

DAFTAR PUSTAKA

- Agustina, L.K., Harbowo, D.G. and Al Farishi, B. (2020) 'Identifikasi kawasan rawan longsor berdasarkan karakteristik batuan penyusun di Kota Bandar Lampung', *Elipsoida: Jurnal Geodesi dan Geomatika*, 3(1), pp. 30–37.
- Airunisa, A., Resta, I. and Ngatijo, N. (2024) 'Analisis data mikrotremor untuk mengetahui nilai indeks kerentanan seismik di Kecamatan Jambi Luar Kota', *Jurnal Geofisika*, 22(1).
- Aisyah, N.I., Putranto, T.T. and Trisnawati, D. (2020) 'Analisis sebaran daerah rawan longsor menggunakan remote sensing dan analytical hierarchy process (AHP) di Kabupaten Magelang Provinsi Jawa Tengah', *Jurnal Geosains dan Teknologi*, 3(3).
- Alonso-Pandavenes, O., Bernal, D.W., Torrijo, F. and Garzón-Roca, J. (2023) 'A comparative analysis for defining the sliding surface and internal structure in an active landslide using the HVSr passive geophysical technique in Pujilí (Cotopaxi), Ecuador', *Land*, 12, p. 961.
- Arifin, M., Sulastri, N. and Wibowo, A. (2014) 'Analisis kestabilan lereng berdasarkan karakteristik geologi dan indeks tanah', *Jurnal Teknik Sipil*, 10, pp. 59–68.
- Badan Standardisasi Nasional (2019) *SNI 1726:2019 Tata Cara Perencanaan Ketahanan Gempa untuk Struktur Bangunan Gedung dan Non Gedung*. Jakarta: Badan Standardisasi Nasional.
- BPBD Kabupaten Semarang (2023) *Ilustrasi longsor*. Available at: <https://bpbd.semarangkab.go.id> (Accessed: 7 April 2026).
- Cruden, D.M. and Varnes, D.J. (1996) 'Landslide types and processes', in Turner, A.K. and Schuster, R.L. (eds.) *Landslides: Investigation and Mitigation*. Washington: Transportation Research Board, pp. 36–75.
- Das, B.M. (2008) *Principles of Geotechnical Engineering*. 7th edn. Stamford: Cengage Learning.
- Fajarulloh, A.S., Ariwibowo, K.L. and Musthofa, A.N.H. (2020) 'Analisis gerakan tanah di daerah Sekaran dan sekitarnya beserta rekomendasi penanggulangannya', *Paradigma Jurnal Multidisipliner Mahasiswa Pascasarjana*, 1(1).
- Fatmawati, S. and Afdal, M. (2022) 'Interpretasi nilai amplifikasi tanah menggunakan metode HVSr', *Jurnal Geosains Indonesia*, 7(1), pp. 22–30.

- Hardiyatmo, H.C. (2006) *Mekanika Tanah I*. Yogyakarta: Gadjah Mada University Press.
- Harmoko, U., Yuliyanto, G., Nurwidyanto, I. and Widada, S. (2026) ‘Subsurface instability characterization using the microtremor HVSR method for landslide risk assessment in Sriharjo Village, Bantul, Yogyakarta, Indonesia’, *Jurnal Penelitian Pendidikan IPA*, 11(12), pp. 1106–1115. Available at: <https://doi.org/10.29303/jppipa.v11i12.3133>.
- Highland, L.M. and Bobrowsky, P. (2008) *The Landslide Handbook—A Guide to Understanding Landslides*. Reston: U.S. Geological Survey.
- Hungr, O., Evans, S., Bovis, M. and Hutchinson, J.N. (2001) ‘A review of the classification of landslides of the flow type’, *Environmental & Engineering Geoscience*, 7, pp. 221–238.
- Jamal, N., Sari, D. and Yusuf, M. (2017) ‘Analisis mikrotremor untuk penentuan kondisi bawah permukaan menggunakan HVSR’, *Jurnal Geoteknik*, 5(2), pp. 71–80.
- Keçeli, A. (2012) ‘Sismik hızlar ile saptanabilen zemin parametreleri’, *Jeofizik Dergisi*, 26(1), pp. 17–29.
- Lowrie, W. (2007) *Fundamentals of Geophysics*. New York: Cambridge University Press.
- Maulana, A., Pratama, R. & Nugroho, S., 2025. Analysis of landslide susceptibility using microtremor HVSR method based on dominant frequency and amplification factor. *International Journal of Research and Review*, 12(3)
- Molnar, S., Cassidy, J., Castellaro, S., Cornou, C., Crow, H., Hunter, J., Matsushima, S., Sánchez-Sesma, F. and Yong, A. (2018) ‘Application of microtremor horizontal-to-vertical spectral ratio (MHVSR) analysis for site characterization: State of the art’, *Surveys in Geophysics*, 39, pp. 613–631.
- Nakamura, Y. (1989) ‘Method for dynamic characteristics estimation of subsurface using microtremor on the ground surface’, *Quarterly Report of the Railway Technical Research Institute*, 30(1), pp. 25–33.
- Naryanto, H.S., Soewandita, H., Ganesha, D., Prawiradisastra, F. and Kristijono, A., 2019. Analisis penyebab kejadian dan evaluasi bencana tanah longsor di Desa Banaran, Kecamatan Pulung, Kabupaten Ponorogo, Provinsi Jawa Timur tanggal 1 April 2017. *Jurnal Ilmu Lingkungan*, 17(2), pp.272–282. <https://doi.org/10.14710/jil.17.2.272-282>.
- Nurwidyanto, M.I. and Yuliyanto, G. (2024) ‘Landslide delineation using shear wave velocity, Poisson’s ratio, and GSS parameter analysis for the case

- study of the Ngasinan landslide, Banyumanik, Semarang Indonesia', *ARPN Journal of Engineering and Applied Sciences*, 19(7), pp. 426–433.
- Oliveira, E.P., Acevedo, A., Moreira, V.S., Faro, V.P. and Kormann, A. (2022) 'The key parameters involved in a rainfall-triggered landslide', *Water*, 14, p. 3561.
- Paque, R., Herrera, I., Dixon, J., Molina, A., Zehetner, F., Vanacker, V. and Paque, A. (2024) 'Constraining the effect of climate and rock porosity on weathering extent in the volcanic island of Santa Cruz (Galápagos, Ecuador)', *Journal of Geophysical Research: Earth Surface*, 129. Available at: <https://doi.org/10.1029/2024JF007651>.
- Prasindya, P., Hariyanto, T. and Kurniawan, A. (2020) 'Analisis potensi tanah longsor menggunakan sistem informasi geografis dan analytical hierarchy process (AHP) (studi kasus: Kecamatan Songgon, Kabupaten Banyuwangi)', *Jurnal Geoid*, 16, pp. 19–27. Available at: <https://doi.org/10.12962/j24423998.v16i1.7973>.
- PPID Kabupaten Magelang (2025) *Dokumentasi kondisi lokasi terdampak longsor di Dusun Prampelan*. Available at: <https://ppid.magelangkab.go.id> (Accessed: 2 May 2026).
- Pusat Vulkanologi dan Mitigasi Bencana Geologi (2022) *Peta Geologi dan Zonasi Rawan Bencana Gunung Sumbing*. Bandung: PVMBG.
- Putra, A.K., Yatini, Y. & Paripurno, E.T., 2023. Application of HVSR Method on Microtremor Data for Analysis of Earthquake Potential in Candipuro District, Lumajang, Indonesia. *Journal of Geoscience, Engineering, Environment, and Technology*, 8(4), pp.136–140. <https://doi.org/10.25299/jgeet.2023.8.4.13460>.
- Sasongko, D.P., Yulianto, G. and Zaenal, A. (2020) 'Karakterisasi daerah rawan gerakan tanah di Lapangan Pandanmurti Desa Candigaron Kecamatan Sumowono Kabupaten Semarang dengan metode mikrotremor', *Jurnal Pembangunan Wilayah dan Kota*, 16(2), pp. 136–149.
- Satrio, P.A. (2022) *Kajian Stabilitas Lereng Menggunakan Metode Fellenius dan Simplified Janbu (Studi Kasus: Dusun Prampelan, Adipuro, Kaliangkrik)*. Skripsi. Magelang: Universitas Tidar.
- Serdarević, A. and Babic, F. (2019) 'Landslide causes and corrective measures – case study of the Sarajevo Canton', *Journal of Civil Engineering Research*, 9, pp. 51–57.

- SESAME (2004) *Guidelines for the Implementation of the H/V Spectral Ratio Technique Using Ambient Vibrations*. European Commission Project No. EVG1-CT-2000-00026.
- Singh, P. and Singh, R. (2019) 'Landslide: effect and mitigation', *Anusandhaan - Vigyaan Shodh Patrika*, 7(1).
- Skilodimou, H., Bathrellos, G., Koskeridou, E., Soukis, K. and Rozos, D. (2018) 'Physical and anthropogenic factors related to landslide activity in the northern Peloponnese, Greece', *Land*, 7, p. 85.
- Sudibyo, E. and Nugraha, R. (2019) 'Studi kestabilan lereng akibat hujan dan perubahan tata guna lahan di Kabupaten Magelang', *Jurnal Teknik Sipil dan Lingkungan*, 7(2), pp. 87–95.
- Syarah, N. and Pohan, A.F. (2022) 'Analisis mikrotremor menggunakan metode horizontal to vertical spectral ratio di jalur kereta api Kota Padang', *Jurnal Fisika Unand*, 11(3), pp. 313–319.
- Thanden, R.E., Sumadirdja, H., Sidarto, Sukardi and Santosa, S. (1996) *Peta Geologi Lembar Magelang–Semarang, Jawa, skala 1:100.000*. Bandung: Pusat Penelitian dan Pengembangan Geologi.
- Turner, A. (2018) 'Social and environmental impacts of landslides', *Innovative Infrastructure Solutions*, 3, pp. 1–25.
- Ubechu, B. and Okeke, O. (2017) *Landslide: Causes, Effects and Control*.
- Van Zuidam, R.A. (1983) *Guide to geomorphologic aerial photographic interpretation and mapping*. Enschede: International Institute for Aerial Survey and Earth Sciences (ITC).
- Wesley, L.D. (2010) *Mekanika Tanah untuk Rekayasa Geoteknik*. Jakarta: Erlangga.
- Yuliyanto, G., Harmoko, U. and Widada, S. (2016) 'Identification of potential ground motion using the HVSR ground shear strain approach in Wirogomo Area, Banyubiru Subdistrict, Semarang Regency', *International Journal of Applied Environmental Sciences*, 11(6), pp. 1497–1507.
- Yuliawati, S., Hidayat, M. and Ramadhan, D. (2019) 'Analisis amplifikasi tanah menggunakan mikrotremor metode HVSR', *Jurnal Sumberdaya Bumi*, 9(2), pp. 123–131.
- Zuhri, A.S., Harmoko, U. and Yuliyanto, G. (2020) 'Modeling of 3D aquifer layers using Poisson's ratio analysis HVSR method in Tembalang Village, Candimulyo District, Magelang Regency', *Journal of Physics and Its Applications*, 3(1), pp. 124–128.