

## DAFTAR PUSTAKA

- Abbey, S. J., Eyo, E. U., & Ng'ambi, S. (2020). Swell And Microstructural Characteristics Of High-Plasticity Clay Blended With Cement. *Bulletin Of Engineering Geology And The Environment*, 79(4), 2119–2130. <https://doi.org/10.1007/s10064-019-01621-z>
- Agate, E. E., Timothy, N., Nathaniel, A. O., & Ngassam, I. (2024). Performance Of Expansive Soil Stabilized With Bamboo Charcoal, Quarry Dust, And Lime For Use As Road Subgrade Material. *Ssrg International Journal Of Civil Engineering*, 11(2), 108–120. <https://doi.org/10.14445/23488352/Ijce-V11i2p110>
- Alqawasmeh, H., Alzubi, Y., & Mahamied, A. (2023). State Of The Art Review: Fiber-Reinforced Soil As A Proactive Approach For Liquefaction Mitigation And Risk Management. *Journal Of Engineering (United Kingdom)*, 2023. <https://doi.org/10.1155/2023/8737304>
- Andersen, K. H., Asce, M., & Schjetne, K. (2013). *Database Of Friction Angles Of Sand And Consolidation Characteristics Of Sand, Silt, And Clay*. [https://doi.org/10.1061/\(ASCE\)GT.1943](https://doi.org/10.1061/(ASCE)GT.1943)
- Asmara, D. B., & Triarso, A. (2025). Kohesi: Jurnal Multidisiplin Saintek Klasifikasi Sifat Fisis Tanah Lempung Dengan Metode Uscs (Unified Soil Classification System) (Studi Kasus: Kec. Rungkut, Surabaya Jawa Timur). *Jurnal Multidisiplin Saintek*, 9. <https://doi.org/10.8734/Kohesi.V1i2.36>
- Asri, L. M., Zakaria, Z., & Mulyo, A. (2023). *Mineral Tanah Lempung Formasi Batuasih Berdasarkan Data Sem (Scanning Electron Microscope) Dan Xrd (X-Ray Diffractometer) Pada Lereng Citatah Km-23, Padalarang, Jawa Barat (Vol. 6, Number 1)*.
- Balcha, A., Hassen, M., Geremew, A., & Teshome, G. (2025). Engineering Properties Of Expansive Soil Stabilized With Barley Husk Ash And Lime: Case Study Of Jimma Town Subgrade Soils. *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-25182-2>
- Basu, A., Mishra, D. A., & Roychowdhury, K. (2013). Rock Failure Modes Under Uniaxial Compression, Brazilian, And Point Load Tests. *Bulletin Of Engineering*

- Geology And The Environment*, 72(3–4), 457–475.  
<https://doi.org/10.1007/S10064-013-0505-4>
- Bawadi, N. F., Ahmad, N. S., Mansor, A. F., Anuar, S. A., & Rahim, M. A. (2020). Effect Of Natural Fibers On The Soil Compaction Characteristics. *Iop Conference Series: Earth And Environmental Science*, 476(1).  
<https://doi.org/10.1088/1755-1315/476/1/012043>
- Bowles, J. E. (1979). *Physical And Geotechnical Properties Of Soils*.
- Bowles, J. W. (1984). *Sifat-Sifat Fisis Dan Geoteknis Tanah (Mekanika Tanah)*. Erlangga.
- Braja M Das. (2017). *Principles Of Foundation Engineering*,.
- Chakraborty, S., Bisai, R., Palaniappan, S. K., Kumar Pal, S., & Scholar, P. D. (2019). Failure Modes Of Rocks Under Uniaxial Compression Tests: An Experimental Approach. *Journal Of Advances In Geotechnical Engineering*, 2(3).  
<https://doi.org/10.5281/Zenodo.3461773>
- Chen, C., Wei, K., Gu, J., Huang, X., Dai, X., & Liu, Q. (2022). Combined Effect Of Biopolymer And Fiber Inclusions On Unconfined Compressive Strength Of Soft Soil. *Polymers*, 14(4). <https://doi.org/10.3390/Polym14040787>
- Craig, R. (2004). *Craig's Soil Mechanics, Seventh Edition*.
- Darwis, H. (2017). *Dasar-Dasar Teknik Perbaikan Tanah* (Vol. 1). Pustaka Aq.
- Darwis, H. (2018). *Dasar-Dasar Mekanika Tanah*. Pena Indis.
- Das, B. M. (1988). *Principles Of Geotechnical Engineering*. Kent Publishig Company.
- Das, B. M. (2017). *Principles Of Foundation Engineering*.
- Das, B. M., & Sivakugan, N. (2016). *Developments In Geotechnical Engineering Correlations Of Soil And Rock Properties In Geotechnical Engineering*.  
<http://www.springer.com/series/13410>
- Daud, M. N. M., Adam, M. A. N., & Nazhar, M. I. M. (2025). Effect Of Bamboo Fiber On Hydrated Lime-Treated Granitic Residual Soil Strength. *Iop Conference Series: Earth And Environmental Science*, 1467(1).  
<https://doi.org/10.1088/1755-1315/1467/1/012018>
- Dokuchaev. (1870). *Mekanika Tanah*. Penerbit Erlangga.
- Dwi Putri, L., Hakam, A., & Thamrin, R. (2025). *Analisis Kuat Geser Tanah Kohesif Menggunakan Berbagai Geosintetik Cohesive Soil Shear Strength Analysis Using*

- Various Geosynthetics*, 11(1), 23–34.  
<https://doi.org/10.31849/Siklus.V11i1.26906>
- Endashaw, T. S. (2022). *Application Of Bamboo Fiber As Sub Grade Soil Reinforcement Case Of Elgo Town*.
- Evangelou, E. D., Markou, I. N., Verykaki, S. E., & Bantralexis, K. E. (2023). Mechanical Behavior Of Fiber-Reinforced Soils Under Undrained Triaxial Loading Conditions. *Geotechnics*, 3(3), 874–893.  
<https://doi.org/10.3390/Geotechnics3030047>
- Fadhilah, A., Suryandi, S., Ghony, M. A., & Putra. (2024). Penentuan Nilai Kuat Tekan Batulempung Dan Batupasir Menggunakan Metode Unconfined Compression Strength Pada Titik Bor Sync X05. *Jurnal Ilmiah Teknik Dan Sains*, 2(2), 57–65. <https://doi.org/10.62278/Jits.V2i2.43>
- Faridlah, M., Tohari, A., & Iryanti, M. (2016). Hubungan Parameter Sifat Magnetik Dan Sifat Keteknikan Tanah Pada Tanah Residual Vulkanik (Studi Kasus Daerah Longsor Desa Langensari Kabupaten Bandung Barat). In *Wahana Fisika* (Vol. 1, Number 1). <http://ejournal.upi.edu/index.php/wafi>
- Fauziek, M., & Suhendra, A. (2018). Efek Dari Dynamic Compaction (Dc) Terhadap Peningkatan Kuat Geser Tanah. In *Jurnal Mitra Teknik Sipil* (Vol. 1, Number 2).
- Firoozi, A. A., Guney Olgun, C., Firoozi, A. A., & Baghini, M. S. (2017). Fundamentals Of Soil Stabilization. *International Journal Of Geo-Engineering*, 8(1). <https://doi.org/10.1186/S40703-017-0064-9>
- Ghony, M. A., & Afriza, Mhd. D. (2024). Pengaruh Kandungan Air Terhadap Plastisitas Tanah Pada Titik Bor Xx. *Jurnal Ilmiah Teknik Dan Sains*, 2(2), 111–116. <https://doi.org/10.62278/Jits.V2i2.48>
- Gidebo, F. A., Kinoshita, N., & Yasuhara, H. (2024). Optimization Of Physical And Strength Performance Of Cellulose-Based Fiber Additives Stabilized Expansive Soil. *Case Studies In Construction Materials*, 20.  
<https://doi.org/10.1016/J.Cscm.2024.E02851>
- Gowthaman, S., Nakashima, K., & Kawasaki, S. (2018). A State-Of-The-Art Review On Soil Reinforcement Technology Using Natural Plant Fiber Materials: Past Findings, Present Trends And Future Directions. *Materials*, 11(4).  
<https://doi.org/10.3390/Ma11040553>

- Hardiyatmo, H. C. (2002). *Mekanika Tanah I* (1st Ed.). Gajah Mada University Press.
- Holtz, R. D. ., Kovacs, W. D. ., & Sheahan, T. C. . (2013). *An Introduction To Geotechnical Engineering*. Pearson India Education Services Pvt. Ltd.
- Hu, C., Weng, X., Liu, C., Jiang, L., Liu, J., & Li, W. (2021). Performance Of Polypropylene Fiber-Reinforced Solidified Soil. *Advances In Civil Engineering, 2021*. <https://doi.org/10.1155/2021/8859358>
- Ismanti, S., & Yasufuku, N. (2016). Effect Of *Bamboo chips* In Cemented Sand Soil On Permeability And Mechanical Properties In Triaxial Compression. *International Scholarly And Scientific Research & Innovation, 917–923*.
- Junaid, A., Irawati, S., & Awaludin, A. (2022). Analisis Sifat Mekanis Dan Fisis Bambu Menggunakan Metode Destruktif. *Jurnal Teknik Sipil Macca, 7*.
- Jusi, U. (2025). *Dasar Dan Aplikasi Rekayasa Tanah Problematik*. Pt Bukuloka Literasi Bangs.
- Kanayama, M., & Kawamura, S. (2019). Effect Of Waste Bamboo Fiber Addition On Mechanical Properties Of Soil. *Open Journal Of Civil Engineering, 09(03)*, 173–184. <https://doi.org/10.4236/ojce.2019.93012>
- Kannan, G., & Sujatha, E. R. (2023). Effect Of Nano Additive On Mechanical Properties Of Natural Fiber Reinforced Soil. *Journal Of Natural Fibers, 20(1)*. <https://doi.org/10.1080/15440478.2022.2143980>
- Knappet, J. A., & Craig, R. F. (2012). *Craig's Soil Mechanics*.
- Koga, C., Sato, K., & Fujikawa, T. (2020). Effects Of Clay Properties And Decay On Physical And Mechanical Properties Of *Bamboo chips* Mixed Solidified Soil. *Journal Of The Society Of Materials Science, 69(1)*, 85–90.
- Koga, C., Sato, K., Fujikawa, T., & Yamashita, W. (2024). Reinforcing Effect Of *Bamboo chips* In Bamboo Chip Mixed Solidified Soil. *Journal Of The Society Of Material Science, 73*.
- Kristina, D., Abduh, M. N., & Setiawan, A. (2025). Analisis Campuran Gypsum Dan Kapur Terhadap Cbr Dan Permeabilitas Tanah Lempung. *Jurnal Penelitian Teknik Sipil Konsolidasi, 3(1)*, 26–33. <https://doi.org/10.56326/jptsk.v3i1.4494>

- Kumar, R., Singh, S., Divya, S. S., & Mir, S. A. (2020). Compaction Characteristics Of Bc Soil Reinforced With Untreated And Treated Coir Fibers. *International Journal Of Engineering Research & Technology (Ijert)*, 9(6). [Www.Ijert.Org](http://www.ijert.org)
- Leonard, H., & Mabui, D. S. (2025). Pengaruh Nilai Indeks Plastisitas Tanah Lempung Dengan Penambahan Pasir Sungai.
- Li, L., Zhang, X., Xiao, H., Zhang, J., Chen, N., & Li, W. (2022). The Triaxial Test Of Polypropylene Fiber Reinforced Fly Ash Soil. *Materials*, 15(11). [Https://Doi.Org/10.3390/ma15113807](https://doi.org/10.3390/ma15113807)
- Liu, Z., Naibi, W., & Qu, J. (2025). Mechanical Properties And Micromechanisms Of Natural Fiber-Modified Saline Soil. *Scientific Reports*. [Https://Doi.Org/10.1038/s41598-025-32424-w](https://doi.org/10.1038/s41598-025-32424-w)
- Maity, J., Chattopadhyay, B. C., & Mukherjee, S. P. (2018). Improvement Of Characteristics Of Clayey Soil Mixed With Randomly Distributed Natural Fibers. *Journal Of The Institution Of Engineers (India): Series A*, 99(1), 55–65. [Https://Doi.Org/10.1007/s40030-017-0244-9](https://doi.org/10.1007/s40030-017-0244-9)
- Maria, Y., Astuti, R., Messakh, J., & Asrial, D. (2021). Analisis Sifat Fisis Tanah Di Jalan Gor Flobamora Kota Kupang Analysis Of Physical Properties Of Soil On Gor Flobamora Road, Kupang City. *Jurnal Batakarang*, 2(2).
- Miturski, M., Głuchowski, A., & Sas, W. (2021). Influence Of Dispersed Reinforcement On Mechanical Properties Of Stabilized Soil. *Materials*, 14(20). [Https://Doi.Org/10.3390/ma14205982](https://doi.org/10.3390/ma14205982)
- Mozumder, R. S., Bhumik, M. C., & Sheikh, P. (2025). Influence Of Bamboo Fiber Reinforcement On The Mechanical Behavior Of Soft Soil. *Discover Civil Engineering*, 2(1). [Https://Doi.Org/10.1007/s44290-025-00339-0](https://doi.org/10.1007/s44290-025-00339-0)
- Niyomukiza, J. B., Wardani, S. P. R., & Setiadji, B. H. (2020). The Influence Of Keruing Sawdust On The Geotechnical Properties Of Expansive Soils. *Iop Conference Series: Earth And Environmental Science*, 448(1). [Https://Doi.Org/10.1088/1755-1315/448/1/012040](https://doi.org/10.1088/1755-1315/448/1/012040)
- Nurul Siska, H., & Achmad Yakin, Y. (2016). Karakterisasi Sifat Fisis Dan Mekanis Tanah Lunak Di Gedebage. *Jurnal Teknik Sipil Itenas*, 2(4).
- Proctor, R. (1933). *Fundamental Principles Of Soil Compaction*.

- Putra, R. H., Faizien Haza, Z., & Sulistyorini, D. (2018). *Pengaruh Pasir Terhadap Tingkat Kepadatan Tanah Lempung Ekspansif*.
- Raharja, D. S., & Hibatullah, M. H. (2025). Analisis Perbaikan Tanah Lunak Menggunakan Metode Pre-Loading, Pvd Dan Phd Untuk Timbunan Pada Jalan Kelas I, Sumatera Barat. *Axial : Jurnal Rekayasa Dan Manajemen Konstruksi*, 13(1), 047. <https://doi.org/10.30742/Axial.V13i1.4260>
- Sato, K., Fujikawa, T., Koga, C., Watanabe, E., & Harada, K. (2024). Development Of Environmentally Friendly Scp Filling Material Using *Bamboo chips*. *Japanese Geotechnical Society Special Publication*, 10(41), 1533–1538. <https://doi.org/10.3208/Jgssp.V10.Os-30-01>
- Shigematsu, H., Sakiura, Y., Tanida, Y., & Tasaki, H. (2017). Geotechnical Properties Of *Bamboo chips*-Soil Mixture And Its Applicability As Pedestrian Pavement. *Jsce*, 73(3), 266–275.
- Shodiq, A. U., & Setiawan, A. (2023). Pengaruh Derajat Kejenuhan Tanah Lempung Terhadap Perilaku Penurunan Tanah Studi Kasus Di Jalan Poros Desa Badurame. *Dearsip*, 1.
- Shovon, S. R., Kassa, A., Sekine, R., Hayano, K., & Mochizuki, Y. (2024). Mixture Design For Eco-Friendly Hybrid Clay Treated With Two Stabilizers Based On Water Absorption And Retention Of Stabilizers. *Soils And Foundations*, 64(1). <https://doi.org/10.1016/J.Sandf.2023.101403>
- Silmi Surjandari, N., Nurlita Fitri, S., Djarwanti, N., Muslih Purwana, Y., Setiawan, B., Harya Dananjaya Hesti Indrabaskara, R., Budi Prakosa, B., Sri Wahyuni, N., & Cipta Dilindungi Oleh Undang-Undang, H. (2021). *Kajian Potensi Kembang Susut Tanah Ekspansif Di Beberapa Wilayah Solo Raya Hak Cipta 2021*. [www.penerbitwidina.com](http://www.penerbitwidina.com)
- Skempton, A. W. (1953). The Colloidal Activity Of Clays. *Proceedings Of The Third International Conference On Soil Mechanics And Foundation Engineering*.
- Sni 1744. (2012). *Metode Uji Cbr Laboratorium Badan Standardisasi Nasional*. [www.bsn.go.id](http://www.bsn.go.id)
- Sni 1964. (2008). *Sni 1964*.
- Sni 3423. (2008). *Standar Nasional Indonesia Cara Uji Analisis Ukuran Butir Tanah*.

- Soehardi, F., Hakam, A., Thamrin, R., & Mera, M. (2025). *Kajian Eksperimental Daya Dukung Tanah Pasir Berdasarkan Variasi Ukuran Butiran Partikel Terhadap Penurunan*. 11(1), 36–47. <https://doi.org/10.31849/Siklus.V11i1.26917>
- Standar Nasional Indonesia. (2008). *Sni 1743 : 2008 Cara Uji Kepadatan Berat Untuk Tanah Kembali Ke Daftar*.
- Standar Nasional Indonesia. (2012). *Sni 1788:2012 Metode Uji Cbr Laboratorium*. [www.bsn.go.id](http://www.bsn.go.id)
- Standar Nasional Indonesia. (2015). *Sni 2455 : 2015 Cara Uji Triaksial Untuk Tanah Dalam Keadaan Terkonsolidasi Tidak Terdrainase (Cu) Dan Terkonsolidasi Terdrainase (Cd)*.
- Tamimi, A., Christianto, D., & Yuwono, A. (2025). *Analisis Pengaruh Bentuk Butiran Pasir Pada Pengujian Permeabilitas Campuran Tanah Bsd Metode Constant Head* (Vol. 8, Number 4).
- Terzaghi, K., Peck, R. B., & Mesri, G. (1996). *Soil Mechanics In Engineering Practice* (3rd Ed.).
- Tjandra, D., & Wulandari, P. S. (2016). Pengaruh Drying Terhadap Kuat Kokoh Tanah Lempung Halus Jenuh. *Jurnal Dimensi Pratama Teknik*, 5(2).
- Topcuoglu, Y. A., & Gurocak, Z. (2023). Changes In The Strength Of High-Plasticity Clays After Stabilization: An Experimental Study. *Iranian Journal Of Science And Technology - Transactions Of Civil Engineering*, 47(2), 1109–1123. <https://doi.org/10.1007/S40996-022-00991-X>
- Toyeb, M., Ningrum, P., & Elizar, E. (2025). Korelasi Antara Kuat Tekan Bebas Dan Kepadatan Tanah Dicampur Abu Sawit Teraktivasi Alkali Aktivator. *Axial : Jurnal Rekayasa Dan Manajemen Konstruksi*, 13(2), 087. <https://doi.org/10.30742/Axial.V13i2.4472>
- Utami, D. N. (2018). Kajian Jenis Mineralogi Lempung Dan Implikasinya Dengan Gerakan Tanah Study Of Clay Mineral Type And Its Implication Toward Landslide. *Jurnal Alami*, 2.
- Waruwu, A., Pangemanan, I., Yunita, Y., Calvin, F., Lujaya, J., & Wijaya, N. (2024). Cbr (California Bearing Ratio) Test On Clay Soil Stabilized With Marble Ash And Biogrouting. *Media Komunikasi Teknik Sipil*, 30(1), 47–55. <https://doi.org/10.14710/Mkts.V30i1.58304>

- Wijaya, A., Christianto, D., & Yuwono, A. (2024). Studi Perbaikan Tanah Menggunakan Geotekstil Untuk Berbagai Konsistensi Tanah. *Jmts: Jurnal Mitra Teknik Sipil*, 7(3), 1004–1020. <https://journal.untar.ac.id/index.php/jmts/article/view/30831>
- Xie, W. Q., Liu, X. L., Zhang, X. P., Liu, Q. S., & Wang, E. Z. (2025). A Review Of Test Methods For Uniaxial Compressive Strength Of Rocks: Theory, Apparatus And Data Processing. In *Journal Of Rock Mechanics And Geotechnical Engineering* (Vol. 17, Number 3, Pp. 1889–1905). Chinese Academy Of Sciences. <https://doi.org/10.1016/j.jrmge.2024.05.003>
- Yudhyantoro, Y., Prayoga, A., & Maimunah, M. (2024). Analisis Perubahan Volume Pada Timbunan Tanah Lempung Berdasarkan Nilai Batas Susut (Sni 3422:2008). *Tameh*, 11(2), 115–123. <https://doi.org/10.37598/Tameh.V11i2.236>
- Zhao, W., Zhang, J., Zhang, W., Wang, J., & Wang, G. (2022). Changes In The Structural Composition And Moisture-Adsorption Properties Of Mechanically Rolled Bamboo Fibers. *Materials*, 15(10). <https://doi.org/10.3390/ma15103463>