

DAFTAR PUSTAKA

- Agustina, S., 2016. Potensi Likuefaksi dan prediksi penurunan tanah setelah gempa. Universitas Gadjah Mada, Yogyakarta.
- Akin, M.K., Kramer, S.L., Topal, T., 2011. Empirical correlations of shear wave velocity (V_s) and penetration resistance (SPT-N) for different soils in an earthquake-prone area (Erbaa-Turkey). Eng. Geol. 119, 1–17.
- Alatik, L., Abrahamson, N., 2010. An improved method for nonstationary spectral matching. Earthquake Spectra 26, 601–617. <https://doi.org/10.1193/1.3459159>
- American GeoServices, 2023. Liquefaction [WWW Document]. URL <https://americangeoservices.com/liquefaction.html> (diakses 3.21.24).
- Ashour, M., Helal, A., 2017. Pre-liquefaction and post-liquefaction responses of axially loaded piles in sands. International Journal of Geomechanics 17, 04017073.
- Beatty, M.H., Byrne, P.M., 2011. UBCSAND constitutive model version 904aR. Itasca UDM Web Site 69, 27.
- Bolton Seed, H., Tokimatsu, K., Harder, L.F., Chung, R.M., 1985. Influence of SPT procedures in soil liquefaction resistance evaluations. Journal of geotechnical engineering 111, 1425–1445.
- Boore, D.M., Stewart, J.P., Seyhan, E., Atkinson, G.M., 2014. NGA-West2 equations for predicting PGA, PGV, and 5% damped PSA for shallow crustal earthquakes. Earthquake Spectra 30, 1057–1085.
- Boulanger, R.W., Idriss, I.M., 2014. CPT and SPT based liquefaction triggering procedures. Report No. UCD/CGM.-14 1.
- Bozorgnia, Y., Abrahamson, N.A., Atik, L. Al, Ancheta, T.D., Atkinson, G.M., Baker, J.W., Baltay, A., Boore, D.M., Campbell, K.W., Chiou, B.S.-J., 2014. NGA-West2 research project. Earthquake Spectra 30, 973–987.
- Brinkgreve, R.B.J., Kumarswamy, S., Swolfs, W.M., Waterman, D., Chesaru, A., Bonnier, P.G., 2016. PLAXIS 2016. PLAXIS bv, the Netherlands 1–16.
- Broms, B., Fredriksson, A., 1976. Failure of pile-supported structures caused by settlements.
- Broms, B.B., 1964. Lateral resistance of piles in cohesionless soils. Journal of the soil mechanics and foundations division 90, 123–156.

Construction procedures and LRFD design methods. United States. Federal Highway Administration.

BSN, 2020. SNI 8899-2020 Tata cara pemilihan dan modifikasi gerakan tanah.

BSN, 2019. SNI 1726-2019 : Tata cara perencanaan ketahanan gempa untuk struktur bangunan gedung dan nongedung.

BSN, 2017. SNI 8460-2017 Persyaratan perencanaan geoteknik. 8460–2017.

CEA, 2020. Earthquake Measurment Magnitudo vs Intensity. Sacramento, CA, hlm. 800–800.

Dan A. Brown, John P. Turner, Raymond J. Castelli, Erik J. Loehr, 2018. Drilled Shafts: Construction Procedures and Design Methods. USA.

Das, B.M., Sivakugan, N., 2018. Principles of foundation engineering. Cengage learning.

Day, R.W., 2010. Foundation engineering handbook: design and construction with the 2009 international building code. McGraw-Hill Education.

Day, R.W., 2002. Geotechnical earthquake engineering handbook. McGraw-Hill.

Elnashai, A.S., Sarno, L. Di, 2008. Fundamentals of Earthquake Engineering, 01 ed. John Wiley & Sons, West Sussex.

ESDM, 2023. Peta Patahan Aktif Indonesia [WWW Document]. URL <https://geologi.esdm.go.id/geomap/pages/preview/peta-patahan-aktif-indonesia> (diakses 5.8.23).

FHWA, 2009. LRFD Seismic Analysis and Design of Transportation Geotechnical Features and Structural Foundations Reference Manual Interims AASHTO Guide Specifications for LRFD Seismic Bridge Design.

Galavi, V., Petalas, A., Brinkgreve, R.B.J., 2013. Finite element modelling of seismic liquefaction in soils. Geotechnical Engineering Journal of the SEAGS & AGSSEA 44, 55–64.

Haldar, S., Babu, G.L.S., 2010. Failure mechanisms of pile foundations in liquefiable soil: Parametric study. International Journal of Geomechanics 10, 74–84.

Hancock, J., Watson-Lamprey, J., Abrahamson, N.A., Bommer, J.J., Markatis, A., Mccoy, E., Mendis, R., 2006. An improved method of matching response spectra of recorded earthquake ground motion using wavelets, Journal of Earthquake Engineering.

ed. Gadjah Mada University Press, Yogyakarta.

Hardiyatmo, H.C., 2022b. Teknik Fondasi 2, 5 ed. Gadjah Mada University Press, Yogyakarta.

Hardiyatmo, H.C., 2002. Mekanika Tanah I, Edisi ketiga. Penerbit PT, Gramedia Pustaka Utama, Jakarta.

Huang, D., Wang, G., Jin, F., 2020. Effectiveness of pile reinforcement in liquefied ground. *Journal of Earthquake Engineering* 24, 1222–1244.

Idriss, I.M., 1999. An update to the Seed-Idriss simplified procedure for evaluating liquefaction potential. Proc., TRB Workshop on New Approaches to Liquefaction, Publ. n. FHWA-RD-99-165, Federal Highway Administration.

Idriss, I.M., Boulanger, R.W., 2010. SPT-based liquefaction triggering procedures. Rep. UCD/CGM-10 2, 4–13.

Idriss, I.M., Boulanger, R.W., 2008. Soil Liquefaction During Earthquakes, MNO-12. ed. Earthquake Engineering Research Institute (EERI), California.

Ishimwe, E., Coffman, R.A., Rollins, K.M., 2018. Analysis of post-liquefaction axial capacities of driven pile and drilled shaft foundations, dalam: IFCEE 2018. hlm. 272–283.

Iwasaki, T., Tokida, K.I., Tatsuoka, F., Watanabe, S., Yasuda, S., Sato, H., 1982. Microzonation for soil liquefaction potential using simplified methods, dalam: Proceedings of the 3rd international conference on microzonation, Seattle. hlm. 1310–1330.

Kementrian PUPR, 2021. Peta Desain Spektra Indonesia [WWW Document]. Direktorat Jenderal Cipta Karya Kementerian PUPR. URL <https://rsa.ciptakarya.pu.go.id/2021/> (diakses 8.1.25).

Kramer, S.L., 1996. Geotechnical Earthquake Engineering, 1 ed. Prentice-Hall Inc, New Jersey.

Kulhawy, F.H., 1991. Drilled shaft foundations. *Foundation engineering handbook* 537–552.

Lai, V.Q., Keawsawasvong, S., Do, T.H., Huynh, Q.T., Tran, Q.V., Tra, H.T., 2023. Performance Analysis of Pile Under Negative Skin Friction by Load-Transfer Method, dalam: Reddy, J.N., Wang, C.M., Luong, V.H., Le, A.T. (Ed.), ICSCEA 2021. Springer Nature Singapore, Singapore, hlm. 633–642.

[WWW Document]. URL <https://mptuttle.com/index.html> (diakses 6.8.23).

Makra, A., 2013. Evaluation of the UBC3D-PLM constitutive model for prediction of earthquake induced liquefaction on embankment dams. Delft University of Technology.

Marcuson, W.F., I., Bieganousky, W.A., 1997. SPT and relative density in coarse sands. Geotech. Engrg. Div., ASCE 103, 1295–1309.

Mase, L.Z., 2019. Performance of NGA models in predicting ground motion parameters of the strong earthquake, dalam: Journal of the Civil Engineering Forum. Petra Christian University, hlm. 227–242.

Masing, G., 1926. Residual stresses and hardening in brass, dalam: Proceedings, second international congress of applied mechanics. hlm. 332–335.

Mazzoni, Silvia, Mazzoni, S, Hachem, M., Sinclair, M., 2012. An Improved Approach for Ground Motion Suite Selection and Modification for Use in Response History Analysis.

Mohammadizadeh, Mohsen, Mohammadizadeh, Moein, 2016. Numerical Modeling of a Dynamic Pile–Soil Interaction in Layered Soil Media. GEO 96.

Mohey Mohamed, A., Abd El Fattah, M., Mohamed Hassan, A., Moussa Abu Bakr, A., 2020. Numerical analysis of liquefaction phenomenon by using UBC3D-PLM constitutive model. Journal of Advanced Engineering Trends 38, 81–96.

O’Neil, M.W., Reese, L.C., 1999. Drilled shafts: Construction procedures and design methods. United States. Federal Highway Administration. Office of Infrastructure.

O’Neill, M.W., Reese, L.C., 1972. Behavior of bored piles in Beaumont clay. Journal of the Soil Mechanics and Foundations Division 98, 195–213.

Pawirodikromo, W., 2012. Seismologi Teknik & Rekayasa Kegempaan. Yogyakarta: Pustaka Pelajar.

Petalas, A., Galavi, V., 2013. Plaxis liquefaction model UBC3D-PLM. Plaxis report. Plaxis, 2024. Material Models manual 2D.

Poulos, S.J., Castro, G., France, J.W., 1985. Liquefaction evaluation procedure. Journal of Geotechnical Engineering 111, 772–792.

Primadya, R., 2025. Wujud Negara Hadir, Pemerintah dan PLN Berhasil Listriki 99,92 Persen Desa di Seluruh Indonesia [WWW Document].

[pemerintah-dan-pln-berhasil-listriki-9992-persen-desa-di-seluruh-indonesia/](#).

Pusat Studi Gempa Nasional, 2017. Peta Sumber dan Bahaya Gempa Indonesia. Pusat penelitian dan pengembangan perumahan dan permukiman PUPR, Bandung.

Ragan, D.M., 1973. Structural Geology an Introduction to Geometrical Techniques. John Willey & Sons. Inc, New York.

Reese, L.C., O'Neill, M.W., 1989. New design method for drilled shafts from common soil and rock tests, dalam: Foundation Engineering: Current principles and practices. ASCE, hlm. 1026–1039.

Richter, C.F., 1930. World of Earth Science.

Robertson, P.K., Wride, C.E., 1998. Evaluating cyclic liquefaction potential using the cone penetration test. Canadian geotechnical journal 35, 442–459.

Satilah, S.E., Hardiyatmo, H.C., Satyarno, I., 2024. Study of The Axial and Lateral Bearing Capacity of Bored Piles Affected by Liquefaction, dalam: IOP Conference Series: Earth and Environmental Science. IOP Publishing, hlm. 012021.

Seed, H Bolton, Idriss, I.M., 1971. Simplified procedure for evaluating soil liquefaction potential. Journal of the Soil Mechanics and Foundations division 97, 1249–1273.

Seed, H. B, Idriss, I.M., 1971. National Technical Information Service Asimplified Procedure For Evaluating Soil Liquefaction Potential.

Septiadi, D.R., Hardiyatmo, H.C., Faris, F., 2022. Analysis of Bored Pile Foundation In Potentially Liquefied Soil (Case Study: Anutapura Medical Center Building). ICSBE 4.

Setyadi, G.P., Rifa'I, A., Indrawan, I.G.B., 2024. Effects of Soil Liquefaction to Foundation Bearing Capacity Based on Empirical and Numerical Simulation, dalam: IOP Conference Series: Earth and Environmental Science. Institute of Physics. <https://doi.org/10.1088/1755-1315/1373/1/012011>

Sims, J.D., Garvin, C.D., 1995. Recurrent liquefaction induced by the 1989 Loma Prieta earthquake and 1990 and 1991 aftershocks: implications for paleoseismicity studies. Bulletin of the Seismological Society of America 85, 51–65.

Somantri, A.K., Mase, L.Z., Susanto, A., Gunadi, R., Febriansya, A., 2023. Analysis of ground response of Bandung region subsoils due to predicted earthquake

triggered by Lembang Fault, West Java Province, Indonesia. Geotechnical and Geological Engineering 41, 1155–1181.

Souliotis, C., Gerolymos, N., 2016. Seismic effective stress analysis of quay wall in liquefiable soil: The case history of Kobe. GEOMATE Journal 10, 1770–1775.

Tomlinson, M., Woodward, J., 2007. Pile design and construction practice. CRC press.

Towhata, I., 2008a. Geotechnical earthquake engineering. Springer Series in Geomechanics and Geoengineering.

Towhata, I., 2008b. Features of Liquefaction-Induced Damages. Geotechnical Earthquake Engineering 343–368.

Tsegaye, A., 2010. Plaxis liquefaction model. Delft, The Netherlands.

Tsuchida, H., 1970. Prediction and countermeasure against the liquefaction in sand deposits, dalam: Abstract of the seminar in the Port and Harbor Research Institute. hlm. 31–333.

Tsukamoto, Y., Ishihara, K., 2022. Advances in Soil Liquefaction Engineering. Springer Series in Geomechanics and Geoengineering, Tokyo.

USGS, 2023. Earthquake Hazards Program [WWW Document]. URL <https://earthquake.usgs.gov/> (diakses 7.31.25).

Vesic, A.S., 1977. Design of pile foundations. NCHRP synthesis of highway practice.

Wadati, K., 1929. Complete Dictionary of Scientific Biography.

Wahyudi, D.I., 2017. Pemilihan dan Pen-skala-an Rekaman Akselerogram Gempa Nyata agar Sesuai dengan Spektrum Respons SNI 1726-2012. Jurnal Aplikasi Teknik Sipil 15, 67. <https://doi.org/10.12962/j2579-891x.v15i2.3103>

Wood, H.O., Newmann, F., 1931. Modified Mercalli Intensity Scale of 1931. Seismological Society of America Bulletin 277–83.

Yeats, R.S.S.K.; A.C.R., 1997. The Geology of Earthquake. Oxford University Press, New York.

Youd, T.L., Idriss, I.M., 2001. Liquefaction resistance of soils: summary report from the 1996 NCEER and 1998 NCEER/NSF workshops on evaluation of liquefaction resistance of soils. Journal of geotechnical and geoenvironmental engineering 127, 297–313.

Zakariya, A., Rifa'i, A., Ismanti, S., Hidayat, M.S., 2023. Axial and lateral bearing capacity assessment of bored piles on medium-dense sand and liquefiable potential based on numerical simulation, dalam: IOP Conference Series: Earth and Environmental Science. IOP Publishing, hlm. 012007.