



DAFTAR PUSTAKA

- Auliani, P., (14 Februari 2014), Gunung Kelud Sejarah Panjang dan Anomali Letusan. Diakses pada 10 November, 2014, dari kompas.com, <http://regional.kompas.com>.
- Bath, M., (1974), *Spectral Analysis in Geophysics*. Amsterdam, Elsevier Scientific Publishing Company .
- Brigham, E. O., (1988), *The Fast Fourier Transform and Its Applications*. New Jersey, Prentice-Hall.Inc.
- Brown, J. R., Beroza, G. C., & Shelly, D. R., (2008), An Autocorrelation Method to Detect Low Frequency Earthquakes Within Tremor, *Geophysical Research Letters*, Vol. 35.
- Burg, J. P., (1975), *Maximum Entropy Spectral Analysis. Dissertation*. California, Stanford University.
- Chiu, H.-C., (1997), Stable Baseline Correction of Digital Strong-Motion Data. *Bulletin of the Seismological Society of America*, 932-944.
- Chouet, B., Saccorotti, G., Martini, M., Dawson, P., Luca, G. D., Milana, G., & Scarp, R., (1997), Source and path effects in the wave fields of tremor and explosions at Stromboli Volcano, Italy, *Journal Of Geophysical Research*, Vol. 102, 129-150.
- Cosentino, M., Lombardo, G., & Privitera, E., (1989), A Model for Internal Dynamical Processes on Mt Etna. *Geophysical Journal*, Vol. 97, 367-319.
- Dahm, T., (1991), Eigenvibrations of Magma-filled Dyke Systems with Complex Geometry. In R. Schick, & Mugiono (Editor), *Volcanic Tremor and Magma Flow* (Vol. 4, 97-114). Julich, Forschungszentrum Julich GmbH.
- Dmitrieva, K., Hotovec-Ellis, A. J., Prejean, S., & Dunham, E. M., (2013). Frictional-Faulting Model for Harmonic Tremor before Redoubt Volcano Eruptions. *Nature Geoscience*, Vol. 6, 652-656.
- Eibl, E. P., Lokmer, I., Bean, C. J., Akerlie, E., & Vogfjord, K. S., (2015). Helicopter vs. Volcanic Tremor: Characteristic Features of Seismic Harmonic Tremor on Volcanoes. *Journal of Volcanology and Geothermal Research*, Vol. 304, 108-117.
- Ferrick , M. G., Qamar, A., & St. Lawrence , W. F., (1982). Source Mechanism of Volcanic Tremor. *Journal Of Geophysical Research*, Vol. 87, 8675-8685.
- Engelberg, S., (2008), *Digital Signal Processing, An Experimental Approach*. London: Springer-Verlag London Limited .



Gottschammer, E., & Surono., (2000), Locating tremor and shock sources recorded at Bromo Volcano. *Journal of Volcanology and Geothermal Research*, Vol. 101, 199–209.

Gottschammer, E., (1999), Volcanic Tremor Associated With Eruptive Activity at Bromo Volcano, *Annali Di Geofisica*, Vol. 42, N. 3.

Hassani, S., (2009), *Mathematical Methods For Students of Physics and Related Fields Second Edition*, New York, Springer Science+Business Media.

Hassani, S., (2013), *Mathematical Physics A Modern Introduction To Its Foundations Second Edition*, New York, Springer International Publishing.

Hussain, Z. M., Sadik, A. Z., & O’Shea, P., (2011), *Digital Signal Processing: An Introduction with MATLAB and Applications*, New York, Springer-Verlag Berlin Heidelberg.

Jellinek, A. M., & Bercovici, D., (2011), Seismic tremors and magma wagging during explosive volcanism, *Nature*, Vol. 470, 522-525.

Jones, J. P., (2009), *Subband Investigation of Continuous Volcanic Tremor*, Dissertation, University of Washington. Seattle, University of Washington.

Jufriadi, A., Maryanto, S., Susilo, A., Purwanto, B. H., & Hendrasto, M., (2013), Analisis Sinyal Seismik Untuk Mengetahui Proses Internal Gunung Ijen Jawa Timur, *Jurnal Neutrino*, Vol. 6, No. 1.

Julian, R. B., Miller, D. A., & Foulger, G. R., (1998), Non-Double-Couple Earthquakes, *American Geophysical Union*, Vol. 36, 525-549.

Kementerian ESDM., (2011), *Data Dasar Gunungapi Indonesia Edisi Kedua*, Kementerian Energi dan Sumber Daya Mineral, Bandung.

Kementerian ESDM., (2013), *Data Dasar Gunungapi*, Diakses pada 10 Juni 2015, dari www.vsi.esdm.go.id/:
<http://www.vsi.esdm.go.id/index.php/gunungapi/data-dasar-gunungapi/529-g-slamet>.

Jurkevics, A., (1988), Polarization Analysis Of Three-Component Array Data, *Bulletin of the Seismological Society of America*, Vol. 78, 1725-1743.

Kanasewich, E. R. (1981), *Time Sequence Analysis in Geophysics Third Edition*. Canada, The University of Alberta Press.

Kieffer, S. W., (1977), Sound Speed in Liquid-Gas Mixtures: Water-Air and Water-Steam, *Journal Of Geophysical Research*, Vol. 82, 2895-2904



Kirbani, S. B., (1990), *Analysis Of Volcanic Tremor At Mount Merapi (Central Java, Indonesia) In Order To Understand Internal Magma Flow*, Dissertation, Yogyakarta, Gadjah Mada University.

Kirbani, S. B. (1991). Volcanic Tremor Observed During Various Stages of Magma Dome Building Activity on Merapi (Central Java, Indonesia). (R. Schick, & Mugiono, Editor.) *Forschungszentrum Julich GmbH*, Vol. 4, 47-69.

Konstantinou, K. I., & Schlindwein, V., (2002), Nature, Wavelfield Properties and source mechanism of volcanic tremor: a review, *Journal Of Volcanology And Geothermal Research*, Vol. 119, 161-187.

Konstantinou, K. I., Nolet, G., Morgan, W. J., Allen, R. M., & Pritchard, M. J., (2000), Seismic phenomena associated with the 1996 Vatnajokull eruption, central Iceland, *Journal of Volcanology and Geothermal Research*, Vol. 102, 169-187.

Kurrale, D., & Schnidric, R. W., (2010), Excitation of long-period Rayleigh waves by large storms over the North Atlantic Ocean, *Geophysical Journal International*, 330-338.

Landau, L. D., & Lifshitz, E. M., (1987), *Fluid Mechanics Second Edition Volume 6*. (J. B. Sykes, & W. H. Reid, Translator) Oxford, Pergamon Press.

Maercklin, N., (2010), *Three-component processing and analysis tools for seismic data in SAC format*. Napoli, RISSL, Universita degli Studi di Napoli.

Maryanto, S., Iguchi, M., & Tameguri, T., (2008), Constraints on the source mechanism of harmonic tremors based on seismological, ground deformation, and visual observations at Sakurajima volcano, Japan. *Journal of Volcanology and Geothermal Research*, Vol. 170, 198–217.

Minakami. T, H. S., (1969), Fundamental Research for Predicting Volcanic Eruptions. Part 2, *Buletin of The Earthquake Research Institute*, 893-949.

Morse, M. P., & Ingard, K. U., (1968), *Theoretical Acoustics*. New York, Mc Graw-Hill.

Nishimura, T., & Iguchi, M., (2011), *Volcanic Earthquakes and Tremor in Japan*. Kyoto, Kyoto University Press.

Priliawito, E., (19 Agustus 2014), *Ciri Khas Letusan Gunung Slamet*, Diakses pada 10 Juni 2015, dari viva.co.id:
<http://nasional.news.viva.co.id/news/read/530044-ciri-khas-letusan-gunung-slamet>.

Pusat Vulkanologi dan Mitigasi Bencana Geologi. (2014), *Laporan Pengamatan Kegiatan Gunungapi Slamet*. Kementerian Energi dan Sumber Daya Mineral, Bandung.



Reswara, A. P., & Sehah. (2014). Pendugaan Lapisan Reservoir Panas Bumi di Kawasan Gunungapi Slamet dengan Memanfaatkan Data Anomali Medan Gravitasi Ctra Satelit. *Berkala Fisiska*, Vol. 17, 45-54.

Rust, A. C., Balmforth, N. J., & Mandre, S. (2008), The Feasibility of Generating Low Frequency Volcano Seismicity by Flow Through a Deformable Channel. In S. J. Lane, & J. S. Gilbert (Editor), *Fluid Motions in Volcanic Conduits: A Source of Seismic and Acoustic Signals* (pp. 45-56). London: The Geological Society.

Sakuraba, A., Oikawa, J., & Imanishi, Y. (2002). Free Oscillations of a fluid sphere in an Infinite Elastic Medium and Long-period Volcanic Earthquakes. *Earth Planets Space*, 54, 91-106.

Sakuraba, A., & Yamauchi, H., (2014), Linear Stability of Plane Poiseuille flow in An Infinite Elastic Medium and Volcanic Tremors. *Earth, Planets and Space*, Vol, 66, 1-24.

Saccorotti, G., Zuccarello, L., Pezzo, E. D., Ibanez, J., & Gresta, S., (2004), Quantitative analysis of the tremor wavefield at Etna Volcano, Italy, *Journal of Volcanology and Geothermal Research*, Vol. 136, 223 – 245.

Setiawan, A., (1993), *Pengukuran Seismik Tiga Komponen Dan Analisis Polarisasi Kegiatan Seismik Gunung Merapi Pada Saat Pembentukan Kubah Lava Tahun 1992*. Tesis. Yogyakarta, Program Studi Ilmu Fisika Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada.

Seidl, D., Kirbani, S. B., & Brustle, W., (1990). Maximum Entropy Spektral Analysis of Volcanic Tremor Using Data from Etna (Sicily) and Merapi (Central Java). *Bulletin of Volcanology*, Vol. 52, 467-474.

Shenoi, B. A., (2006), *Introduction To Digital Signal Processing And Filter Design*. New Jersey, John Wiley & Sons, Inc.

Sturton, S., & Neuberg, J., (2006), The Effects Of Conduit Length And Acoustic Velocity On Conduit Resonance, Implications For Low-Frequency Events, *Journal of Volcanology and Geothermal Research*, Vol. 151, 319 – 339.

Sutawidjaja, I. S., & Sukhyar, R., (2009), Cinder cones of Mount Slamet, Central Java, Indonesia, *Jurnal Geologi Indonesia*, Vol. 4, 57-75.

Sutawidjaja, I. S., Aswin, D., & Sitorus, K., (1985), *Peta Geologi Gunungapi Slamet, Jawa Tengah*, Bandung, Dit. Geologi.



UNIVERSITAS
GADJAH MADA

IDENTIFIKASI DINAMIKA MAGMA BERDASARKAN ANALISIS TREMOR VULKANIK DI GUNUNGAPI
SLAMET JAWA TENGAH
WANRI LUMBANRAJA, Prof. Dr. Kirbani Sri Brotopuspito

Universitas Gadjah Mada, 2016 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Suyanto, I. (1993)., *Studi Tentang Tremor Harmonik Gunung Merapi (Jawa Tengah) Sebelum Pembentukan Kubah Lava Tahun 1992, Tesis*, Yogyakarta, Program Pasca Sarjana Universitas Gadjah Mada.

Tary, J. B., Herrera, R. H., & van der Baan, M., (2013), Time-varying Autoregressive Model for Spectral Analysis of Microseismic Experiments and Long-Period Volcanic Events, *Geophysical Journal International*, 1-12.

Tjia, M. O. (1994), *Gelombang*, Solo, Dabara Publishers.

Ulrych, T. J., & Bishop, T. N., (1975), Maximum Entropy Spectral Analysis and Autoregressive Decomposition, *Reviews of Geophysics and Space Physics*, Vol. 13, 183-200.

Vicaro, M., Garozzo, I., Cannata, A., Di Grazia, G., Gresta, S., (2014), Gas burst vs. gas-rich magma recharge: A multidisciplinary study to reveal factors controlling triggering of the recent paroxysmal eruptions at Mt. Etna, *Journal of Volcanology and Geothermal Research*, Vol. 278-279, 1-13.

Vidale, J. E., (1986), Complex Polarization Analysis Of Particle Motion, *Bulletin of the Seismological Society of America*, Vol. 76.

Wasserman, J., (2002), Volcano Seismology. In P. Bormann (Editor.), *IASPEI New Manual of Seismology Observatory Practice (NMSOP)* (Vol. 1, pp. 1-42). Postdam, GeoForschungsZentrum Potsdam.

Wu, N., (1997), *The Maximum Entropy Method*, Berlin Heidelberg, Springer-Verlag.

Zobin, V. M., (2012), *Introduction to Volcanic Seismology Second edition*, London, Elsevier B.V.