

## DAFTAR PUSTAKA

- Al-Jeznawi, D., Jais, I.M.M., Albusoda, B., 2022. A Soil-Pile Response under Coupled Static-Dynamic Loadings in Terms of Kinematic Interaction. *Civil and Environmental Engineering* 18, 96–103.  
<https://doi.org/10.2478/cee-2022-0010>
- Arimuko, A., Tri Fristiyan Nanda, B., Rasmid, R., 2021. Identifikasi Struktur Bawah Permukaan Berdasarkan Pemodelan Kecepatan 1D Hasil Relokasi Hiposentrum Gempa di Pulau Lombok, Gunung Sinabung, dan Jailolo. *Jurnal Geofisika* 18, 40–48.  
<https://doi.org/10.36435/jgf.v18i2.440>
- Asrurifak, M., 2010. Peta Respon Spektra Indonesia untuk Perencanaan Struktur Bangunan Tahan Gempa Berdasarkan Model Sumber Gempa Tiga Dimensi dalam Analisis Probabilitas.
- Bulo, D., Hendrawanto, B., 2020. Penentuan Titik Epicenter Dan Hypocenter Serta Parameter Magnitude Gempabumi Berdasarkan Data Seismogram 3.
- Castelli, F., Grasso, S., Lentini, V., Sammito, M.S.V., 2021. Effects of Soil-Foundation-Interaction on the Seismic Response of a Cooling Tower by 3D-Fem Analysis. *Geosciences* 11, 200  
<https://doi.org/10.3390/geosciences11050200>
- Fansuri, M.H., Chang, M., Saputra, P.D., Purwanti, N., Laksmi, A.A., Harahap, S., Puspitasari, S.D., 2022. Effects of various factors on behaviors of piles and foundation soils due to seismic shaking. *Solid Earth Sciences* 7, 252–267.  
<https://doi.org/10.1016/j.sesci.2022.09.001>
- Farah, D.S., Raharjo, W., Prayoedhie, S., Vermiratih, D., Hadi, Y., 2023. Penentuan Aftershock Gempabumi Yogyakarta Tanggal 6 Juni 2006 Dengan Menggunakan Metode Geiger 1.
- Fatahi, B., Hokmabadi, A.S., Samali, B., 2014. Seismic Performance-Based Design for Tall Buildings Considering Soil-Pile-Structure Interaction, in: *Advances in Soil Dynamics and Foundation Engineering*. Presented at the Geo-

- Shanghai 2014, American Society of Civil Engineers, Shanghai, China, pp. 333–342.  
<https://doi.org/10.1061/9780784413425.034>
- Gabrielaitis, L., Papinigis, V., Žaržojus, G., 2013. Estimation of Settlements of Bored Piles Foundation. *Procedia Engineering* 57, 287–293.  
<https://doi.org/10.1016/j.proeng.2013.04.039>
- Garala, T.K., Madabhushi, G.S.P., 2019. Seismic behaviour of soft clay and its influence on the response of friction pile foundations. *Bull Earthquake Eng* 17, 1919–1939.  
<https://doi.org/10.1007/s10518-018-0508-4>
- Groholski, D., 2016. Evaluation of 1-D Non-linear Site Response Analysis using a General Quadratic/Hyperbolic Strength-Controlled Constitutive Model.
- Gutenberg, B., Richter, C., 1942. Earthquake magnitude, intensity, energy, and acceleration. *Bulletin of the Seismological Society of America* 32, 163–191.
- Hardiyatmo, H.C., 2002. mekanika tanah 1.pdf [Www Document]. Google Docs. URL Gadjah Mada Universitas Press, Yogyakarta. (accessed 2.23.25).
- Hashash, Y.M.A., 2024. Department of Civil and Environmental Engineering University of Illinois at Urbana-Champaign [hashash@illinois.edu](mailto:hashash@illinois.edu).
- Hokmabadi, A.S., Fatahi, B., Samali, B., 2014. Retracted: Seismic response of mid-rise buildings on shallow and end-bearing pile foundations in soft soil. *Soils and Foundations* 54, 345–363.  
<https://doi.org/10.1016/j.sandf.2014.04.020>
- Hussein, A., Naggar, M.E.E., 2021. Seismic behaviour of piles in non-liquefiable and liquefiable soil. *Bulletin of Earthquake Engineering* 20, 77–111.  
<https://doi.org/10.1007/s10518-021-01244-4>
- Jalil, A., Fathani, T.F., Satyarno, I., Wilopo, W., 2021. Equivalent-linear seismic ground response analysis in Palu area. *IOP Conf. Ser.: Earth Environ. Sci.* 930, 012089.  
<https://doi.org/10.1088/1755-1315/930/1/012089>
- Joseph E. Bowles, 1997. *Foundation Analysis And Design*, Kelima. Ed, Fifth Edition. Mcgraw-Hill, Singapore.

- Kramer, S.L., 1996. Geotechnical Earthquake Engineering.
- Kristiadi, K., Wijaya, C.C., Wahyuni, M., Karlinasari, R., 2023. Interpretasi Hasil CPTu Untuk Menghitung Penurunan Konsolidasi Primer dan Daya Dukung Pondasi Dangkal Pada Tanah Lunak. *Jurnal Teknik Sipil* 6, 109–127. <https://doi.org/10.24167/gsmart.v6i2.4809>
- Le Bao Quoc, 2025. An Evaluation Of Single Pile And Pile Group Behavior Under Seismic Loading In Soft Ground: An Evaluation Of Single Pile And Pile Group Behavior Under Seismic Loading In Soft Ground. *Jomc* 15. <https://doi.org/10.54772/jomc.v15i01.988>
- Mayne, P.W., Rix, G.J., 1995. Correlations Between Shear Wave Velocity and Cone Tip Resistance in Natural Clays. *Soils and Foundations* 35, 107–110. [https://doi.org/10.3208/sandf1972.35.2\\_107](https://doi.org/10.3208/sandf1972.35.2_107)
- Meyerhof, G.G., 1956. Penetration Tests and Bearing Capacity of Cohesionless Soils. *Journal of the Soil Mechanics and Foundations Division*.
- Nikson, A., 2021. Pengaruh Karakteristik Rekaman Gempa Terhadap Rerspon Spektrum. *JRS* 10, 8. <https://doi.org/10.22441/jrs.2021.v10.i1.02>
- Nurvita, R.S., Sulaeman, A., Siregar, C.A., 2023. Kajian Kekuatan Tanah Kecamatan Dayeuhkolot Dengan Menggunakan Data Index Properties Dan Mechanical Properties. *simteks* 3, 28. <https://doi.org/10.32897/simteks.v3i1.2465>
- Peng, X.-B., Ren, W.-J., Li, T.-Q., Xue, Y.-Y., Tao, X.-S., Xu, L.-Y., 2024. Seismic response of deep soft soil sites with varying shear wave velocities. *Front. Earth Sci.* 12, 1488519. <https://doi.org/10.3389/feart.2024.1488519>
- Peta Gempa, 2017. *Buku Sumber Dan Bahaya Gempa Indonesia Tahun 2017*. Pusat Penelitian dan Pengembangan Perumahan dan Permukiman Badan Penelitian dan Pengembangan Kementerian Pekerjaan Umum dan Perumahan Rakyat.

- Prawirodirjo, 2000. (PDF) One century of tectonic deformation along the Sumatran fault from triangulation and GPS surveys. ResearchGate. <https://doi.org/10.1029/2000JB900150>
- Puri, N., Jain, A., Mohanty, P., Bhattacharya, S., 2018. Earthquake Response Analysis of Sites in State of Haryana using Deepsoil Software. *Procedia Computer Science* 125, 357–366. <https://doi.org/10.1016/j.procs.2017.12.047>
- Rayhani, M.H., El Naggar, M.H., 2008. Numerical Modeling of Seismic Response of Rigid Foundation on Soft Soil. *Int. J. Geomech.* 8, 336–346. [https://doi.org/10.1061/\(ASCE\)1532-3641\(2008\)8:6\(336\)](https://doi.org/10.1061/(ASCE)1532-3641(2008)8:6(336))
- Riani, D.P., Sri Wulandari, S., 2022. Interaksi Tanah-Struktur Dinding Basement Akibat Tekanan Lateral Pada Tanah Lempung Berlanau. *dekons* 21, 92–100. <https://doi.org/10.35760/dk.2022.v21i1.3764>
- Risa, I.N., Maison, M., Dewi, I.K., 2023. Analisis Kerentanan Tanah Berdasarkan Pengukuran Mikrotremor Di Desa Jati Mulyo, Tanjung Jabung Timur. *Jge* 9, 18–31. <https://doi.org/10.23960/jge.v9i1.236>
- Sari, E., Mase, L.Z., Hardiansyah, H., Misliniyati, R., Amri, K., 2024. Implementasi Metode Linier Ekuivalen Dan Nonlinier Dalam Memprediksi Respons Seismik Area Kampung Melayu, Kota Bengkulu. *Jurnal Geosaintek* 10, 159–172. <https://doi.org/10.12962/j25023659.v10i2.1723>
- Seed, H.B., Idriss, I.M., 1971. Simplified Procedure for Evaluating Soil Liquefaction Potential. *Journal of the Soil Mechanics and Foundations Division* 97, 1249–1273. <https://doi.org/10.1061/JSFEAQ.0001662>
- Silitonga, B., 2022. Pengukuran Seismik Dengan Metode HVSR Untuk Pendugaan Bencana Gempa Bumi. *JRKMS* 5, 103–111. <https://doi.org/10.54367/jrkms.v5i2.2184>
- SNI 03-1726:2019, n.d. SNI 03-1726:2019 Tata cara perencanaan ketahanan gempa untuk struktur bangunan gedung dan nongedung.

- Ter-Martirosyan, A., Anh, L.D., 2020. Calculation of the settlement of pile foundations taking into account the influence of soil liquefaction. IOP Conference Series: Materials Science and Engineering 869. <https://doi.org/10.1088/1757-899x/869/5/052025>
- Terzaghi, K., Peck, R.B., Mesri, G., 1996. Mekanika Tanah dalam Praktik Teknik. New York.
- Wibisono, A.H., Ahadi, R.W., Al Ghifari, S., Dani, I., Rasimeng, S., 2021. Penentuan Episentrum dan Hiposentrum Gempa Bumi Menggunakan Metode Grid Search di Antelope Valley, California. Geoelebes 173–181. <https://doi.org/10.20956/geoelebes.v5i2.14635>
- Zienkiewicz, O.C., Taylor, R.L., 2000. The finite element method, 5th ed. ed. Butterworth-Heinemann, Oxford ; Boston.