

## DAFTAR PUSTAKA

- A. M. Abudeif, A. E. Raef, A. A. Abdel Moneim, M. A. Mohammed, and A. F. Farrag, "Dynamic geotechnical properties evaluation of a candidate nuclear power plant site (NPP): P- and S-waves seismic refraction technique, North Western Coast, Egypt," *Soil Dyn. Earthq. Eng.*, vol. 99, no. April 2015, pp. 124–136, Aug. 2017.
- Anaperta, Y. M. (2021). Analisis Kestabilan Lereng Berdasarkan Data Klasifikasi Massa Batuan Untuk Evaluasi Geometri Lereng Pada Pit A di CV. Tekad Jaya. *Bina Tambang*, 6(4), 175 - 185.
- Arif Ismul Hadi. (2019). *Studi Potensi Longsor Daerah Rawan Bencana Gempabumi di Kabupaten Kepahiang, Provinsi Bengkulu Menggunakan Pendekatan Interpretasi Parameter Elastis yang Didukung Data Sampel Tanah*. Disertasi. Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Gadjah Mada. Yogyakarta
- Arifin, Amalia Dwi. (2016). *Inversi Dispersi Gelombang Rayleigh Yang Robust Berbasis Algoritma Progressive-Progressive Particle Swarm Optimization (Pp-Pso)*. Tugas Akhir. Jurusan Fisika, Fakultas Matematika dan Ilmu Pengetahuan Alam. Institut Teknologi Sepuluh Nopember: Surabaya.
- Asikin S., Handono, A., H., Busono H., dan Gafoer S. (1992), *Peta Geologi Lembar Kebumen, Jawa*. Bandung: Pusat Penelitian dan Pengembangan Geologi.
- Badan Meteorologi Klimatologi dan Geofisika (BMKG). *Laporan Kegiatan Mikrozonasi Getaran Tanah*, Laporan Internal BMKG (2014).
- Basu, A., & Aydin, A. (2006). Evaluation of ultrasonik testing in rock material characterization. *Geotechnical Testing Journal*, 29(2), 117-125.
- CEN. 2004. *Eurocode 8-Design of Structures for Earthquake Resistance. Part 1: General Rules, Seismic Actions and Rules for Buildings*. Brussels: European Committee for Standardization.
- Commons.wikimedia.org. (2011, 7 February). File:Indonesia Java location map.svg. Diakses pada 19 Oktober 2022, dari [https://commons.wikimedia.org/wiki/File:Indonesia\\_Java\\_location\\_map.svg](https://commons.wikimedia.org/wiki/File:Indonesia_Java_location_map.svg)

- Deere, D.U. (1968). *Geological Considerations, Rock Mechanics in Engineering Practice*. New York: Wiley
- Dentith, Michael and Stephen Mudge. (2014). *Geophysics for the Mineral Exploration Geoscientist*. New York: Cambridge University Press
- Elnashai, S.A. dan Sarno, D.L., (2008), *Fundamental of Earthquake Engineering*. Wiley. Hongkong.
- Gadallah, M.R. and Fisher, R. (2009) *Exploration Geophysics*. Springer, Berlin.
- Green, R. E., 1991, "Introduction to Ultrasonik Testing," Ultrasonik Testing, A. S. Birks, R. E. Green, and P. McIntire, Eds., *American Society for Nondestructive Testing*, Metals Park, Ohio, pp. 1–21.
- He, C., Wang, Y., Lu, Y., Liu, Y., & Wu, B. (2016). Design and fabrication of air-based 1-3 piezoelectric composite transducer for air-coupled ultrasonik applications. *Journal of Sensors*, 2016.
- Indanartha, N. G. (2018). *Pemodelan Parameter Dinamis Tanah (VS, G) Berdasarkan Metode Multichannel Analysis of Surface wave (MASW) sebagai Evaluasi Tapak Lokal Surabaya* (Doctoral dissertation, Institut Teknologi Sepuluh Nopember).
- Louie, J.N. (2001), "Faster, better: Shear-wave velocity to 100 ms depth from refraction microtremor arrays", *Bulletin of the Seismological Society of America*, Vol.91, No.2, hal. 347–364. <http://doi.org/10.1785/0120000098>.
- Luna, R. & Jadi, H. (2000), "Determination of Dynamic Soil Properties Using Geophysical Methods", *Preceedings of the First International Conference on the Application of Geophysical and NDT Methodologies to Transportation Facilities and Infrastructure*, St. Louis, December 2000.
- M. Mucciarelli, C. Other, D. Gosar, A. Herak, M. Albarello, Assesment of Seismic Site Amplification and of Seismic Building Vulnerability in the Republic of Macedonia, Croatia and Slovenia, *The 14th World Conference on Earthquake Engineering*, October 12-17, Beijing, China, 2008.
- Mucciarelli, M., A. Masi, M. R. Gallipoli, P. Harabaglia, M. Vona, F. Ponzo, and M. Dolce. (2004). *Analysis of RC Building Dynamic Response and Soil-Building Resonance Based on Data Recorded during a Damaging*

- Earthquake* (Molise, Italy, 2002). Bulletin of the Seismological Society of America, Vol. 94, No. 5, pp. 1943–1953, October 2004.
- Muzli, M., Mahesworo, R. P., Madijono, R., Siswoyo, S., Pramono, S., Dewi, K. R., ... & Suwanto, S. (2016). Pengukuran Vs30 Menggunakan Metode MASW Untuk Wilayah Yogyakarta. *Jurnal Meteorologi dan Geofisika*, 17(1).
- Park, C.B., Miller, R.D. dan Xia, J. (1999), "Multichannel analysis of surface waves (MASW)", *Geophysics*, <http://doi.org/10.1190/1.1444590>.
- Philip, S. 2007. *Planet yang Bergolak*. Jakarta: PT Gelora Aksara Pratama.
- Pulunggono, A., dan Martodjojo, S., (1994). Perubahan Tektonik Paleogen-Neogen Merupakan Peristiwa Tektonik Terpenting di Jawa. *Proceedings Geologi dan Geoteknik Pulau Jawa Sejak Akhir Mesozoik Hingga Kuartar*, Yogyakarta.
- Rahardjo, W., Sukandarrumidi, dan Rosidi, H.M.D., 1995. *Peta Geologi Lembar Yogyakarta, Jawa, skala 1 : 100.000*. Pusat Penelitian dan Pengembangan Geologi, Bandung.
- Raharjo, P. D., & Winduhutomo, S. (2016). Kondisi Sosial-masyarakat Pada Karakteristik Fisik Lingkungan Dalam Mempengaruhi Risiko Longsor Di Karangsembung-kebumen (Social-population Condition on the Physical Environment Characteristics in Influence the Risk of Landslide in Karangsembung). *Jurnal Manusia dan Lingkungan*, 23(1), 1-11.
- Raharjo, P. D., Widiyanto, K., Winduhutomo, S., & Al' Afif, M. (2019). Peranan Geomorfologi dalam Perencanaan Bangunan pada Zona Ancaman Longsor Tinggi di Kawasan Geopark Karangsembung-Karangbolong Bagian Utara. *Jurnal Lingkungan dan Bencana Geologi*, 10(3), 139-148.
- Rasimeng, S., Laksono, A., & Rustadi, R. (2019). Interpretasi Nilai Kecepatan Gelombang Geser (Vs 30) Menggunakan Metode Seismik Multichannel Analysis Of *Surface wave* (Masw) Untuk Memetakan Daerah Rawan Gempa Bumi di Kota Bandar Lampung. *JGE (Jurnal Geofisika Eksplorasi)*, 3(3), 3-14.
- Reading, R., A. & K., (2006). Lithospheric Structure of Tasmania from a Novel From of Teleseismic Tomography. *Journal Geophysics*.

- Rista, L., Ivansyah, O., & Adriat, R. (2018). Identifikasi struktur bawah permukaan geologi Karangsembung terhadap terobosan Dyke dan Sill menggunakan Metode Gaya Berat. *Prisma Fisika*, 7(1), 1-7.
- Roosa, J. (2006). *Pretext for Mass Murder*. London: University of Wisconsin-Madison.
- Rosid, S., & Setiawan, B. (2008). Pemetaan tingkat kekerasan batuan menggunakan metode seismik refraksi. *Prosiding Seminar Nasional Sains dan Teknologi-II 2008*, Lampung: Universitas Lampung.
- Rosyidi, Sri Atmaja P., Mohd. Raihan Tt., & Nur Izzi Md. Yusoff. (2017). *Teknologi SASW Untuk Evaluasi Perkerasan Jalan*. Lembaga Penelitian, Publikasi dan Pengabdian Masyarakat Universitas Muhammadiyah Yogyakarta (LP3M UMY).
- Sairam, B., Rastogi, B.K. Aggarwal, S., Chauhan, M., and Bhonde, U., (2001). Seismic Site Characterization Using Vs30 and Site Amplification in Gandhinagar Region, Gujarat, India. *Current Science* Vol. 100, No. 5, 10 March 2011.
- Satyana, A.H., (2014). *New Consideration on The Cretaceous Subduction Zone of Ciletuh-Luk Ulo-Bayat-Meratus : Implications for Southeast Sundaland Petroleum Geology*.
- Setiawan, N.I., Yuwono, Y.S. and Sucipta, IGBE, (2011). *The Genesis of Tertiary "Dakah Volcanics" in Karangsembung, Kebumen, Central Java*. *Majalah Geologi Indonesia*, Vol. 26 No. 1 April 2011: 29-44
- Sharma, A., & Sinha, A. K. (2018). Ultrasonik testing for mechanical engineering domain: present and future perspective. *International journal of research in industrial engineering*, 7(2), 243-253.
- Shearer, M., (2009). *Introduction to seismology*. Cambridge University Press, New York, USA.
- Shearer, P. M. 1999. *Introduction to Seismology*.: xii+ 260 pp. Cambridge, New York, Melbourne: Cambridge University Press.
- Sherif, R.E. dan Geldart, L.P., (1995). *Exploration Seismology Second Edition*. Cambridge University Press, New York USA.

- Sitharam TG, Anbazhagan P. (2006), "Measurements of dynamic properties and soil profiling using multichannel analysis of surface waves", *Invited keynote in the 4th Karl Terzaghi memorial workshops*, Madgaon, Goa; 7 October 2006. p. 6.
- SNI 1726:2012. (2012). *Tata cara perencanaan ketahanan gempa untuk struktur bangunan gedung dan non gedung*.
- Solihan, A., dan Santosa, B.J. (2009), "Analisis Dispersi Gelombang Rayleigh Struktur Geologi Bawah Permukaan. Studi Kasus : Daerah pasir putih dalegan Gresik", *Prosiding Seminar Nasional IX Pasca Sarjana* , FIS – 01, Indonesia.
- Sribudiyani, Muchsin, N., Ryacudu, R., Kunto, T., Astono, P., Prasetya, I., Sapiie, B., Asikin, S., Harsolumakso, A.H, Yulianto, I., (2003). *The Collision of East Java Microplate and Its Implication for Hydrocarbon Occurences in the East Java Basin*. Proceeding of Indonesian Petroleum Association, 29th annual convention and exhibition, Jakarta.
- Suharsono. (2004). *Penggunaan Kaedah Analisis Spektral Gelombang Permukaan Sebagai Teknik Baru Untuk Pengelasan Jasad Batuan Dalam Geologi Kejuruteraan*. Disertasi. Universiti Kebangsaan Malaysia.
- Suto, K. (2013). An MASW survey for geotechnical engineering in an urban setting-an application to pre-tunnelling investigation. *ASEG Extended Abstracts*, 2013(1), 1-4.
- Syamsuddin, Erfan dan M. A. Hamzah Assegaf. 2021. *Dasar-Dasar Akuisisi data MASW dan Mikrotremor*. UPT. Unhas Press.
- Sydney P. Clark, Jr (ed). 1966. *Handbook of Physical Constant. rev. Ed.*, Geol Soc. Mem. 97
- Tan, L., 2008. Digital Signal Processing: Fundamental and Applications. *Elseiver and Academic Press*, p. 129.
- Telford, M., Geldart, R., & Sheriff. (1976). *Applied Geophysic*. Cambridge University Press.
- Telford, W. M., Geldart, L. P. & Sheriff, R. E., (1990). *Applied Geophysics* Mmelbourne: Cambridge University Press

- Towhata, I., (2008). *Geotechnical Earthquake Engineering*. Springer-Verlag, Berlin Heidelberg,xx.
- Tuakia, M. Z., Sapiie, B. and Harsolumakso, A.H. (2015). Karakteristik dan deformasi pada Kompleks Larangan, Banjarnegara, Jawa Tengah. *Buletin Geologi*, Vol. 42, No 1.
- Vucetic, M. (1992). "Soil Properties and Seismic Response". *Earthquake Engineering, Tenth World Conference*, Balkema, Rotterdam.
- Xia, J., Miller, R. D. & Park, C. B. (1999), "Estimation of near-surface shear-wave velocity by inversion of Rayleigh waves", *Geophysics*, 64 (3), 691-700.