

DAFTAR PUSTAKA

- Nugroho, A. S., & Sibarani, S. (2013). Pengaruh penggunaan cerucuk terhadap kuat geser tanah lempung lunak. *Jurnal APTEK*, 5(2), 87–97.
- Abd Elsamee, W. (2012). Evaluation of the ultimate capacity of friction piles. *Engineering*, 4(11), 778–789. <https://doi.org/10.4236/eng.2012.411100>
- Abdelrahman, G. (2003, January 1). Interpretation of axial pile load test results for continuous flight auger piles.
- AbdelSalam, S. S., & El-Naggar, H. M. (2014). LRFD for large-diameter bored piles in Egypt. *Geo-Congress*, 900–910. <https://doi.org/10.1061/9780784413272.088>
- Abidin Gaffar, Z. (2005). Perkuatan dengan cerucuk galam di atas tanah lunak. *Jurnal Teknik Sipil*, 6(2), 64–70.
- Achmus, M., & Thieken, K. (2010). On the behavior of piles in non-cohesive soil under combined horizontal and vertical loading. *Acta Geotechnica*, 5, 199–210. <https://doi.org/10.1007/s11440-010-0124-1>
- Adejumo, T. W., & Boiko, I. L. (2013). Modeling of axially loaded pile group settlement in soft compressive clay. *International Journal of Remote Sensing & Geoscience (IJRSG)*, 2(3). www.ijrsg.com
- Ahmad, I. (2019). Analisa metode perbaikan tanah lunak dan kohesif. *Menara Jurusan Teknik Sipil FT. UNJ*, 1–9.
- Akhtar, M. N., & Akhtar, M. N. (2012). Role of soil mechanics in civil engineering. *International Journal of Emerging Trends in Engineering and Development Issue*, 2.
- Andriani, dkk. (2012). Pengaruh penggunaan semen sebagai bahan stabilisasi pada tanah lempung daerah lambung bukit terhadap nilai CBR tanah. *Jurnal Rekayasa Sipil*, 8(1), 29–44.
- Arita Prima Indonesia. (2024, August 26). Pengertian, fungsi, kelebihan, aplikasi dan spesifikasi PVC. <https://arita.co.id>
- Ashore, M., Helal, A., Ardalan, H., & Assistants, G. R. (2012). Upgrade of axially loaded pile-soil modeling with the implementation of LRFD design procedure.
- ASTM D1143. (1994). Standard test method for piles under static axial compressive load. <http://www.astm.org/>
- Azalina Khalil, N., Nor Zelan, N., & Jamaludin, M. S. (2021). *Basic characteristics of soil* (1st ed., Vol. 1). Politeknik Tuanku Sultanah Bahiyah.
- Bowles, J. E. (1996). *Foundation analysis and design*. McGraw-Hill.
- Cernicq, J. N. (1995). *Geotechnical engineering soil mechanics* (Vol. 1). John Wiley & Sons, Inc.
- Ching, J., & Schreckendiek, T. (2021). State of the art review of inherent variability and uncertainty in geotechnical properties and models. *ISSMGE International for Soil Mechanics and Geotechnical Engineering*, 1–220. <https://doi.org/10.53243/R0001>

- Christy, K., Oktovian, T., Sompie, B. A., & Ticoh, J. H. (2018). Analisis potensi likuifaksi tanah berdasarkan data standar penetration test (SPT). *Jurnal Sipil Statik*, 6(7), 491–500.
- D Holtz, R., & D Kovacs, W. (1981). *An introduction to geotechnical engineering*. A Paramount Communication Company.
- Das, B. M., Noor, E. M., & Mochtar, I. B. (1995). *Mekanika tanah (Prinsip-prinsip rekayasa geoteknik)*.
- Deeb, M., Groffman, P., Blouin, M., Perl Egendorf, S., Vergnes, A., Vasenev, V., Cao, D. L., Walsh, D., Morin, T., & Séré, G. (2020). Using constructed soils for green infrastructure—Challenges and limitations. *SOIL*, 6(2), 413–434. <https://doi.org/10.5194/soil-6-413-2020>
- Desiani, A. (2019). Stabilisasi tanah lempung menggunakan soil binder. *Jurnal Teknik Sipil*. <https://doi.org/10.28932/jts.v8i1.1356>
- Dharmayasa, G. (2014). Analisis daya dukung pondasi dangkal pada tanah lunak di daerah dengan muka air tanah dangkal (Studi kasus pada daerah Suwung Kauh). *PADURAKSA*, 3(2), 22–44.
- Dong, W. (2018). A reliability study of a pile foundation design in soft soils. In *Proceedings of GeoShanghai 2018 International Conference: Advances in Soil Dynamics and Foundation Engineering* (pp. 675–683). Springer Singapore. https://doi.org/10.1007/978-981-13-0131-5_73
- Fatnanta, F., & Satibi, S. (2017). Karakteristik daya dukung lateral pondasi helical pada tanah gambut. In *Konferensi Nasional Teknik Sipil*.
- Fatnanta, F., Satibi, S., & Muhardi. (2018). Bearing capacity of helical pile foundation in peat soil from different diameter and spacing of helical plates. *IOP Conference Series: Materials Science and Engineering*, 316(1). <https://doi.org/10.1088/1757-899X/316/1/012035>
- Gusnadi, Z., Handiman, I., & Fitriana Sarifah, D. (2023). Analisa perbaikan tanah lunak menggunakan Controlled Modulus Columns (CMC) pada konstruksi timbunan jalan. *Jurnal Ilmiah Teknik Sipil*, 4(2), 1–6.
- Hadi, S., Takwin, R. N. A., & Dani, A. (2016). Uji kekuatan tekan dan kekuatan lentur pipa air PVC. *Jurnal Logic*, 16(1), 7–13.
- Hakam, A. (2008). *Rekayasa pondasi* (Vol. 1). CV. Bintang Grafika.
- Hakam, A., Srihandayani, S., Ismail, F. A., Asmirza, M. S., & Hape, M. M. (2019). Environmentally friendly foundation for the sustainability development of infrastructures in swamp area. *IOP Conference Series: Materials Science and Engineering*, 615(1). <https://doi.org/10.1088/1757-899X/615/1/012068>
- Hakam Novrial, A., Hakam, A., & Faisal Pane, I. (2005). Load capacity of floating raft-pile. *Jurnal Arsitektur ATRIUM*, 2(1), 1–14.
- Hall, W. J., & Kramer, S. L. (1996). *Geotechnical earthquake engineering* (1st ed.). Prentice-Hall, Inc.
- Hameda, S., & Ulker, R. (2020). *Geotechnical engineering: Advances in soil mechanics and foundation engineering*.
- Harianto, T., Arsyad, A., & Effendi, W. (2016). Studi deformasi perkuatan tanah lunak dengan cerucuk miring.

- Harianto Tri, A. A. Y. D. (2015). Studi efektifitas tiang pancang kelompok miring pada perkuatan tanah lunak. In *Proceedings of the National Civil Engineering Conference 9 (KoNTekS 9)* (pp. 373–380).
- Harpito, Hakam, A., & Yuliet, R. (2015). Studi analisis perilaku raft-piled foundation berdasarkan metode elemen hingga 3D nonlinier. *Jurnal Rekayasa Sipil*, 11(1), 1–10.
- Heldiansyah, et al. (2014). Inovasi desain pondasi kacapuri di atas tanah gambut yang distabilisasi. *Lanting Journal of Architecture*, 3(1), 37–47.
- Intui, S., Soralump, S., & Inazumi, S. (2022). Behaviour of bearing capacity on pile foundation during fluctuating groundwater level. *International Journal of GEOMATE*, 22(90), 24–31. <https://doi.org/10.21660/2022.90.gxi242>
- Jiang, Huang, Ma, & Luo. (2019). Analysis of strength development and soil–water characteristics of rice husk ash–lime stabilized soft soil. *Materials*, 12(23), 3873. <https://doi.org/10.3390/ma12233873>
- Julperizal, Fatnanta, F., & Agus Nugroho, S. (2019). Analisa daya dukung pondasi tiang bersirip pada tanah lunak dengan variasi dan panjang sirip. *Jom FTEKNIK*, 6(2), 1–9.
- Kalaga, S., & Pamuru, S. T. (2023). Spatial variation of soil properties: Foundation design challenges. *European Journal of Environment and Earth Sciences*, 4(3), 1–8. <https://doi.org/10.24018/ejgeo.2023.4.3.404>
- Kawanda, A. (2021). Uji beban pondasi. In *HATTI mengajar* (Vol. 1, pp. 1–144).
- Khalil, N. A., Zelam, N. N., & Jamaludin, M. S. (2021). *Basic characteristics of soil* (1st ed., Vol. 1). Politeknik Tuanku Sultanah Bahiyah.
- Khosravi, M., Boulanger, R. W., Wilson, D. W., Olgun, C. G., Tamura, S., & Wang, Y. (2017). Dynamic centrifuge tests of structures with shallow foundations on soft clay reinforced by soil-cement grids. *Soils and Foundations*, 57(4), 501–513. <https://doi.org/10.1016/j.sandf.2017.06.002>
- Khouri, M. C., Poeppel, A. R., & Gallagher, M. J. (2010). Indian Geotechnical Conference.
- Kimpraswil No. Pt T-8-2002-B. (2002). Proses pembentukan dan sifat-sifat dasar tanah lunak. *Panduan Geoteknik* (Vol. 1, pp. 1–162).
- Kumar, R. (2023). Soil improvement techniques for soft soils. <https://doi.org/10.13140/RG.2.2.33607.06560>
- Kurniawan, S. Y., Parahyangan, U. K., Teknik, F., Studi, P., & Sipil, T. (2018). Tanah lunak studi kasus jembatan di Kalimantan Timur. *Jurnal Teknik Sipil*, 227.
- Lai, P., McVay, M., Bloomquist, D., & Badri, D. (2008). Axial pile capacity of large diameter cylinder piles.
- Das, B. M. (2016). *Principles of foundation engineering* (8th ed.). Cengage Learning.
- Das, B. M., Noor, E. M., & Mochtar, I. B. (1993). *Mekanika tanah (Prinsip-prinsip rekayasa geoteknis)* (2nd ed., Vol. 2). Erlangga.
- Olson, R. E. (1998). Axial load capacity of piles in sand. <https://scholarsmine.mst.edu/icchge/4icchge-session01/34>

- Parlan, Fatnanta, F., & Muhardi. (2016). Pengaruh jumlah plat helical terhadap daya dukung pondasi tiang helical pada tanah gambut. *JOM FTEKNIK*, 3(2).
- Poulos, H. G., & Davis, E. H. (1980). *Pile foundation analysis and design*. Wiley.
- Purwana, Y. M., Pramugani, A., & Setiawan, W. (2008). Metode keseimbangan batas vs metode elemen hingga untuk analisis pondasi dangkal menerus pada tanah kohesif. *Media Teknik Sipil*, 33–38.
- Putra, R., Fatnanta, F., & Muhardi. (2016). Pengaruh variasi jarak pelat helical terhadap daya dukung tarik helical pile pada tanah gambut. *JOM FTEKNIK*, 3(2), 1–10.
- Qomara, W. F., Musfiroh, I., & Rina, W. (2023). Review: Evaluasi stabilitas dan inkompatibilitas sediaan oral liquid. *Majalah Farmasetika*, 8(3), 209–223. <https://doi.org/10.24198/mfarmasetika.v8i3.44346>
- Ramadhani, T., & Jafri, M. (2015). Hubungan batas cair dan plastisitas indeks tanah lempung yang disubstitusi pasir terhadap nilai kohesi tanah pada uji direct shear. *JRSDD*, 3(2), 291–302.
- Rashid, A. S. A., Kueh, A. B. H., & Mohamad, H. (2018). Behaviour of soft soil improved by floating soil-cement columns. *International Journal of Physical Modelling in Geotechnics*, 18(2). <https://doi.org/10.1680/jphmg.15.00041>
- Rohmah, A. F. M., Zudhan, A. H., & Setiaji, B. (2023). Analisis tenggelamnya kapal di waduk Kedung Ombo menggunakan konsep hukum Archimedes. *Jurnal Penelitian Fisika dan Terapannya (JUPITER)*, 4(2), 15–20. <https://doi.org/10.31851/jupiter.v4i2.10345>
- Sabaruddin, Suyuti, & Hakim, R. (2020a). Predicted overall stability of embankment on very soft soil reinforced by bamboo piles based on full-scale test data. *International Journal of GEOMATE*, 18(65), 102–109. <https://doi.org/10.21660/2020.65.59237>
- Sánchez-Garrido, A. J., Navarro, I. J., & Yepes, V. (2022). Evaluating the sustainability of soil improvement techniques in foundation substructures. *Journal of Cleaner Production*, 351, 131463. <https://doi.org/10.1016/j.jclepro.2022.131463>
- Saptowati, H., & Utomo. (2011). Pemilihan struktur pondasi pada gedung pabrik bahan bakar nuklir. *PRIMA*, 73–80.
- Siboro, E., Yusa, M., & Fatnanta, F. (2018). Stabilisasi tanah CL-ML menggunakan semen dan difa soil stabilizer. *JOM FTEKNIK*, 5(2), 1–9.
- SNI 8459. (2017). *Badan Standar Nasional Indonesia Metode uji fondasi dalam dengan High-Strain Dynamic Pile (HSDP)*. www.bsn.go.id
- SNI 8460. (2017). *Persyaratan perancangan geoteknik*. www.bsn.go.id
- Srihandayani, S. (2020). Alternative foundation for reducing building losses due to foundation failure in soft soil. *E3S Web of Conferences*, 156, 02006. <https://doi.org/10.1051/e3sconf/202015602006>
- Srihandayani, S., Abrar, A., & Indrawan, S. (2019). Stabilisasi berbasis ion exchange untuk meningkatkan daya dukung subgrade di kota Dumai. *Siklus: Jurnal Teknik Sipil*, 5(2), 63–69. <https://doi.org/10.31849/siklus.v5i2.3236>
- Srihandayani, S., Hakam, A., Mera, M., & Ismail, F. A. (2023). Bearing capacity analysis of floating foundation model in homogeneous very soft clay. *Civil and*

Environmental Engineering, 19(2), 758–771. <https://doi.org/10.2478/cee-2023-0069>

- Srihandayani, S., Putri, D., Kurniasih, N., & Putri, L. D. (2018). Bearing capacity of floating foundations used PVC (Poly Vinyl Chloride) on soft soil with the scale model in the field. *International Journal of Engineering and Technology (UAE)*, 7(2.5 Special Issue 5).
- Suhendro, B., & Hardiyatmo, H. (2015). *Cakar ayam modifikasi*.
- Sulaeman, A., Fulazzaky, M. A., Haroen, M., & Bakar, I. (2018). Field test results of palm oil clinker concrete pile and foamed concrete pile for floating foundation in soft soil. *KSCE Journal of Civil Engineering*, 22(7), 1–12. <https://doi.org/10.1007/s12205-017-1729-9>
- Surjandari, N. S. (2007). Analisa penurunan pondasi rakit pada tanah lunak. *Gema Teknik*, 2(X), 16–21.
- Terzaghi, K., Peck, R. B., & Mesri, G. (1996). *Soil mechanics in engineering practice* (3rd ed.). Wiley.
- Tomlinson, M., & Woodward, J. (2009). *Pile design and construction practice* (7th ed.). Taylor & Francis.
- Tsinidis, G. (2017). Response characteristics of rectangular tunnels in soft soil subjected to transversal ground shaking. *Tunnelling and Underground Space Technology*, 62, 1–22. <https://doi.org/10.1016/j.tust.2016.11.003>
- Tuong, N. K., H. N. M., & Nhon, P. V. L. P. D. (2013). Analysis of floating pile capacity in improved ground for Thi Vai Port, Vietnam. In *Proceedings of the 18th International Conference on Soil Mechanics and Geotechnical Engineering* (pp. 2485–2488). <https://www.issmge.org/publications/online-library>
- Ugwu, O. O., Ogboin, A. S., & Nwoji, C. U. (2018). Characterization of engineering properties of active soils stabilized with nanomaterial for sustainable infrastructure delivery. *Frontiers in Built Environment*, 4, Article 65. <https://doi.org/10.3389/fbuil.2018.00065>
- Umari, Z. F. (2019). Menganalisa pondasi rumah rakit dari bambu ke pipa PVC di sekitar sungai Musi Palembang. *Jurnal Teknik Sipil*, 60–68.
- Usman, A. (2014). Studi daya dukung pondasi dangkal pada tanah gambut menggunakan kombinasi perkuatan anyaman bambu dan grid bambu dengan variasi lebar dan jumlah lapisan perkuatan. *Jurnal Teknik Sipil dan Lingkungan*, 2(3), 297–302.
- Wardoyo, Sarwondo, Destiasari, F., Wahyudin, Wiyono, Hasibuan, G., & Sollu, W. P. (2019). *Atlas sebaran tanah lunak Indonesia* (Andiani, Sugalang, D. Murdohardono, & Kardiyanto, Eds.; Vol. 1). Badan Geologi Kementerian Energi dan Sumber Daya Mineral.
- Warman, H., Andrea, B., & Teknik Sipil, P. (2023). Stabilisasi tanah lempung dengan Difa Soil Stabilizer dan semen PCC. *Sigma Teknika*, 6(1), 195–201.
- Wrana, B. (2015). Pile load capacity—Calculation methods. *Studia Geotechnica et Mechanica*, 37(4), 83–93. <https://doi.org/10.1515/sgem-2015-0048>
- Yoon, A.-F., Tsai, Z., Yoon, S., Abu-Farsakh, M. Y., & Zhang, Z. (2008). LFRD calibration of axially-loaded concrete piles driven into soft soils.

- Zaid, N., & Yakin, Y. A. (2017). Analisis daya dukung dan penurunan fondasi rakit dan tiang rakit pada timbunan di atas tanah lunak. *Reka Racana Jurnal Online Institut Teknologi Nasional*, 3(2), 1–12.
- Zekavati, A., Khodaverdian, A., Jafari, M., & Hosseini, A. (2017). Investigating the performance of micropiled raft in foundation of power transmission lines towers in cohesive soil: Experimental and numerical study. *Canadian Geotechnical Journal*, 55. <https://doi.org/10.1139/cgj-2017-0027>

