 859–877.
<https://doi.org/10.1007/s12665-011-1297-0>
- Fariz, T. . (2022). Bentuk Pemanfaatan Lahan di Wilayah Rawan Longsor di Sub DAS Bompon, Kabupaten Magelang. In *Kajian Etnosains dan Etnoekologi dalam Budaya Jawa* (pp. 38–48). Pustaka Rumah C1nta.
- Forbes, T. ., Rosster, D., & Van Wambeke, A. (1987). *Guidelines for Evaluating the Adequacy of Soil Resource Inventories*. Cornell University Department of Agronomy.
- Forrest, W. S., & Orr, T. L. . (2010). Reliability of Shallow Foundations designed to Eurocode 7. *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, 4(4), 186–207.

- Foth, H. D. (1990). *Fundamentals of Soil Science* (8th ed.). John Wiley & Sons.
- Fu, Z., Li, Z., Cai, C., Shi, Z., Xu, Q., & Wang, X. (2011). Soil Thickness Effect on Hydrological and Erosion Characteristics Under Sloping Lands: A Hydropedological Perspective. *Geoderma*, 167–168, 41–53.
<https://doi.org/10.1016/j.geoderma.2011.08.013>
- Griffiths, D. V., Huang, J., & Fenton, G. A. (2011). Probabilistic Infinite Slope Analysis. *Computers and Geotechnics*, 38(4), 577–584.
<https://doi.org/10.1016/j.compgeo.2011.03.006>
- Gustavsson, M., Kolstrup, E., & Seijmonsbergen, A. C. (2006). A new symbol-and-GIS based detailed geomorphological mapping system: Renewal of a scientific discipline for understanding landscape development. *Geomorphology*, 77(1–2), 90–111.
<https://doi.org/10.1016/j.geomorph.2006.01.026>
- Hardiyatmo, H. C. (1996). *Teknik Fondasi 1 Edisi Kedua*. Gramedia Pustaka Utama.
- Haris, V. T., Studi, P., Sipil, T., Lancang, U., Lubis, F., Studi, P., Sipil, T., Lancang, U., Studi, P., Sipil, T., Lancang, U., & Geser, S. (2018). Nilai Kohesi dan Sudut Geser Tanah pada Akses Gerbang Selatan Universitas Lancang Kuning. *Jurnal Teknik Sipil*, 4(2), 123–130.
- Heimsath, A. ., Dietrich, W. ., Nishiizumi, K., & Finkel, R. . (2001). Stochastic Processes of Soil Production and Transport: Erosion Rates, Topographic Variation and Cosmogenic Nuclides in the Oregon Coast Range. *Earth Surface Process Land*, 26, 531–552.
- Hengl, T., & MacMillan, R. A. (2019). *Predictive Soil Mapping with R*. OpenGeoHub Foundation. www.soilmapper.org
- Hidayat, R. (2019). Identifikasi Zona Longsor Secara Geologi Dan Geofisika. *Seminar Nasional Geomatika*, 3, 1239. <https://doi.org/10.24895/sng.2018.3-0.1049>
- Hidayat, W. (2019). *Longsor, Jalan Utama Magelang Purworejo Tertutup*. Berita Magelang. <https://www.beritamagelang.id/akibat-hujan-deras-jalan-utama-magelang-purworejo-tertutup-tanah-longsor>

- Hoeg, K. (2013). Slope Stability. In *Encyclopedia of Natural Hazards* (pp. 919–924). Springer.
- Indrawahyuni, H., Munawir, A., & Damayanti, I. (2009). Pengaruh Variasi Kepadatan Pada Permodelan Fisik Menggunakan Tanah Pasir Berlempung Terhadap Stabilitas Lereng. *Jurnal Rekayasa Sipil*, 3(3), 192–208.
- Isneni, A. N., Putranto, T. T., & Trisnawati, D. (2020). Analisis Sebaran Daerah Rawan Longsor Menggunakan Remote Sensing dan Analytical Hierarchy Process (AHP) di Kabupaten Magelang Provinsi Jawa Tengah. *Jurnal Geosains Dan Teknologi*, 3(3), 149–160.
<https://doi.org/10.14710/jgt.3.3.2020.149-160>
- Jackson, L. E. (2013). Slide and Slump. In *Encyclopedia of Natural Hazards* (pp. 913–918). Geological Survey of Canada.
- Johnson, D. L., Domier, J. E. J., & Johnson, D. N. (2005). Animating the Biodynamics of Soil Thickness Using Process Vector Analysis: A Dynamic Denudation Approach to Soil Formation. *Geomorphology*, 67(1-2 SPEC. ISS.), 23–46. <https://doi.org/10.1016/j.geomorph.2004.08.014>
- Kalman, H., & Portnikov, D. (2021). Analyzing Bulk Density and Void Fraction: B. Effect if Moisture Content and Compression Pressure. *Powder Technology*, 381, 285–297. <https://doi.org/10.1016/j.powtec.2020.12.019>
- Kamal, A. S. M., & Midorikawa, S. (2004). GIS-based Geomorphological Mapping Using Remote Sensing Data and Supplementary Geoinformation. A Case Study of the Dhaka City Area, Bangladesh. *International Journal of Applied Earth Observation and Geoinformation*, 6(2), 111–125.
<https://doi.org/10.1016/j.jag.2004.08.003>
- Karenina, A., Rustiadi, E., & Syaikat, Y. (2016). Strategi Perlindungan Lahan Pertanian Pangan Berkelanjutan Di Kabupaten Tangerang. *Jurnal Manajemen Pembangunan Daerah*, 8(2), 76–80.
https://doi.org/10.29244/jurnal_mpd.v8i2.24827
- Keller, E. A. (2000). *Environmental Geology* (8th Editio). Prentice Hall.
- Khoiriyah, H. (2016). Analisis Risiko Bencana Gerakan Tanah di Kecamatan Salaman Kabupaten Magelang. *Jurnal Geo Educasia*, 1(9), 1–28.

- Kim, J., Salgado, R., & Lee, J. (2002). Stability Analysis of Complex Soil Slopes Using Limit Analysis. *Journal of Geotechnical and Geoenvironmental Engineering*, 128, 546–557.
- Kim, Y., Satyanaga, A., Rahardjo, H., Park, H., & Sham, A. W. L. (2021). Estimation of Effective Cohesion Using Artificial Neural Networks Based on Index Soil Properties: A Singapore Case. *Engineering Geology*, 289(July 2020), 106163. <https://doi.org/10.1016/j.enggeo.2021.106163>
- Korah, T., Turangan, A. E., & Sarajar, N. (2014). Analisis Kestabilan Lereng dengan Metode Janbu (Studi Kasus: Kawasan Citraland). *Jurnal Sipil Statik*, 2(1), 22–28.
- Kumar, M., Rana, S., Pant, P. D., & Patel, R. C. (2017). Slope Stability Analysis of Balia Nala Landslide, Kumaun Lesser Himalaya, Nainital, Uttarakhand, India. *Journal of Rock Mechanics and Geotechnical Engineering*, 9(1), 150–158. <https://doi.org/10.1016/j.jrmge.2016.05.009>
- Kurnia, U., Agus, F., Adimiharja, A., & Dariah, A. (2006). *Sifat Fisik Tanah dan Metode Analisisnya*. Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian.
- Li, S. H., Luo, X. H., & Wu, L. Z. (2021). An Improved Whale Optimization Algorithm for Locating Critical Slip Surface of Slopes. *Advances in Engineering Software*, 157–158, 1–15. <https://doi.org/10.1016/j.advengsoft.2021.103009>
- Lionel, E., & Jackson, J. (2013). Slide and Slump. In *Encyclopedia of Natural Hazards* (pp. 913–919). Springer.
- Lu, N., & Godt, J. (2008). Infinite Slope Stability Under Steady Unsaturated Seepage Conditions. *Water Resources Research*, 44(11). <https://doi.org/10.1029/2008WR006976>
- Lu, Y., Liu, F., Zhao, Y. guo, Song, X. dong, & Zhang, G. lin. (2019). An Integrated Method of Selecting Environmental Covariates for Predictive Soil Depth Mapping. *Journal of Integrative Agriculture*, 18(2), 301–315. [https://doi.org/10.1016/S2095-3119\(18\)61936-7](https://doi.org/10.1016/S2095-3119(18)61936-7)
- Luo, Z., Lian, J., Nie, Y., Zhang, W., Wang, F., Huang, L., & Chen, H. (2024).

- Improving Soil Thickness Estimations and its Spatial Pattern on Hillslopes in Karst Forests along Latitudinal Gradients. *Geoderma*, 441, 1–9.
<https://doi.org/10.1016/j.geoderma.2023.116749>
- Mainwirth, J., & Mulligan, M. (2005). *Environmental Modelling*. John Wiley & Sons.
- Mase, L. Z., Perdana, A., Hardiansyah, Amri, K., & Bahri, S. (2022). A Case Study of Slope Stability Improvement in Central Bengkulu Landslide in Indonesia. *Transportation Infrastructure Geotechnology*, 9(4), 442–466.
<https://doi.org/10.1007/s40515-021-00186-3>
- Masson, D. G., Wynn, R. B., & Talling, P. J. (2010). Large landslides on passive continental margins: Processes, hypotheses and outstanding questions. *Submarine Mass Movements and Their Consequences - 4th International Symposium*, 28, 153–165. https://doi.org/10.1007/978-90-481-3071-9_13
- Matteo, L. Di, Brunelli, S., & Capponi, E. (2008). Strength Parameters of Compacted Cohesive Soils: Analysis of Sandy-Clayey Soils of the “Lisciani Di Pantalla” (Todi - Central Italy). *Journal of Engineering Geology and Environment*, 1, 25–32. <https://doi.org/10.4408/IJEGE.2008-01.O-02>
- Mergili, M., Marchesini, I., Rossi, M., Guzzetti, F., & Fellin, W. (2014). Spatially Distributed Three-Dimensional Slope Stability Modelling in a Raster GIS. *Geomorphology*, 206, 178–195.
<https://doi.org/10.1016/j.geomorph.2013.10.008>
- Metya, S., Mukhopadhyay, T., Adhikari, S., & Bhattacharya, G. (2017). System Reliability Analysis of Soil Slopes with General Slip Surfaces Using Multivariate Adaptive Regression Splines. *Computers and Geotechnics*, 87, 212–228. <https://doi.org/10.1016/j.compgeo.2017.02.017>
- Montrasio, L., Valentino, R., & Meisina, C. (2018). Soil Saturation and Stability Analysis of a Test Site Slope Using the Shallow Landslide Instability Prediction (SLIP) Model. *Geotechnical and Geological Engineering*, 36(4), 2331–2342. <https://doi.org/10.1007/s10706-018-0465-3>
- Morgan, R. P. ., & Rickson, R. . (1995). *Slope Stabilization and Erosion Control: A Bioengineering Approach*. E & FN SPON An imprint of Chapman & Hall.

- Mouazen, A. M., Ramon, H., & Baerdemaeker, J. De. (2002). Effects of Bulk Density and Moisture Content on Selected Mechanical Properties of Sandy Loam Soil. *Biosystems Engineering*, 83(2), 217–224.
<https://doi.org/10.1006/bioe.2002.0103>
- Nie, X., Chen, K., Zou, D., Kong, X., Liu, J., & Qu, Y. (2022). Slope Stability Analysis Based on SBFEM and Multistage Polytree-Based Refinement Algorithms. *Computers and Geotechnics*, 149, 1–15.
<https://doi.org/10.1016/j.compgeo.2022.104861>
- Nierwinski, H. P., Pfitscher, R. J., Barra, B. S., Menegaz, T., & Odebrecht, E. (2023). A Practical Approach for Soil Unit Weight Estimation using Artificial Neural Networks. *Journal of South American Earth Sciences*, 131(August), 104648. <https://doi.org/10.1016/j.jsames.2023.104648>
- Norris, J. E., Stokes, A., Mickovski, S. B., Cammeraat, E., Van Beek, R., Nicoll, B. C., & Achim, A. (2008). *Slope Stability and Erosion Control: Ecotechnological Solutions*. Springer.
- Nuur, M. F., Purwanto., & Raharjo, S. (2015). Geologi dan Kendali Sifat Fisik - Mekanik Tanah Terhadap Potensi Bencana Gerakan Tanah Daerah Tanjunganom, Kecamatan Salaman, Kabupaten Magelang, Jawa Tengah. *Jurnal Ilmiah Geologi Pangea*, 2(2), 51–67.
- Osman, N., & Barakbah, S. S. (2006). Parameters to Predict Slope Stability - Soil Water and Root Profiles. *Ecological Engineering*, 28(1), 90–95.
<https://doi.org/10.1016/j.ecoleng.2006.04.004>
- Pangemanan, V. G. M., Turangan, A. E., & Sompie, O. B. A. (2014). Analisis Kestabilan Lereng Dengan Metode Fellenius. *Jurnal Sipil Statik*, 2(1), 37–46.
- Park, S. J., McSweeney, K. K., & Lowery, B. B. (2001). Identification of The Spatial Distribution of Soils Using A Process-Based Terrain Characterization. *Geoderma*, 103(3–4), 249–272.
[https://doi.org/10.1016/S0016-7061\(01\)00042-8](https://doi.org/10.1016/S0016-7061(01)00042-8)
- Pelletier, J. D., & Rasmussen, C. (2009). Geomorphically Based Predictive Mapping of Soil Thickness in Upland Watersheds. *Water Resources*

- Research*, 45(9), 1–15. <https://doi.org/10.1029/2008WR007319>
- Priambodo, B. A. A. (2020). Revitalisasi Pasar Tradisional Salaman Di Kecamatan Salaman, Kabupaten Magelang, Jawa Tengah Dengan Pendekatan Arsitektur Ekologis [Universitas Atma Jaya Yogyakarta]. In *Skripsi*. <http://e-journal.uajy.ac.id/id/eprint/23214%0Ahttp://e-journal.uajy.ac.id/23214/1/1501159401.pdf>
- Putra, H. (2019). *Mekanika Tanah : Parameter dan Prosedur Pengujian* (Issue January 2019). Gre Publishing.
- Qi, X. H., & Li, D. Q. (2018). Effect of Spatial Variability of Shear Strength Parameters on Critical Slip Surface. *Engineering Geology*, 239(November 2017), 41–49. <https://doi.org/10.1016/j.enggeo.2018.03.007>
- Rahardjo, H., Satyanaga, A., Leong, E. C., Ng, Y. S., & Pang, H. T. C. (2012). Variability of Residual Soil Properties. *Engineering Geology*, 141–142, 124–140. <https://doi.org/10.1016/j.enggeo.2012.05.009>
- Ramcharan, A., Hengl, T., Nauman, T., Brungard, C., Waltman, S., Wills, S., & Thompson, J. (2018). Soil Property and Class Maps of the Conterminous United States at 100-Meter Spatial Resolution. *Soil Science Society of America Journal*, 82(1), 186–201. <https://doi.org/10.2136/sssaj2017.04.0122>
- Ray, R. L., & De Smedt, F. (2009). Slope Stability Analysis on A Regional Scale Using GIS: A Case Study from Dhading, Nepal. *Environmental Geology*, 57, 1603–1611. <https://doi.org/10.1007/s00254-008-1435-5>
- Reale, C., Xue, J., Pan, Z., & Gavin, K. (2015). Deterministic and Probabilistic Multi-Modal Analysis of Slope Stability. *Computers and Geotechnics*, 66, 172–179. <https://doi.org/10.1016/j.compgeo.2015.01.017>
- Reichert, J. M., Mentges, M. I., Rodrigues, M. F., Cavalli, J. P., Awe, G. O., & Mentges, L. R. (2018). Compressibility and Elasticity of Subtropical No-Till Soils Varying in Granulometry Organic Matter, Bulk Density and Moisture. *Catena*, 165, 345–357. <https://doi.org/10.1016/j.catena.2018.02.014>
- Reznik, Y. M. (2007). Influence of Physical Properties on Deformation Characteristics of Collapsible Soils. *Engineering Geology*, 92(1–2), 27–37. <https://doi.org/10.1016/j.enggeo.2007.03.001>

- Rivananda. (2023). *Simulasi Runout Longsor Menggunakan Model Gravitational Process Path (GPP) di Ruas Jalan Salaman - Bener Kabupaten Magelang (Tesis)*. <http://etd.repository.ugm.ac.id/>
- Rossi, M., Witt, A., Guzzetti, F., Malamud, B. D., & Peruccacci, S. (2010). Analysis of Historical Landslide Time Series in The Emilia-Romagna Region, Northern Italy. *Earth Surface Processes and Landforms*, 35(10), 1123–1137. <https://doi.org/10.1002/esp.1858>
- Rossiter, D. G., Poggio, L., Beaudette, D., & Libohova, Z. (2022). How Well Does Digital Soil Mapping Represent Soil Geography? An Investigation From The USA. *SOIL*, 8(2), 559–586. <https://doi.org/10.5194/soil-8-559-2022>
- Rumbiak, V., Dwi, Y., Cahyono, G., & Pertambangan, J. T. (2020). Pengaruh Uji Kuat Geser Terhadap Batu Andesit. *Seminar Teknologi Kebumihan Dan Kelautan (SEMITAN II)*, Vol.2, No.1, Juli, 605–609.
- Sadikin, U., & Stella, M. (2004). *Analisis Penambahan Ijuk Sebagai Perkuatan dan Kapur Sebagai Bahan Stabilisator pada Tanah Lempung untuk Subgrade Jalan* [Universitas Islam Indonesia]. <https://dspace.uui.ac.id/handle/123456789/22578>
- Salunkhe, D. P., Bartakke, R. N., Chvan, G., & Kothavale, P. R. (2017). *An Overview on Methods for Slope Stability Analysis*. 6(03), 528–535.
- Samodra, G. (2024). *Teknologi Geospasial Inventarisasi Longsor*. Gadjah Mada University Press.
- Sampaga, Z. (2009). *Laboratorium Geologi Teknik Universitas Padjadjaran*. Laboratorium Geologi Teknik, Fakultas Teknik Geologi, Universitas Padjadjaran.
- Santoso, D. H., Suharwanto, S., & Prasetyo, M. T. (2021). Analisis Kestabilan Lereng dan Pengelolaan Lereng Akibat Penambangan Andesit di Sebagian Kecamatan Bagelan Purworejo. *Jurnal Geografi : Media Informasi Pengembangan Dan Profesi Kegeografian*, 18(1), 46–51. <https://doi.org/10.15294/jg.v18i1.25913>
- Savigear, R. A. . (1965). A Technique of Morphological Mapping. *Annals of The*

- Association of American Geographers*, 55(33), 514–538.
- Segoni, S., Rossi, G., & Catani, F. (2012). Improving Basin Scale Shallow Landslide Modelling using Reliable Soil Thickness Maps. *Natural Hazards*, 61(1), 85–101. <https://doi.org/10.1007/s11069-011-9770-3>
- Shan, J., & Toth, C. K. (2009). *Topographic Laser Ranging and Scanning: Principles and Processing, Second Edition* (2nd ed.). CRC Press.
- Shodiq, M. F. (2006). *Tinjauan Terhadap Distribusi Tegangan pada Tanah Lempung Lunak Dibawah Pondasi Dangkal dengan Pemberian Lapis Pasir* [Universitas Islam Indonesia].
<https://dspace.uui.ac.id/handle/123456789/22972>
- Srivastava, A., Babu, G. L. S., & Haldar, S. (2010). Influence of Spatial Variability of Permeability Property on Steady State Seepage Flow and Slope Stability Analysis. *Engineering Geology*, 110(3–4), 93–101.
<https://doi.org/10.1016/j.enggeo.2009.11.006>
- Staff, S. S. D. (1993). Soil Conservation Services. In *Soil Survey Manual* (p. 437). United States Department of Agriculture Handbook 18.
- Stavi, I., Ungar, E. D., Lavee, H., & Sarah, P. (2008). Grazing-induced spatial variability of soil bulk density and content of moisture, organic carbon and calcium carbonate in a semi-arid rangeland. *Catena*, 75(3), 288–296.
<https://doi.org/10.1016/j.catena.2008.07.007>
- Takwin, G. A., Turangan, A. E., & Rondonuwu, S. G. (2017). Analisis Kestabilan Lereng Metode Morgenstern-Price (Studi Kasus : Diamond Hill Citraland). *Tekno*, 15(67), 66–76.
- Terry, J. P. (2007). *Tropical Cyclones* (Vol. 5, Issue 3). Springer.
- Thompson, J. A., Pena-Yewtukhiw, E. M., & Grove, J. H. (2006). Soil-Landscape Modelling Across A Physiographic Region: Topographic Patterns and Model Transportability. *Geoderma*, 133(1–2), 57–70.
<https://doi.org/10.1016/j.geoderma.2006.03.037>
- Tran, T. V., Alkema, D., & Hack, R. (2019). Weathering and Deterioration of Geotechnical Properties in Time of Groundmasses in A Tropical Climate. *Engineering Geology*, 260, 1–15.

- <https://doi.org/10.1016/j.enggeo.2019.105221>
- van Beek, R., Cammeraat, E., Andreu, V., Mickovski, S. B., & Dorren, L. (2008). Hillslope Processes: Mass Wasting, Slope Stability, and Erosion. In *Slope Stability and Erosion Control: Ecotechnological Solutions* (pp. 17–64).
- Van Den Eeckhaut, M., Poesen, J., Govers, G., Verstraeten, G., & Demoulin, A. (2007). Characteristics of The Size Distribution of Recend and Historical Landslides in A Populated Hilly Region. *Earth and Planetary Science Letters*, 256(3–4), 588–603. <https://doi.org/10.1016/j.epsl.2007.01.040>
- Van Westen, C. ., Soeters, R., & Sijmons, K. (2000). Digital Geomorphological Landslide Hazard Mapping of the Alpago Area. *International Journal of Applied Earth Observation and Geoinformation*, 2(1), 51–60.
- Wang, Y., & Akeju, O. V. (2016). Quantifying the Cross-Correlation Between Effective Cohesion and Friction Angle of Soil from Limited Site-Specific Data. *Soils and Foundations*, 56(6), 1055–1070. <https://doi.org/10.1016/j.sandf.2016.11.009>
- Weil, R. R., & Brady, N. C. (2017). *The Nature And Properties of Soils* (15th ed.). Pearson Education.
- Wheaton, J. M., Fryirs, K. A., Brierley, G., Bangen, S. G., Bouwes, N., & O'Brien, G. (2015). Geomorphic Mapping and Taxonomy of Fluvial Landforms. *Geomorphology*, 248, 273–295. <https://doi.org/10.1016/j.geomorph.2015.07.010>
- Wright, R. . (1993). Some Application of Geomorphology in Soil Survey for Land Us Planning. In *Land Evaluation for Land Use Planning* (pp. 28–41). NBSS.
- Xie, M., Esaki, T., Zhou, G., & Mitani, Y. (2003). *GIS-Based Three-Dimensional Critical Slope Stability Analysis and Landslide Hazard Assessment*. 12(129), 1109–1118.
- Xiong, H., Qiu, Y., Lin, X., Chen, X., & Huang, D. (2023). Multiple Arching in Cohesion-Friction Soils: Insights from Deformation Behavior and Failure Mechanisms using FEM-SPH Approach. *Computers and Geotechnics*, 154, 105146. <https://doi.org/10.1016/j.compgeo.2022.105146>
- Zakaria, Z. (2009). *Analisis Kestabilan Lereng Tanah*. Laboratorium Geologi

Teknik, Fakultas Teknik Geologi, Universitas Padjadjaran.

Zhang, L. L., Fredlund, M. D., Fredlund, D. G., Lu, H., & Wilson, G. W. (2015).

The Influence of the Unsaturated Soil Zone on 2-D and 3-D Slope Stability Analyses. *Engineering Geology*, 193, 374–383.

<https://doi.org/10.1016/j.enggeo.2015.05.011>

Zhang, Y., Zhao, D., Zheng, Q., Huang, Y., & Jiang, F. (2022). Evaluating The Effects of Temperature on Soil Hydraulic and Mechanical Properties in The Collapsing Gully Areas of South China. *Catena*, 218(July), 106549.

<https://doi.org/10.1016/j.catena.2022.106549>

Zheng, H., Tham, L. G., & Liu, D. (2006). On Two Definitions of The Factor of Safety Commonly Used in The Finite Element Slope Stability Analysis.

Computers and Geotechnics, 33, 188–195.

<https://doi.org/10.1016/j.compgeo.2006.03.007>