

Daftar Pustaka

- Allis, R., Moore, J.N., McCulloch, J., Petty, S., dan DeRocher, T., 2000, Karaha-Telaga Bodas, Indonesia: A Partially Vapor-Dominated Geothermal System, *Geothermal Resources Council Transaction*, 24: 217-222.
- Bignall, G., Milicich, S., Ramirez, E., Rosenberg, M., Kilgour, G., dan Rae, A., 2010, Geology of the Wairakei-Tauhara Geothermal System, New Zealand, *Proceedings World Geothermal Congress 2010*, Bali, Indonesia.
- Blakely, R.J., 1995, *Potential Theory in Gravity and Magnetic Applications*, New York: Cambridge University Press.
- Bujung, C.A.N., Singarimbun, A., Muslim, D., Hirnawan, F., dan Sudrajat, A., 2011, Identifikasi Prospek Panas Bumi Berdasarkan Fault and Fracture Density (FFD): Studi Kasus Gunung Patuha, Jawa Barat, *Jurnal Lingkungan dan Bencana Geologi*, Vol. 2 No. 1 2011: 67-75.
- Constable, S.C., Parker, R.L., dan Constable, C.G., 1987, Occam's inversion: A practical algorithm for generating smooth models from electromagnetic sounding data, *Geophysics*, 52(3): 289-300.
- Dampney, C.N.G., 1969, The Equivalent Source Technique, *Geophysics*, 34, hal.39-53.
- Daud, Y., Sulistyono, A., Fahmi, F., Nuqramadha, W.A., Fitrianita, Seseseha, R.S., Rosid, S., Pati, G.P., Maulana, M.R., Khoiroh, S., Tahman, K.R., dan Subroto, W., 2018, *First horizontal derivative and Euler Deconvolution in application for reconstructing structural signature over the bLawan-Ijen Geothermal area*, 7th ITB International Geothermal Workshop (IIGW 2017), Bandung.
- Direktorat Panas Bumi, Ditjen EBTKE, PSDMBP, Badan Geologi, 2017, *Potensi Panas Bumi Indonesia Jilid 1*, Direktorat Panas Bumi, Ditjen EBTKE, Kementerian ESDM, Jakarta.
- Ditjen EBTKE, 2017, *Doing Business in Geothermal*, Ditjen EBTKE, Kementerian ESDM, Jakarta.
- Elfina, 2017, *Updated Conceptual Model of the Patuha Geothermal Field Indonesia*, United Nations University-Geothermal Training Programme Reports 2017, Reykjavik, Iceland.

- Elkins, T.A., 1950, *The Second Derivative Method of Gravity Interpretation*, Annual Meeting of the Society of Exploration Geophysicist, Chicago, hal.29-50.
- Gehring, M. dan Loksha, V., 2012, *Geothermal Handbook: Planning and Financing Power Generation*, *ESMAP Technical Report 002/12*, Washington D.C.: World Bank Group.
- Georgsson, L.S., 2013, *Geophysical Methods Used in Geothermal Exploration*, Presentation in Short Course VIII on Exploration for Geothermal Resources, UNU-GTP, KenGen, GDC, Naivasha, Kenya.
- Geothermal Research Centre [GRC] UGM, 2020, *Evaluasi LiDAR, Struktur, dan Geologi Bawah Permukaan, Lapangan Patuha, Jawa Barat*, Universitas Gadjah Mada [*Internal Report*].
- Grant, F.S. dan West, G.F., 1965, *Interpretation Theory in Applied Geophysics*, New York: McGraw-Hill Book Company.
- Grandis, H., 2009, *Pengantar Pemodelan Inversi Geofisika*, Himpunan Ahli Geofisika Indonesia (HAGI), Bandung.
- Griffin, W.R., 1949, Residual gravity in theory and practice, *Geophysics*, 14(1): 39-58.
- Gupta, V.K. dan Ramani, N., 1982, Optimum second derivatives in geologic mapping and mineral exploration, *Geophysics*, 47(12): 1706-1715.
- Gupta, H. dan Roy, S., 2007, *Geothermal Energy: an Alternative Resource for The 21st Century, 1st Edition*, Amsterdam: Elsevier.
- Hadna, Z.N., Harijoko, A., Khasani, dan Atmaja, R.W., *Chemical and Physical Characteristic of Patuha Field Manifestations, West Java, Indonesia* [*Manuscript in preparation*], Departemen Teknik Geologi, Universitas Gadjah Mada.
- Hammer, S., 1939, Terrain Corrections for Gravimeter Stations, *Geophysics*, Vol.4 (3), hal.184-1194.
- Harvey, C., Beardsmore, G., Moeck, I., Ruter, H., dan Bauer, S., 2014, *Best Practices Guide for Geothermal Exploration*, IGA service GmbH, Bochum University of Applied Sciences, Bochum, Germany.

- Hatherton, T. dan Leopard, A.E., 1964, The densities of New Zealand rocks, *New Zealand Journal of Geology and Geophysics*, 7(3): 605-625.
- Hinze, W.J., Frese, R.R.B.V., dan Saad, A.H., 2013, *Gravity and Magnetic Exploration: Principles, Practices, and Applications*, New York: Cambridge University Press.
- Hochstein, M.P. dan Browne, P.R.L., 2000, *Surface Manifestations of Geothermal Systems with Volcanic Heat Sources*, In: Sigurdsson, H. (Ed), *Encyclopedia of Volcanoes*, Academic Press, hal. 835-855.
- Hochstein, M.P. dan Sudarman, S., 2008, History of geothermal exploration in Indonesia from 1970 to 2000, *Geothermics*, 37 (2008), hal. 220-226.
- Hochstein, M.P. dan Sudarman, S., 2015, Indonesian Volcanic Geothermal Systems, *Proceedings World Geothermal Congress 2015*, Melbourne, Australia.
- Jacoby, W. dan Smilde, P.L., 2009, *Gravity Interpretation: Fundamentals and Application of Gravity Inversion and Geological Interpretation*, Berlin: Springer-Verlag.
- Kana, J.D., Djongyang, N., Raidandi, D., Nouck, P.N., dan Dadge, A., 2015, A review of geophysical methods for geothermal exploration, *Renewable and Sustainable Energy Reviews*, 44 (2015) 87-95, Elsevier.
- Kane, M.F., 1962, A comprehensive system of terrain corrections using a digital computer, *Geophysics*, Vol. 56, hal. 1179-1184.
- Koesmono, M., Kusnama, dan Suwarna, N., 1996, *Peta Geologi Lembar Sindangbarang dan Bandarwaru, Jawa, skala 1:100.000*, Bandung: Pusat Penelitian dan Pengembangan Geologi.
- Layman, E.B., dan Soemarinda, S., 2003, The Patuha vapor-dominated resource West-Java, Indonesia. *Proceedings, 28th Workshop on Geothermal Reservoir Engineering 2003*, Stanford, California.
- Li, Y. dan Goetze, H.J., 2001, Ellipsoid, geoid, gravity, geodesy, and geophysics, *Geophysics*, 66, 1660-1668.
- Lillesand, T.M. dan Kiefer, R.W., 1994, *Remote Sensing and Image Interpretation*, New York: John Wiley and Sons Inc.

- Lillie, R.J., 1999, *Whole Earth Geophysics: An Introductory Textbook for Geologist and Geophysicists*, New Jersey: Prentice Hall Inc.
- Mackie, R.L. dan Cunningham, C.G., 1982, Density and Magnetic Susceptibility Measurements of Igneous Rocks from the Marysvale Volcanic Field, West-Central Utah, United States Department of the Interior Geological Survey, *Open-File Report*, hal. 82-892.
- Marsh, B.D., 2015, *Magma Chambers*, In: Sigurdsson, H. (Ed), *The Encyclopedia of Volcanoes 2nd Edition*, Academic Press, hal. 185-201.
- Martakusumah, R., Srigutomo, W., Suryantini, Pratama, A.B., Trimadona, dan Haans, A., 2015, Gravity Analysis for Hidden Geothermal System in Cipanas, Tasikmalaya Regency, West Java, *Proceedings World Geothermal Congres 2015*, Melbourne, Australia.
- Moeck, I. S., 2014, Catalog of Geothermal Play Types Based on Geologic Controls, *Renewable and Sustainable Energy Reviews*, 37 (2014) 867-882, Elsevier.
- Mohr, P.J., Taylor, B.N., dan Newell, D.B., 2008, CODATA Recommended Values of the Fundamental Physical Constants: 2006, *Review of Modern Physics*, Vol. 80 (2), hal. 633-730.
- Moritz, H., 1988, Geodetic Reference System 1980, *Bulletin Geodesique*, Vol. 62 (3), hal. 348-258.
- National Imagery and Mapping Agency [NIMA], 2000, Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems, *Technical Report NIMA*, TR8350.2, 3rd Edition.
- Nemcok, M., Moore, J.N., Christensen, C., Allis, R., Powell, T., Murray, B., dan Nash, G., 2007, Controls on the Karaha-Telaga Bodas geothermal reservoir, *Geothermics*, 36 (2007), hal. 9-46.
- Nicholson, K., 1993, *Geothermal Fluids: Chemistry and Exploration Techniques*, Berlin: Springer-Verlag.
- Nishijima, J. dan Naritomi, K., 2017, Interpretation of gravity data to delineate underground structure in the Beppu geothermal field, central Kyushu, Japan, *Journal of Hydrology: Regional Studies 11* (2017), hal. 84 – 95.
- Nurpratama, M.I. dan Darusman, C.A., Subsurface Structural Mapping Using 2D MT and Gravity Data of Dieng Geothermal Field, Indonesia, *Proceedings World Geothermal Congres 2015*, Melbourne, Australia.

- Parasnis, D.S. dan Cook, A.H., 1952, A Study of Rock Densities in the English Midlands, *Geophysical Journal International*, Vol. 6 (5), hal 252-271.
- Pirttijarvi, M., 2008, *Grablox, Gravity interpretation and modelling software based on a 3-D Block Model, User's Guide*, University of Oulu.
- Pradipta, R.A., Saepuloh, A., dan Suryantini, 2016, *Geology Structure Identification based on Polarimetric SAR (PolSAR) Data and Field Based Observation at Ciwidey Geothermal Field*, 5th ITB International Geothermal Workshop, Bandung.
- Pratama, S.A., Daud, Y., Fahmi, F., dan Darusman, C.A., 2015, Integrated Analysis of Magnetotelluric and Gravity Data for Delineating Reservoir Zone at Patuha Geothermal Field, West Java, *Proceedings of Indonesia International Geothermal Convention & Exhibition 2015*, JCC, Indonesia.
- Press, W.H., Teukolsky, S.A., Vetterling, W.T., dan Flannery, B.P., 2007, *Numerical Recipes: The Art of Scientific Computing 3rd Edition*, New York: Cambridge University Press.
- Purnomo, J., Koesuma, S., dan Yuniyanto, M., 2013, Pemisahan Anomali Regional-Residual pada Metode Gravitasi Menggunakan Metode Moving Average, Polynomial dan Inversion, *Indonesian Journal of Applied Physics*, 3(1): 10-20.
- Schon, J.H., 2011, *Handbook of Petroleum Exploration and Production Volume 8: Physical Properties of Rocks*, Amsterdam: Elsevier.
- Setiadi, I., Setyanta, B., dan Widijono, B.S., 2010, Delineasi Cekungan Sedimen Sumatra Selatan Berdasarkan Analisis Data Gaya Berat, *Jurnal Geologi dan Sumberdaya Mineral*, 20(2): 93-106.
- Setyawan, A., 2005, Kajian Metode Sumber Ekuivalen Titik Massa pada Proses Pengangkatan Data Gravitasi ke Bidang Datar, *Berkala Fisika*, 8(1), 7-10.
- Sharma, P.V., 1997, *Environmental and Engineering Geophysics*, New York: Cambridge University Press.
- Siahaan, M.N., Soebandrio, Andri, Ikantika, dan Ketut, 2011, *Geothermal Potential Exploration Using Remote Sensing Technique (Case Study: Patuha Area, West Java)*, Asia Geospatial Forum, 10th Annual Asian Conference & Exhibition on Geospatial Information, Technology & Applications, Jakarta.

- Sigismondi, M.E., 2019, Radial averaged Power Spectrum Step by Step, *Researchgate*, doi: 10.13140/RG.2.2.17169.07528.
- Sihombing, J., Lestari, W., Mariyanto, dan Joni, W., *Subsurface Analysis Using Gravity Data at Lilli Sepporaki Geothermal Area, Indonesia Malaysia Research Consortium Seminar 2018 (IMRCS 2018)*.
- Stimac, J., Goff, F., dan Goff, C.J., 2015, *Intrusion-Related Geothermal Systems*, In: Sigurdsson, H. (Ed), *The Encyclopedia of Volcanoes 2nd Edition*, Academic Press, hal. 799-822.
- Stober, I. dan Bucher, K., 2013, *Geothermal Energy: From Theoretical Models to Exploration and Development*, Berlin: Springer-Verlag Heidelberg.
- Suryantini, Rachmawati, C., dan Abdurrahman, M., 2016, *Geothermal system boundary at the northern edge of Patuha Geothermal Field based on integrated study of volcanostratigraphy, geological field mapping, and cool springs contamination by thermal fluids*, 6th ITB International Geothermal Workshop (IIGW 2017), Bandung.
- Telford, W.M., Geldart, L.P., dan Sheriff, R.E., 1990, *Applied Geophysics: 2nd Edition*, New York: Cambridge University Press.
- Tenzer, R., Sirguey, P., Rattenbury, M., dan Nicolson, J., 2011, A digital rock density map of New Zealand, *Computer & Geosciences*, 37 (2011) 1181-1191, Elsevier.
- Tripp, A., Moore, J., Ussher, G., dan McCulloch, 2002, Gravity Modelling of the Karaha – Telaga Bodas Geothermal System, Indonesia, *Proceedings 27th Workshop on Geothermal Reservoir Engineering*, Stanford University, California.
- Untung, M. dan Sato, Y., 1878, *Gravity and Geological Survey in Jawa, Indonesia*, Ministry of Mines, Directorate General of Mines, Geological Survey of Indonesia, Jakarta.
- Utama, P.P., Utami, P., Marliyani, G.I., dan Atmaja, R.W., 2020, *The Subsurface Geology and Hydrothermal Alteration of Patuha Geothermal Field, West Java [Manuscript in preparation]*, Departemen Teknik Geologi, Universitas Gadjah Mada.

Van Bemmelen, V.W., 1970, *The Geology of Indonesia: vol. 1-A General Geology of Indonesia 2nd Edition*, Government Print. Office, The Hague Netherlands.

Whitehead, N., 2010, *Montaj Gravity & Terrain Correction, Gravity Data Processing Extension for Oasis Montaj v7.1, Tutorial and User Guide*, Geosoft Incorporated, Toronto, Canada.

Wohletz, K., dan Heiken, G., 1992, *Volcanology and Geothermal Energy*, Berkeley: University of California Press.

Referensi dari internet:

Badan Informasi Geospasial [BIG], 2019, DEMNAS: Seamless Digital Elevation Model (DEM) dan Batimetri Nasional, tersedia di website: <http://tides.big.go.id/DEMNAS/> [diakses pada 20 Feb. 2019].

Google Maps, 2019, [Maps of West Java], tersedia di website: <https://www.google.com/maps/@-6.8788448,107.0368504,8.5z/data=!5m1!1e4> [diakses pada 22 Feb. 2019].

Kementerian ESDM, 2019, ESDM One Map, exploring energy and mineral resources of Indonesia, tersedia di website: <http://igis.esdm.go.id/igis/potensi/index> [diakses pada 23 Maret 2019].

United States Geological Survey [USGS], 2019, Earth Explorer, tersedia di website: <http://earthexplorer.usgs.gov/> [diakses pada 12 Februari 2019].

Referensi dari database elektronik:

- Data medan gravitasi observasi dan elevasi (excel), PT. Geo Dipa Energi [PT. GDE], 2019.
- Informasi model penampang tahanan-jenis 2 dimensi (.jpeg), PT. GDE, 2019.
- Informasi log sumur (excel), PT. GDE, 2019.
- Informasi sebaran suhu pada elevasi 1200 mdpl (.jpeg), PT. GDE, 2019.
- Informasi sebaran gempa mikro (*swarm*) dari data mikroseismik (.jpeg), PT. GDE, 2019.
- Data lintasan atau *trajectory* sumur (.shp), PT. GDE, 2019.