

DAFTAR PUSTAKA

- Agustina, Selvia. 2016. Potensi Likuefaksi dan prediksi Penurunan Tanah Setelah Gempa di Kota Yogyakarta dan Kabupaten Bantul. Yogyakarta: Departemen Teknik Sipil dan Lingkungan Fakultas Teknik Universitas Gadjah Mada.
- Ameratunga, J., Sivakungan, N., dan Das, Braja M. 2016. "Correlation of Soil and Rock Properties in Geotechnical Engineering", Springer India, New Delhi.
- Andiny, A. N., Faris, F., dan Adi, A. D. 2021. Re-liquefaction Hazard Evaluation in Flow-Slide Affected Area of Jono Oge, Central Sulawesi, Indonesia. IOP Conference Series: Earth and Environmental Science, 861(5)
- Andrus, R.D. et al., 2004. Comparing Liquefaction Evaluation Methods Using Penetration-Vs Relationships. Soil Dynamics & Earthquake Engineering, 24, pp.713-721.
- Ariska, R., 2013. Development of Strong-motion Database for The Sumatra-Java Region. The Australian National University, Master of Philosophy Thesis
- AS 4678-2002, Earth retaining structures, Australian Standard.
- Aydan O 2008 Seismic and Tsunami Hazard Potentials in Indonesia with a special emphasis on Sumatra Island, Journal of the School of Marine Science and Technology – Tokai University (Japan), Vol. 6, No. 3, pp. 19 – 38
- Badan Geologi. 2019. Atlas Zona Kerentanan Likuefaksi Indonesia Edisi Pertama. Bandung: Badan Geologi. Kementerian ESDM.
- Barlett, S.F., Gerber, A.P. & Hinckley, D., 2007. Probabilistic Liquefaction Potential and Liquefaction Induced Ground Failure Map for The Urban Wasatch Front. Collaborative Research. USA: Universitas of Utah and Brigham Young University.
- Boatwright, J., Thywissen, K. dan Seekins, L.. Correlation of ground motion and intensity for the 17 January 1994 Northridge, California earthquake. Bull. Sism. Soc. Am. 91 (2001), p. 739-752
- Bong, Taeho. 2017. Spatial Variability of CPT Parameters and Silty Fines in Liquefiable Beach Sands. ASCE.
- Boore, D.M. dan Atkinson, G.M., 2008. Ground-motion prediction equations for the average horizontal component of PGA, PGV, and 5%-damped PSA at spectral periods between 0.01 s and 10.0 s. Earthquake Spectra, 24(1), pp.99-138.
- Bowles, Joseph E. (1997). Foundation Analysis and Design. (5th Edition). Singapore: McGraw-Hill Book.
- Campbell, K.W. dan Bozorgnia, Y., 2008. NGA ground motion model for the geometric mean horizontal component of PGA, PGV, PGD and 5% damped linear elastic response spectra for periods ranging from 0.01 to 10 s. Earthquake Spectra, 24(1), pp.139-171.
- Chiou, B., Darragh, R., Gregor, N. dan Silva, W., 2008. NGA project strong-motion database. Earthquake Spectra, 24(1), pp.23-44.
- Cox, B.R. dan Griffiths, S.C. 2011. Practical Recommendations for Evaluation and Mitigation of Soil Liquefaction in Arkansas. Project Report MBTC 3017, 175pp.

- Day, R. W. 2002. *Geotechnical Earthquake Engineering Handbook*, Mc Graw-Hill. New York: USA. Foundations Division, ASCE, Vol. 95, No. SM5, pp. 1199-1218
- Dikmen, Unal. 2009. Statistical correlations of shear wave velocity and penetration resistance for soils. *Journal of Geophysics and Engineering*.
- Donovan, N. C. 1973. A statistical evaluation of strong motion data including the February 9, 1971 San Fernando earthquake. Pages 1252-1261 of: *Proceedings of Fifth World Conference on Earthquake Engineering*, vol. 1.
- Douglas, Jhon. 2011. Ground-motion prediction equations 1964-2010. PEER Report 2-11/102 Pacific Earthquake Engineering Research Center College of Engineering University of California, Berkeley April 2011.
- Elkhairat, Wafa. 2020. Analisis Fondasi Tiang Pancang Pada Jembatan Padang Sarai, Kota Padang. Departemen Teknik Sipil dan Lingkungan, Fakultas Teknik, Universitas Gadjah Mada. Yogyakarta.
- Feng Z J, Zhang C, dan He J B. 2021. Shaking table test of time-history response of rock-socketed single pile under strong earthquake. *Rock and Soil Mechanics*, vol. 2021, no. 12, pp. 42–51.
- Hadi, Arif Ismul dan Brotopuspito, Kirbani Sri. 2015. Probabilistic Seismic Hazard Analysis (PSHA) Pemetaan Percepatan Getaran Tanah Maksimum Menggunakan Pendekatan Probabilistic Seismic Hazard Analysis (PSHA) Di Kabupaten Kepahiang Provinsi Bengkulu. *Berkala Fisika*, 18.3 (2015), 101–12.
- Hall, R. 2011. *Australia–SE Asia Collision: Plate Tectonics and Crustal Flow* Geological Society, London, Special Publications 355, 75-109
- Hardiyatmo, Hary Christady. (2020). *Analisis dan Perancangan Fondasi I* (Edisi Keempat). Yogyakarta: Gadjah Mada University Press.
- Hardiyatmo, Hary Christady. (2022). *Analisis dan Perancangan Fondasi II* (Edisi Kelima). Yogyakarta: Gadjah Mada University Press.
- Hardiyatmo, H. C. (2022). *Rekayasa Gempa untuk Analisis Struktur & Geoteknik*. Yogyakarta: Gadjah Mada University Press.
- Heidari, Tahereh. 2012. Liquefaction Potential Assessment of Pleistocene Beach Sands near Charleston, South Carolina. *Journal of Geotechnical and Geoenvironmental Engineering*.
- Hermansyah, Didiek. 2018. *SETTLEMENT (PENURUNAN)* (Rangkaian dan pembahasan serta penjelasan tentang settlement). Yogyakarta.
- Idriss dan Boulanger. 2008. *Soil Liquefaction During Earthquake*. California: Earthquake Engineering Research Institute.
- Ikou Tohwata, 2008, *Geotechnical Earthquake Engineering*, Springer.
- Ishihara, K., dan Yoshimine, M. (1992). "Evaluation of settlements in sand deposits following liquefaction during earthquakes." *Soils Found.*, 32(1), 173-188.
- Iwasaki, T.; Tokida, K.; dan Tatsuoka, F., "Soil Liquefaction Potential Evaluation with Use of the Simplified Procedure" (1981). *International Conferences on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*. 12
- Jefferies, Mike dan Been, Ken. 2016. *Soil Liquefaction: A Critical Approach*. 2nd Eds, CRC Press.

- Kanno, T., Narita, A., Morikawa, N., Fujiwara, H., & Fukushima, Y. 2006. A new attenuation relation for strong ground motion in Japan based on recorded data. *Bulletin of the Seismological Society of America*, 96(3), 879-897.
- Kirbani S.B., T.Prasetya, dan F.M. Widigdo, 2006. Percepatan Getaran Tanah Maksimum Daerah Istimewa Yogyakarta 1943 – 2006. *Jurnal Geofisika* 2006/1.
- Kramer, Steven L. 1996. *Geotechnical Earthquake Engineering*. Pearson Education.
- Kuningsih, Tri Wahyu dan Wulansari, Dwi Novi. 2018. Pemetaan Potensi Likuefaksi di Kompleks Candi Prambanan. *Jurnal Kajian Teknik Sipil Volume 3 Nomor 2*
- Kusumawardani, Baiq Nora, dkk. 2020. Analisis PGA (Peak Ground Acceleration) Pulau Lombok menggunakan Metode Pendekatan Empiris. *Jurnal Fisika dan Aplikasinya* vol. 16, no. 3, hlm. 122-127, 2020
- Lin, P.-S., & Lee, C.T. 2008. Ground-Motion Attenuation Relationships for Subduction-Zone Earthquakes in Notherneastern Taiwan. *Bulletin of the Seismological Society of America*, 98(1), 220-240.
- Maramis, Clarita dkk. 2020. Analisis Percepatan Tanah Maksimum Akibat Adanya Gempa Bumi di Lengan Utara Pulau Sulawesi Menggunakan Metode Fukushima Tanaka. *FMIPA UNSRAT*
- Mase, L. Z. (2018). Studi Kehandalan Metode Analisis Likuefaksi Menggunakan SPT Akibat Gempa 8, 6 Mw, 12 September 2007 di Area Pesisir Kota Bengkulu. *Jurnal Teknik Sipil*, 25(1), 53-60.
- Mase, L. Z., Farid, M., Sugianto, N., dan Agustina, S. 2020. The Implementation of Ground Response Analysis to Quantify Liquefaction Potential Index (LPI) in Bengkulu City. *Indonesia Journal of the Civil Engineering Forum* 6(3), 319
- Massinai, M.A., Sudradjat, A., Lantu. The influence of seismic activity in South Sulawesi area to the geomorphology of Jeneberang Watershed. *Int. J. Eng. and Tech.* 10 (2013), p. 945-948.
- McGuire, R. K. 1974. Seismic structural response risk analysis, incorporating peak response regressions on earthquake magnitude and distance. Research Report R74-51. Massachusetts Institute of Technology, Department of Civil Engineering, Cambridge, USA. Not seen
- Meyerhof, G. G. (1976). Bearing Capacity and Settlement of Pile Foundations. *Journal of Geotechnical Engineering*, ASCE, 102, 195-228.
- Mike Jefferies and Ken Been, 2016, *Soil Liquefaction: A Critical Approach*, 2nd Eds, CRC Press.
- Muhanifah, H., Adi, A. D., dan Faris, F. 2021. Liquefaction Investigation of Balaroa, Central Sulawesi on Liquefied and Non-Liquefied Areas. *IOP Conference Series: Earth and Environmental Science*, 861(5).
- Nemas, Dian Pratiwi. 2015. Likuefaksi dan Dampak Terhadap Bangunan Sipil. www.academia.edu. Access time: 21 Oktober 2022.
- New Zealand Geotechnical Society (NZGS) dan Ministry of Business, Innovation & Employment (MBIE) *Earthquake Geotechnical Engineering Practice in New Zealand*. 2017. Earthquake geotechnical engineering practice module 5: Ground improvement of soils prone to liquefaction.

- Pasau, Guntur dkk. 2018. Model Percepatan Tanah Maksimum di Kota Manado Menggunakan Metode Donovan dan McGuire. Jurnal MIPA Unsrat Online 7 (1) 52-55.)
- Pramaditya, A. dan Fathani, T. F. 2020. Physical Modelling of Earthquake-induced Liquefaction on Uniform Soil Deposit and Settlement of Earth Structures. Journal of the Civil Engineering Forum, 1000(1000)
- Pertiwi, Balqis Sukma. 2019. Evaluasi Kuat Dukung Fondasi Tiang Bor Terhadap Potensi Likuefaksi Studi Kasus: Gedung Main Powerhouse Yogyakarta International Airport. Departemen Teknik Sipil dan Lingkungan, Fakultas Teknik, Universitas Gadjah Mada. Yogyakarta.
- PT. SOILENS. 2021. Laporan Penyelidikan Tanah untuk Proyek Kawasan Pantai Malalayang dan Penataan Ecotourism Village Bunaken Sulawesi Utara Indonesia. PT. SOILENS.
- Pusat Gempabumi dan Tsunami. 2019. Katalog Gempabumi Signifikan dan Merusak Tahun 1821 - 2018. Cetakan Pertama. Pusat Gempabumi dan Tsunami Kedeputan Bidang Geofisika Badan Meteorologi Klimatologi dan Geofisika
- Pusat Vulkanologi dan Mitigasi Bencana Geologi. 2015. Buklet Gempabumi dan Tsunami. Pusat Vulkanologi dan Mitigasi Bencana Geologi, Badan Geologi, Kementerian Energi dan Sumber Daya Mineral.
- Rini, V. S. 2015. Kajian Awal Persamaan Prediksi Percepatan Tanah di Zona Subduksi Wilayah Bali dan Sekitarnya. Sekolah Tinggi Meteorologi Klimatologi dan Geofisika.
- Robert W. Day, 1996, Geotechnical Earthquake Engineering Handbook, McGraw Hill.
- Rocscience Inc Team. 2022. RS Pile User Guide: Driven Pile Verification Manual. Rocscience Inc.
- Rocscience Inc Team. 2022. Settle3 User Guide: Settlement and consolidation analysis Theory Manual. 2007-2022 Rocscience Inc.
- Seed, H.B., dan Harder, L.F., Jr. 1990. SPT-based analysis of cyclic pore pressure generation and undrained residual strength. In Proceedings of the H.B. Seed Memorial Symposium, Bi-Tech Publishing Ltd., Vol. 2, pp. 351-376.
- Seed, H. B. dan Idriss, I. M. 1971. Simplified Procedure for Evaluation Soil Liquefaction Potential. Journal of Soil Mechanics and Foundation: Division, ASCE, vol. 97, No.9, pp 1249-1273
- Seed, H. B., Tokimatsu, K., Harder, L. F., dan Chung, R. M. 1985. Influence of SPT Procedures in Soil Liquefaction Resistance Evaluations. Journal of Geotechnical Engineering 111(12)
- Shahzad, Sulastri Shahzad, dkk. 2016. Pendekatan Probabilistik Untuk Penilaian Bahaya Gempabumi Kawasan Universitas Padjajaran Jatinangor Pendekatan Probabilistik Untuk Penilaian Bahaya Gempabumi Kawasan.
- SNI 1726:2019. 2019. Tata Cara Perencanaan Ketahanan Gempa untuk Struktur Bangunan Gedung dan Nongedung. Jakarta: Badan Standarisasi Indonesia.
- SNI 1727-2020. 2020. Beban Desain Minimum dan Kriteria Terkait untuk Bangunan Gedung dan Struktur Lain. Jakarta: Badan Standardisasi Indonesia.

- SNI 8460-2017. 2017. Persyaratan Perancangan Geoteknik. Jakarta: Badan Standardisasi Indonesia.
- Socquet, A., Simons, W., Vigny, C., dan Mccaffrey, R. 2006. Microblock Rotations and Fault Coupling in SE Asia Triple Junction (Sulawesi, Indonesia) From GPS and Earthquake Slip Vector Data Journal of Geophysical Research Atmospheres 111(B8)
- Terzaghi, K dan Peck, R.B (1967), "Soil Mechanics in Engineering Practice". Jhon Willey, New York.
- Tjahjono, Boedi. 2016. Analisis Risiko Gempabumi Di Cilacap Provinsi Jawa Tengah Earthquake Risk Analysis In Cilacap, Central Java Province. 18.April (2016), 28–34
- Towhata, I. 2008. Geotechnical Earthquake Engineering. (1st Edition). Tokyo: Springer-Verlag Berlin Heidelberg.
- Ulfiana, E., Rummy, Said A., Pratama, R., dan Ariyanto, P. 2018. Analisis Pendekatan Emperis PGA (Peak Ground Acceleration) Pulau Bali Menggunakan Metode Donovan, Mc. Guirre, dan M.V. Mickey). Departemen Fisika FMIPA Universitas Padjadjaran. Jurnal Ilmu dan Inovasi Fisika Vol. 02, No. 02 (2018) 87-93
- W. Partono, M. Irsyam, S. P. Retno Wardani, and S. Maarif. 2015. Persepsi Pengembangan Peta Rawan Gempa Kota Semarang Melalui Penelitian Hazard Gempa Deterministik. TEKNIK, vol. 36, no. 1, pp. 24-31, Jul. 2015.
- Wahidin, Suci A.N. 2021. Analisis Potensi Likuefaksi Berdasarkan Data N-SPT di Kota Palu Sulawesi Tengah. Program Studi Magister Teknik Pengelolaan Bencana Alam, Departemen Teknik Sipil dan Lingkungan, Fakultas Teknik, Universitas Gadjah Mada. Yogyakarta.
- Whittaker D.N, dan Reddish D.J, (1989), "Subsidence Occurence, Prediction and Control", DME Univ of Nottingham, Elsevier, New York, p 359-376
- Widiwijayanti, C., C. Tiberi, C. Deplus, M. Diament, V.Mikhailov, and R. Louat. 2004. Geodynamic evolution of the northern Molucca Sea area (Eastern Indonesia) constrained by 3-D gravity field inversion. Tectonophysics, 386, 203–222.
- Widyatmoko, Aji. 2022. Analisis Potensi Dan Mitigasi Likuefaksi Bangunan Pengendali Sedimen Sungai Paneki. Program Studi Magister Teknik Pengelolaan Bencana Alam, Departemen Teknik Sipil dan Lingkungan, Fakultas Teknik, Universitas Gadjah Mada. Yogyakarta.
- Yoshimine, M., Nishizaki, H., Amano, K., dan Hosono, Y., 2006. Flow deformation of liquefied sand under constant shear load and its application to analysis of flow slide in infinite slope, Soil Dynamics and Earthquake Eng. 26, 253–264.
- Youd, T. Leslie, Andrus, Ronald D., Idriss, I.M., Castro, Gonzalo. 2001. Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshop on Evaluation Resistance of Soils. USA: Journal of Geotechnical and Geoenvironmental Engineering.
- Youd, T. Leslie. 1979. Liquefaction Potential Map of San Fernando Valley, California. California: American Society of Civil Engineers.

- Youngs, R. R., Day, S. M., & Stevens, J. L. 1988. Near field ground motions on rock for large subduction earthquakes. Pages 445–462 of: *Proceedings of Earthquake Engineering & Soil Dynamics II*. Geotechnical Division, ASCE
- Youngs, R.R., Chiou, S.J., Silva, W.J. dan Humphrey, J.R., 1997. Strong ground motion attenuation relationships for subduction zone earthquakes. *Seismological Research Letters*, 68(1), pp.58-73.
- Zhang, Cong et al. 2022. Study on Liquefaction Resistance of Pile Group by Shaking Table Test. *Hindawi Advances in Civil Engineering Volume 2022*
- Zhang, G., Robertson, P.K. & Brachman, R.W.I., 2002. Estimation Liquefaction Induced Ground Settlement from CPT for Level Ground. *Canadian Geotechnical Journal*, 39, pp.1168-11680.
- Zhao, J.X., Irikura, K., Zhang, J., Fukushima, Y., Somerville, P.G., Asano, A., Ohno, Y., Oouchi, T., Takahashi, T. dan Ogawa, H., 2006. An empirical site-classification method for strong-motion stations in Japan using H/V response spectral ratio. *Bulletin of the Seismological Society of America*, 96(3), pp.914-925.
- Zhou, ChangXian. 2019. Review on Seismic Liquefaction of Seabed Soil. IOP Publishing.
- Zhou, X L. dan Wang, J H. 2009. Analysis of pile groups in a poroelastic medium subjected to horizontal vibration. *Computers and Geotechnics*, vol. 36, no. 3, pp. 406–418.