

## DAFTAR PUSTAKA

- Agustina, S., 2016. 'Potensi Likuefaksi dan Prediksi Penurunan Tanah Setelah Gempa di Kota Yogyakarta dan Kabupaten Bantul', *Tesis*, . Universitas Gadjah Mada, Yogyakarta.
- Andrus, R.D., Piratheepan, P., Ellis, B.S., Zhang, J., and Juang, C.H., 2003. Comparing Liquefaction Evaluation Methods Using Penetration-VS Relationships.
- Anis, M. and Jawaid, S.M.A., 2016. Seismic Slope Stability. *International Journal of Computational Engineering Research (IJCER)*, **06**: .
- Anwar, T.H., 2019. 'Tugas Akhir Review dan Evaluasi Desain Timbunan Jalan Tol Cileunyi - Sumedang - Dawuan Pada STA. 22+700 Menggunakan Software Plaxis V 8.6'. Universitas Gadjah Mada, Yogyakarta.
- Ashford, S., 2013. 'Reducing Seismic Risk to Highway Mobility: Assessment and Design Examples for Pile Foundations Affected by Lateral Spreading'.
- Badan Geologi, 2019. Atlas Zona Kerentanan Likuefaksi Indonesia.
- Bina Marga PUPR, 2022. 'Aplikasi LINI versi Beta'. URL: <http://lini.binamarga.pu.go.id/> (diakses tanggal 23/5/2022).
- BMKG, 2022. 'Indonesia Tsunami Early Warning System - InaTEWS :'. URL: [http://inatews2.bmkg.go.id/new/tentang\\_eq.php](http://inatews2.bmkg.go.id/new/tentang_eq.php) (diakses tanggal 6/6/2022).
- Bowles, J.E., 1996. *Foundation Analysis and Design*, 5th ed. ed. McGraw-Hill, New York.
- BPJT, 2021. 'Mulai Konstruksi, Tol Solo - Yogyakarta - Bandara YIA Kulon Progo Tingkatkan Konektivitas Destinasi Pariwisata Super Prioritas Borobudur'. URL: <https://bpjt.pu.go.id/berita/mulai-konstruksi-tol-solo-yogyakarta-bandara-yia-kulon-progo-tingkatkan-konektivitas-destinasi-pariwisata-super-prioritas-borobudur> (diakses tanggal 7/12/2021).
- BPS Kabupaten Klaten, 2020. *Kecamatan Polanharjo Dalam Angka 2020*. BPS Kabupaten Klaten, Klaten.
- BPS Kabupaten Klaten, 2022. *Kabupaten Klaten Dalam Angka 2022*. Klaten.
- Brinkgreve, R.B.J., 2007. *Plaxis 2D - Versi 8*. Technical University of Delft, Belanda.
- Castro, J., 2017. Modeling Stone Columns. *Materials*, **10**: 782.
- Chen, W.-F. dan Scawthorn, C., 2003. *Earthquake Engineering Handbook*. CRC Press LLC.
- Das, B.M., 2007. *Principles of Foundation Engineering*, Seventh. ed. Cengage Learning, USA.
- Das, B.M. and Rahmana, G.V., 2011. *Principles of Soil Dynamics Second Edition*. Cengage Learning, Stamford CT.
- Day, R.W., 2012. *Geotechnical Earthquake Engineering Handbook With the 2012 International Building Code*, Second. ed. McGraw-Hill.
- Departemen Permukiman dan Prasarana Wilayah, 2002. 'Panduan Geoteknik 4 Desain dan Konstruksi', Timbunan Jalan pada Tanah Lunak1. Departemen Permukiman dan Prasarana Wilayah, Jakarta.
- Duarte, J. and Schellart, W., 2016. Introduction to Plate Boundaries and Natural Hazards, dalam: *Plate Boundaries and Natural Hazards*. hal. 352 pages.
- Emanuela, Y., 2019. 'Analisis Potensi Likuefaksi Tanah Dengan Data SPT dan Data CPT (Studi Kasus Underpass Jalan Brigjen Katamso - AH Nasution Medan)'. Universitas Sumatera Utara, Medan.

- Fathani, T.F., Adi, A.D., Pramumijoyo, S., dan Karnawati, D., 2006. The Determination of Peak Ground Acceleration at Bantul Regency, Yogyakarta Province, Indonesia. *The Yogyakarta Earthquake Of May 27, 2006*, 12-1-12-15.
- Green, R.A. and Bommer, J.J., 2019. What is the Smallest Earthquake Magnitude that Needs to be Considered in Assessing Liquefaction Hazard? *Earthquake Spectra*, 35: 1441-1464.
- Hakam, A. dan Darjanto, H., 2013. Penelusuran Potensi Likuefaksi Pantai Padang Berdasarkan Gradasi Butiran dan Tahanan Penetrasi Standar. *Jurnal Teknik Sipil*, Vol. 20 No. 1: 6.
- Hardiyatmo, H.C., 2018. *Mekanika Tanah 2*, Edisi Keenam. ed, Edisi Keenam. Gadjah Mada University Press, Yogyakarta.
- Hardiyatmo, H.C., 2020. *Perbaikan Tanah*. Gadjah Mada University Press, Yogyakarta.
- Hardiyatmo, H.C., 2022. *Rekayasa Gempa Untuk Analisis Struktur & Geoteknik*, Cetakan Pertama. ed. Gadjah Mada University Press, Yogyakarta.
- Haris, A. and Naggar, H.E., 2020. Ground Improvement by Stone Columns - A Case Study. *Geo Virtual 2020*, .
- Hasiholan, F., Ismanti, S., and Rifa'i, A., 2022a. Estimating of Post-liquefaction Settlement Based on SPT Data in Klaten Regency, Central Java. *11th Engineering International Conference FT Unnes*, .
- Hasiholan, F., Ismanti, S., and Rifa'i, A., 2022b. Comparison Between Liquefaction Potential Index And Liquefaction Risk Index In Solo - Yogyakarta - YIA Kulon Progo Toll Road (STA. 07+500 - STA. 16+700). *The 5th International Conference on Earthquake and Disaster Mitigation*, .
- Idriss, I.M. and Boulanger, R.W., 2008. *Soil Liquefaction During Earthquake*. Earthquake Engineering Research Institute.
- Ishihara, K. and Yoshimine, M., 1992. Evaluation of Settlements in Sand Deposits Following Liquefaction During Earthquakes. *Soils and Foundations*, 32: 173-188.
- Iwasaki, T., Tokida, K., and Tatsuoka, F., 1981. Soil Liquefaction Potential Evaluation with Use of the Simplified Procedure 209-214.
- Jamal, M., Patel, H., and Senapati, A., 2020. 'Construction, Analysis and Behaviour of Stone Column: A Review'.
- Koester, J.P. and Tsuchida, T., 1988. 'Earthquake - Induced Liquefaction Of Fine - Grained Soils - Considerations From Japanese Research'. Department Of The Army US Army Corps of Engineers Washington, DC, Washington, D.C.
- Kramer, S.L., 1996. *Geotechnical Earthquake Engineering*. University of Washington, New Jersey.
- Kumar, K., 2008. *Basic Geotechnical Earthquake Engineering*. New Age International (P) Ltd, New Delhi.
- Kurniasari, T., 2019. 'Analisis Perkuatan Tanah Lunak Pada Jalan Nasional Studi Kasus : Jalan Tol Gempol - Pasuruan STA 22+800 s.d 23+800', *Tugas Akhir*, . Universitas Gadjah Mada, Yogyakarta.
- Lee, D., Ku, C., and Yuan, H., 2003. A Study of Liquefaction Risk Potential at Yuanlin. *Taiwan Eng Geol* 71, pp: 97-117.
- Lee, W.H., Kanamori, H., Jennings, P.C., dan Kisslinger, C., 2003. *Earthquake & Engineering Seismology*, Part B. Academic Press, Massachusetts, USA.
- Lukić, D., 2018. Friction Angle Of Soil And Rock. *Zbornik radova Građevinskog fakulteta*, 34: 349-357.

- Mase, L.Z., 2019. Performance of NGA Models in Predicting Ground Motion Parameters of The Strong Earthquake. *Journal of the Civil Engineering Forum*, **5**: 227–242.
- McCaffrey, R., 2009. The Tectonic Framework of the Sumatran Subduction Zone. *Annual Review of Earth and Planetary Sciences*, **37**: 345–366.
- Mina, E., Indera, R., dan Sudirman, 2018. Analisa Potensi Likuefaksi Berdasarkan Data SPT (Studi Kasus Proyek Pembangunan Gedung Baru Untirta Sindang Sari). *Jurnal Fondasi*, **Volume 7 No 1**: .
- Mosavat, N., Oh, E., dan Chai, G., 2013. Liquefaction Risk Potential of Road Foundation in the Gold Coast Region, Australia **18**: .
- Patimah, S., 2017. 'Analisis Litologi Bawah Permukaan Berdasarkan Ground Profiles Kecepatan Gelombang Geser Dengan Metode Ellipticity Curve di Kecamatan Prambanan dan Kecamatan Gantiwarno Kabupaten Sleman', *Skripsi*, . Universitas Negeri Yogyakarta, Yogyakarta.
- Patriaman, F., 2022. 'The Analysis Of Liquefaction Potential And Designing Its Countermeasure By Applying Stone Column Method'. Universitas Gadjah Mada, Yogyakarta.
- PEER Center, 2014. 'PEER Ground Motion Database - Pacific Earthquake Engineering Research Center'. URL: [https://ngawest2.berkeley.edu/spectras/new?sourceDb\\_flag=1](https://ngawest2.berkeley.edu/spectras/new?sourceDb_flag=1) (diakses tanggal 10/5/2022).
- Pemerintah Kabupaten Klaten, 2011. 'Peraturan Daerah Kabupaten Klaten Nomor 11 Tahun 2011 Tentang Rencana Tata Ruang Wilayah Kabupaten Klaten Tahun 2011 - 2031'. Klaten.
- Polarpedia, 2022. 'Divergent plate boundary' *Polarpedia*. URL: <https://polarpedia.eu/en/convergent-plate-boundary-2/> (diakses tanggal 7/6/2022).
- PP 15:2015, n.d. Tentang Jalan Tol.
- Priebe, H.J., 1995. The design of vibro replacement. *Ground engineering*, .
- PT. Jogjasolo Marga Makmur dan PT. Adhi Karya (Persero) Tbk., 2021. 'Laporan Pendahuluan Rencana Teknik Akhir (RTA) Jalan Tol Solo - Yogyakarta - NYIA Kulon Progo Seksi 1.1 (STA 0+000 - 22+500)'. Surakarta.
- PT Jogjasolo Marga Makmur dan PT. Adhi Karya (Persero) Tbk., 2021. 'Profil Stratigrafi Pelapisan Tanah Jalan Utama Proyek Jalan Tol Solo Yogyakarta Seksi 1'.
- PT Jogjasolo Marga Makmur, PT Adhi Karya (Persero) Tbk., dan PT Perentjana Djaja, 2021. 'Rencana Teknik Akhir Jalan Tol Solo - Yogyakarta - NYIA Kulon Progo Seksi 1.1 (STA. 0+000 - 22+300) - Laporan Studi Geologi dan Sesar Aktif Rencana Centerline'.
- PT. Perentjana Djaja, 2020. 'Soil Investigation Penyusunan Rencana Teknik Akhir Ruas Jalan Tol Solo - Yogyakarta'. PT. Perentjana Djaja, Solo - Yogyakarta.
- Rahmahnia, A., 2017. 'Mikrozonasi Kegempaan Berdasarkan Efek Lokal, Indeks Kerentanan Seismik, dan Percepatan Gerakan Tanah di Kabupaten Klaten, Jawa Tengah'. Institut Teknologi Sepuluh Nopember, Surabaya.
- Rahman, M.A., Fathani, T.F., dan Rifa'i, A., 2021. Analisis Respon Dinamik Tanah Berpotensi Likuefaksi Pada Underpass Yogyakarta International Airport (YIA). *Rang teknik Jurnal Fakultas Teknik Universitas Muhammadiyah Sumatera Barat*, **Vol. 4 No. 1**: .

- Schaefer, V., Mitchell, J., Berg, R., Filz, G., dan Douglas, S., 2012. 'Ground Improvement in the 21st Century: A Comprehensive Web-Based Information System'. Dipresentasikan pada Geotechnical Special Publication, hal. 272–293.
- Seed, H.B. and Idriss, I.M., 1970. *A Simplified Procedure For Evaluating Soil Liquefaction Potential*. College of Engineering University of California, California.
- Setiyono, U., Gunawan, I., Priyobudi, Yatimantoro, T., Imananta, R.T., Ramdhan, M., dkk., 2019. *Katalog Gempabumi Signifikan Dan Merusak 1821 - 2018*, Cetakan Pertama. Pusat Gempabumi dan Tsunami Kedeputan Bidang Geofosika Badan Meteorologi Klimatologi dan Geofisika, Jakarta.
- SNI 8460:2017, n.d. *Persyaratan Perancangan Geoteknik*. Badan Standardisasi Nasional, Jakarta.
- Supartoyo, 2006. 'Gempabumi Yogyakarta Tanggal 26 mei 2006'. *Buletin Berkala Merapi*, **Volume 3, No. 2**: 36–55.
- Surono, B.T. dan Sudarno, I., 1992. Peta Geologi Lembar Surakarta dan Girintoro, Jawa. Peta Geologi Bersistem Indonesia.
- Tim Pusat Studi Gempa Nasional, 2017. *Peta Sumber Dan Bahaya Gempa Indonesia Tahun 2017*. Pusat Penelitian dan Pengembangan Perumahan dan Permukiman Badan Penelitian dan Pengembangan Kementerian Pekerjaan Umum dan Perumahan Rakyat, Bandung.
- Tjandra, K., 2017. *Empat Bencana Geologi Yang Paling Mematikan*. UGM Press, Yogyakarta.
- Toprak, S. and Holzer, T.L., 2003. Liquefaction Potential Index: Field Assessment. *Journal Of Geotechnical and Geoenvironmental Engineering*, 315–322.
- Towhata, I., 2008. *Geotechnical Earthquake Engineering*.
- USDA, 2012. *National Engineering Handbook Chapter 3 Engineering Classification of Earth Materials*.
- USGS, 2022a. 'Understanding plate motions [This Dynamic Earth, USGS]'. URL: <https://pubs.usgs.gov/gip/dynamic/understanding.html#anchor15039288> (diakses tanggal 7/6/2022).
- USGS, 2022b. 'Latest Earthquakes'. URL: <https://earthquake.usgs.gov/> (diakses tanggal 12/4/2022).
- Wagner, D., Koulakov, I., Rabbel, W., Luehr, B.-G., Wittwer, A., Kopp, H., dkk., 2007. Joint inversion of active and passive seismic data in Central Java. *Geophysical Journal International*, **170**: 923–932.
- Zhang, G., Robertson, P.K., dan Brachman, R.W.I., 2002. Estimating Liquefaction-induced Ground Settlements From CPT For Level Ground. *Can. Geotech J.*, **39**: 1168–1180.