

REFERENCES

- Andiny, A. N., Faris, F., & 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).
- Azizi, F., 2000, Applied Analyses in Geotechnics, First edition, E & FN SPON.
- Badan Informasi Geospasial, 2021, Central Sulawesi Province Map. <https://Tanahair.Indonesia.Go.Id/Portal-Web/Download/Perwilayah>.
- Badan Standardisasi Nasional, 2019. SNI 1726-2019 Tata Cara Perencanaan Ketahanan Gempa Untuk Struktur Bangunan Gedung dan Non Gedung. Jakarta: Badan Standardisasi Nasional.
- Balai Wilayah Sungai Sulawesi III, 2021, Groundwater level monitoring on Palu City and Sigi District.
- Bao, H., Ampuero, J. P., Meng, L., Fielding, E. J., Liang, C., Milliner, C. W. D., Feng, T., and Huang, H., 2019, Early and persistent supershear rupture of the 2018 magnitude 7.5 Palu earthquake, Nature Geoscience, 12(3), 200–205.
- Bowles, J. E., 1997, Foundation Analysis and Design, Fifth edition. The McGraw-Hill Companies, Singapore.
- Bradley, K., Mallick, R., Andikagumi, H., Hubbard, J., Meilianda, E., Switzer, A., Du, N., Brocard, G., Alfian, D., Benazir, B., Feng, G., Yun, S. H., Majewski, J., Wei, S., and Hill, E. M., 2019, Earthquake-triggered 2018 Palu Valley landslides enabled by wet rice cultivation, Nature Geoscience, 12(11), 935–939.
- Brinkgreve, R. B. J., 2002, Manual Plaxis 2D - Version 8, A.A. Balkema Publishers, Netherlands.
- Committee CE-032, 2001. AS 4678-2002 Australian Standard Earth-retaining Structures. Sydney: Standards Australia International Ltd.
- Day, R. W., 2012, Geotechnical Earthquake Engineering Handbook: with The 2012 International Building Code, McGraw-Hill Education.
- Douglas, J., 2011, Ground-motion prediction equations 1964-2010, Pacific Earthquake Engineering Research Center PEER 2011/102, 455.
- Garcia-Chevesich, P., Wei, X., Ticona, J., Martínez, G., Zea, J., García, V., Alejo, F., Zhang, Y., Flamme, H., Graber, A., Santi, P., McCray, J., Gonzáles, E., and Krahenbuhl, R., 2021, The impact of agricultural irrigation on landslide triggering: A review from chinese, english, and Spanish literature, Water (Switzerland), 13(1), 1–17.
- Hardiyatmo, H. C., 2002, Mekanika Tanah I, Gadjah Mada University Press, Yogyakarta.
- Hazarika, H., Rohit, D., Pasha, S. M. K., Maeda, T., Masyhur, I., Arsyad, A., and Nurdin, S., 2021, Large distance flow-slide at Jono-Oge due to the 2018 Sulawesi Earthquake, Indonesia, Soils and Foundations, 61(1), 239–255.
- Idriss, I. M., and Boulanger, R. W., 2008, Soil liquefaction during earthquakes, Earthquake Engineering Research Institute, 160(4057), 43.

- Jalil, A., Fathani, T. F., Satyarno, I., & Wilopo, W., 2021, Nonlinear site response analysis approach to investigate the effect of pore water pressure on liquefaction in Palu, IOP Conference Series: Earth and Environmental Science, 871(1).
- Japanese Geotechnical Society, 1998, Remedial Measures Against Soil Liquefaction: From Investigation and Design to Implementation, (Vol. 148), CRC Press, New York.
- Khatimah, N. H., 2021, Analisis Potensi Likuefaksi pada Bangunan Underpass Bandara YIA berdasarkan Simulasi Numeris, Thesis, Universitas Gadjah Mada.
- Kiyota, T., Furuichi, H., Hidayat, R. F., Tada, N., and Nawir, H., 2020 Overview of long-distance flow-slide caused by the 2018 Sulawesi earthquake, Indonesia, Soils and Foundations, 60(3), 722–735.
- Kramer, S. L., 1996, Geotechnical Earthquake Engineering, Prentice-Hall, Inc., New Jersey.
- Kramer, S. L., 2013, Encyclopedia of Earth Sciences Series: Encyclopedia of Natural Hazards, pp. 594–601, Springer.
- Lees A, 2016, Geotechnical finite element analysis: a practical guide, ICE Publishing, London.
- Lindeburg, M., 2011, Civil Engineering Reference Manual for the PE exam., Professional Publications, Inc., California.
- Look, B. G., 2007, Handbook Of Geotechnical Investigation And Design Tables, Taylor & Francis/ Balkema, Leiden.
- Mason, H. B., Gallant, A. P., Hutabarat, D., Montgomery, J., Reed, A. N., Wartman, J., Irsyam, M., Prakoso, W., Djarwadi, D., Harnanto. D., Alatas, I., Rahardjo, P., Simatupang, P., Kawanda, A., and Hanifa, R., 2019, Geotechnical Reconnaissance: The 28 September 2018 M7.5 Palu-Donggala, Indonesia Earthquake, Geotechnical Extreme Events Reconnaissance Association, Atalanta.
- Ministry of Public Work and Housing, 2013, Standar Perencanaan Irigasi, Kriteria Perencanaan Jaringan Irigasi (KP-03).
- Ministry of Public Work and Housing, 2015, Laporan Akhir Pekerjaan SID Rehabilitasi Dareah Irigasi Gumbasa Tahap II Kabupaten Sigi (4073 Ha).
- Ministry of Public Work and Housing, 2019, Paparan Penanganan Daerah Irigasi Gumbasa Pasca Gempa Bumi dan Likuifaksi.
- Ministry of Public Work and Housing, 2021, Gumbasa Irrigation Drawing - Package 2.
- New Zealand Geotechnical Society, 2017, Geotechnical Earthquake Engineering Practice - Module 5: Ground improvement of soils prone to liquefaction, In MBIE Geotechnical Earthquake Engineering Practice (Vol. 6), <http://www.springerlink.com/index/10.1007/978-1-4020-5893-6>.
- Orense, P. R., Pender, M. J., and Wotherspoon, L. M., 2012, Analysis of soil liquefaction during the recent canterbury (New Zealand) earthquakes, Geotechnical Engineering, 43(2), 8–17.
- Otsushi, K., Kato, T., Hara, T., Yashima, A., Otake, Y., Sakanashi, K., and Honda, A., 2010, Analytical study on mitigation of liquefaction-related damage to flume

- channel using sheet-pile with drain, GeoFlorida 2010: Advanced in Analysis, Modeling & Design, 3062–3071.
- PuSGeN, 2017, Peta Sumber Dan Bahaya Gempa Indonesia Tahun 2017. Pusat Penelitian dan Pengemabangan Perumahan dan Permukiman, Badan Penelitian dan Pengembangan, Kementerian Pekerjaan Umum dan Perumahan Rakyat, Bandung.
- PuSGeN, 2021, Desain Spektra Indonesia, 1 Desember 2021, <http://rsa.ciptakarya.pu.go.id/2021/>
- Republik Indonesia, 2008, Peraturan Pemerintah Republik Indonesia Nomor 21 Tahun 2008 tentang Penyelenggaraan Penanggulangan Bencana (p. 52).
- S.Wulandari, P., and Tjandra, D., 2006, Determination of optimum tensile strength of geogrid reinforced embankment, International Civil Engineering Conference “Towards Sustainable Civil Engineering Practice”, 187–194.
- Seed, R. B., Cetin, K. O., Moss, R. E., Kammerer, A. M., Wu, J., Pestana, J. M., Riemer, M. F., Sancio, R. B., Bray, J. D., Kayen, R. E., and Faris, A., 2003, Recent advances in soil liquefaction engineering: a unified and consistent framework, Proceedings of the 26th Annual ASCE Los Angeles Geotechnical Spring Seminar: Long Beach, CA., 3.
- Socquet, A., Hollingsworth, J., Pathier, E., and Bouchon, M., 2019, Evidence of supershear during the 2018 magnitude 7.5 Palu earthquake from space geodesy. *Nature Geoscience*, 12(3), 192–199.
- Sonmez, H., and Gokceoglu, C., 2005, A liquefaction severity index suggested for engineering practice, *Environmental Geology*, 48(1), 81–91.
- Sukanto, R., 1973, Peta Geologi Tinjau Lembar Palu, Sulawesi, Pusat Penelitian dan Pengembangan Geologi.
- Sukido, Sukarna, D., and Sutisna, K., 1993, Peta Geologi Lembar Pasangkayu, Sulawesi. Pusat Penelitian dan Pengembangan Geologi.
- Tondi, K. M., 2019, Deskripsi dampak gempa bumi dan likuifaksi terhadap petani di desa jono oge kabupaten sigi propinsi sulawesi tengah. *Agroland Jurnal Ilmu-Ilmu Pertanian*, 26(2), 148.
- Watkinson, I. M., and Hall, R., 2019, Impact of communal irrigation on the 2018 Palu earthquake-triggered landslides. *Nature Geoscience*, 12(11), 940–945.
- Yasuda, S., and Hashimoto, T., 2016, New project to prevent liquefaction-induced damage in a wide existing residential area by lowering the ground water table, *Soil Dynamics and Earthquake Engineering*, 91(March), 246–259.
- Zeffitni, 2010, Potensi airtanah berdasarkan karakteristik airtanah pada setiap satuan hidromorfologi di cekungan airtanah Palu, MEKTEK, XII(2).