

## DAFTAR PUSTAKA

- Aki, K., dan Richards, P.G., 1980, *Quantitative Seismology: Theory and Methods*, Vol 1, W.H. Freeman and Co
- Ali, MY., Berteussen, KA., Small, J., Barka, B., 2010, *Low-frequency passive seismic experiments in Abu Dhabi, United Arab Emirates: implications for hydrocarbon detection*, *Geophysical Prospecting*. doi: 10.1111/j.1365-2478.2009.00835.x
- Arai, H., and Tokimatsu, K., 2000, *Effects of Rayleigh and love waves on microtremor H/V spectra*, 12 WCEE
- Bath, M., 1967, *Introduction to Seismology*, Birkhauser Verlag, Basel, 428 pp
- Burton, G., Lunt, P., dan Allan, T., 2002, *IPA Field trip to Eastern Java*, Indonesian Petroleum Association, Jakarta.
- Brown, KM., 1990, *The nature and hydrogeologic significance of mud diapirs and diatremes for accretionary systems*, *J Geophysical Research-Solid Earth and Planets* 95(B6): 8969–8982.
- Castellaro, S. and Mulargia, F., 2009, Vs3 Estimation using constrained H/V measurement, *BSSA*, vol. 99, No.2A, hal.761-773, April 2009, doi:10.1785/0120080179
- Dal Moro, G., 2010a, “Some Thorny Aspects about Surface Wave and HVSR Analyses: an Overview”. *Bollettino di Geofisica Teorica e Applicata*, special issue, submitted.
- Dal Moro, G., 2010b, “Joint Analysis of Rayleigh and Love-wave Dispersion Curves : Issues, Criteria and Improvements”. Shortly submitted to *Pure and Applied Geophysics*.
- Darmawan, S., Danusaputro, H., dan Yulianto, T., 2012, Interpretasi Data Anomali Medan Magnetik Total untuk Pemodelan Struktur bawah Permukaan Daerah Manifestasi Mud Volcano (Studi Kasus Bledug Kuwu Grobogan), *Geofisika*, 13.
- Datun, M, Sukandarrumidi, Hermant, B dan Sumarna, N. 1996, *Peta Geologi Lembar Ngawi, Jawa Edisi ke-2*. Pusat penelitian dan Pengembangan Geologi : Indonesia
- Dimitrov, L.I., 2002, *Mud volcanoes: the most important pathway for degassing deeply buried sediments*. *Earth Science Reviews* 59 (1–4), 49–76.

- Fowler, S.R., Mildenhall, J., Zalova, S., Riley, G., Elsley, G., Desplanques, A., Guliyev, I., 2000. Mud volcanoes and structural development on Shah Deniz. *Journal of Petroleum Science Engineering* 28, 189–206.
- Grandis, H., 2009, Pengantar pemodelan inversi geofisika, Himpunan Ahli Geofisika Indonesia (HAGI), Bandung.
- Herak, M., 2008, *ModelHVSR: a Matlab tool to model horizontal-to-vertical spectral ratio of ambient noise*, *Computers and Geosciences*, vol.34, hal. 1514–1526.
- Huang, H., and Tseng, Y., 2002, *Characteristics of Soil Liquefaction Using H/V of Microtremor in Yuan-Lin Area, Taiwan*. TAO, Vol. 13, No. 3, 325 - 338.
- Istadi, B.P., Kadar, A., Sawolo, N., 2008., *Analysis & recent study results on East Java mud volcano. In: Subsurface Sediment Remobilization and Fluid Flow in Sedimentary Basin Conference, October 2008*. The Geological Society, Burlington House, Piccadilly, London.
- Istadi, B.P., Wibowo, H.T., Sunardi, E., Hadi, S., Sawolo, N., 2012, *Mud volcano and it's evolution*, Energi Mega Persada.
- Konno, K., and Ohmachi, T., 1998, *Ground Motion Characteristics Estimated from Spectral Ratio Between Horizontal to Vertical Components of Microtremor*, *Bulletin of the Seismological of America*, pp. 228-241.
- 56
- Kopf, A.J., 2002, *Significance of Mud volcanism*, *Reviews of Geophysics*, 40, 2.
- Kramer, S.L., 1996, *Geotechnical Earthquake Engineering*, University of Washington
- Manurung, P., 1989, *Penyelidikan Anomali Medan Magnet Total Di Daerah Kuwu Grobogan Jawa Tengah*, Skripsi S1, FMIPA, UGM, Yogyakarta.
- Marks, P., 1957, *Stratigraphic Lexicon of Indonesia*. Publikasi Keilmuan No. 31, Seri Geologi, Republik Indonesia Kementerian Perekonomian pusat Djawatan Geologi Bandung,
- Marjiyono, Soehaimi, dan Kamawan. 2007. Identifikasi Sesar Aktif Daerah Cekungan Bandung Berdasarkan Citradan Kegempaan, *Jurnal Sumberdaya Geologi*. Bandung.
- Milkov, A.V., 2000, Worldwide distribution of submarine mud volcanoes and associated gas hydrates, *Marine Geology*, 167, p. 29–42.

- Milkov, A.V., 2003, *Global distribution of mud volcanoes and their significance as an indicator of active petroleum systems, a source of methane in the atmosphere and ocean, and a geohazard*, Advanced Research Workshop “Mud Volcanism, Geodynamics, and Seismicity, May 20-22, 2002, Baku, Azerbaijan.
- Mucciarelli, M., Masi, A., Gallipoli, M.R., Harabaglia, P., Vona, M., Ponzio, F., dan Dolce, M., 2004, *Analysis of building dynamic response and soil – building resonance based on data recorded during a damaging earthquake (Molise, Italy 2002)*, Bull. Seism. Soc. Am., 94, 5, 1943 – 1953.
- Mustain, M., 2006, *Fenomena gunung lumpur dan estimasi volume cadangan lumpur Sidoarjo*, Prosiding ISNU, ISSN:1829-6513, Vol. 2, No. 1.
- Mufida, A., Santosa, B.J., Warnana, D.D., 2013, *Profiling Kecepatan Gelombang Geser (Vs) Surabaya Berdasarkan Pengolahan Data Mikrotremor*, Jurusan Fisika, Fakultas IPA, Institut Sepuluh Nopember, Surabaya.
- Nakamura, Y., 1989, *A Method for Dynamic Characteristics Estimation of Subsurface using Microtremor on The Ground Surface*, Quarterly Report of RTRI, Vol. 30 No.1, 25 – 33.
- Nakamura, Y., 1996, *Real Time Information Systems for Seismic Hazards Mitigation UrEDAS, HERAS and PIC*, Quarterly Report of RTRI, Vol.37, No. 3, 112-127.
- Nakamura, Y., 2000, *Clear Identification of Fundamental Idea of Nakamura's, System and Data*, Research Co.Ltd., 3-25-3 Fujimedia, Kunitachi-shi, Tokyo.
- Nakamura, Y., Sato, T., and Nishinaga, M., 2000, *Local Site Effect of Kobe Based on Microtremor Measurement*, Proceeding of the Sixth International Conference on Seismic Zonation EERI, Palm Springs California.
- Nakamura, Y., 2008, *On the H/V Spectrum*. The 14th World Conference on Earthquake Engineering, Beijing, China.
- Panou, A., Theodulidis, N., Hatzidimitriou, P., Stylianidis, A., dan Papazachos C., 2005b, *Ambient noise horizontal – to – vertical spectral ratio in site effects estimation and correlation with seismic damage distribution in urban environment: the case of the city Thessaloniki (Northern Greece)*, Soil Dynamics and Earthquake Engineering, 25, Issue 4, 261- 274.
- Parolai, S., Grunthal, G., Wahlstrom, R., 2004, *Site – specific response spectra from the combination of microzonation with probabilistic Seismic Hazard*

*assessment: an example for the Cologne (Germany) area, 29th General Assembly European Seismological Commission.*

Peta DEM (Digital Elevation Model) <http://srtm.csi.cgiar.org/SELECTION/listImages.asp> diakses pada tanggal 23 september 2014 via google.

Peta geologi grobogan <http://jdsd.grobogan.go.id/peta/bappeda/06peta-geologi.jpg> diakses pada tanggal 17 juli 2014 via google

Pringgoprawiro, H., 1983, Statigrafi cekungan Jawa Timur Utara dan Paleogeografinya: sebuah pendekatan baru, Disertasi Doktor, ITB

Provinsi *mud volcano* <http://febryantgeology.wordpress.com/> diakses pada tanggal 13 agustus 2014 via google.

Putranti, B. A., 2015, Pemodelan Kecepatan Medium Bawah Permukaan Bledug Kuwu dengan Metode *Spatial Autocorrelation* (SPAC), Tesis, FMIPA, UGM, Yogyakarta.

Rinayu, Hadi. 2009, *Interpretasi struktur bawah permukaan Jawa Tengah dan Yogyakarta berdasarkan analisis gelombang Rayleigh gempa bumi jepang 5 september 2004 pukul 10.07.07 (UTC) dan gelombang mikroseismik*, Thesis Program Studi Ilmu Fisika, Universitas Gadjah Mada.

Rosenblad, BL., Goetz, R., 2010, Study of the H/V spectral ratio method for determining average shear wave velocities in the Mississippi embayment, *Engineering geology*, vol. 112, hal. 13-20.

Sato, T., Saita, J. dan Nakamura, Y., 2008, *Evaluation of the Amplification Characteristics of Subsurface using Microtremor and Strong Motion – the Studies at Mexico City*, Proc. 13th World Conf. Earthquake Eng. Vancouver, B.C, Kanada, Paper No. 86213.

Satjana, A.H. dan Asnidar, 2008, *Mud Diapirs and Mud Volcanoes of Java to Madura: Origins, Natures, and Implications to Petroleum System*, *Proceedings Indonesian Petroleum Association (IPA)*, 32nd annual convention, Jakarta, 27-29 May 2008.

Smyth, H., Hall, R., Hamilton, J. Dan Kinny, P., 2005, *East Java: Cenozoic Basins, Volcanoes and Ancient Basement*, *Indonesian Petroleum Association, Proceedings 30th Annual Convention*, hal. 251-266.

Sugianto, N., 2014, *Analisis Polarisasi Gelombang Seismik Erupsi Bledug Kuwu Menggunakan Seismometer 3 Komponen*, Tesis, FMIPA UGM, Yogyakarta.

- Sugiantoro, 1989, Studi Gelombang Mikro pada Medium Dua Fase di Daerah Kuwu Kabupaten Grobogan Jawa Tengah, Skripsi S1, FMIPA, UGM, Yogyakarta.
- Sungkono., 2011, Inversi terpisah dan simultan dispersi gelombang Rayleigh dan *Horizontal-to-Vertical Spectra Ratio* menggunakan algoritma genetik, Tesis, Institut Teknologi Sepuluh November, Surabaya.
- Triwulan, dan Utama, W., 2010, Mikrozonasi indek kerentanan bangunan Terhadap getaran gempabumi (studi kasus: kec. Pare, kab. Kediri, Jawa timur). Laporan Hibah Kompetensi. Tidak dipublikasikan.
- Tuladhar, R., Cuong, N.N.H., and Yamasaki, F., 2004, *Seismic Microzonation of Hanoi, Vietnam Using Microtremor Observations*, Paper No. 2539, 13th World Conference.
- Waluyo., 2013, Analisis Runtun Waktu, Yogyakarta: Diktat Kuliah, Universitas Gadjah Mada.
- Yuana, T., Yuliyanto, G., 2006, Survei Resistivitas untuk Menentukan Distribusi Tahanan Jenis Batuan Bawah Permukaan Cekungan Daerah Sedimentasi Kuwu, *Geofisika*, 9, 185–189.
- Yusifov, Z.M., 2004, *Seismic Interpretation and Classification of Mud Volcanoes of the South Caspian Basin, Offshore Azerbaijan*, Thesis, Department of Geology and Geophysics, Texas A&M University.