Daftar Pustaka

Abidin, H. (2000). *Penentuan Posisi dengan GPS dan Aplikasinya* (2nd ed.). Jakarta: PT Pradnya Paramita.

Abidin, H., Andreas, H., Meilano, I., Gamal, M., Gumilar, I., dan Abdullah, C. (2009). Deformasi Koseismik dan Pascaseismik Gempa Yogyakarta 2006 dari Hasil Survei GPS. *Jurnal Geologi Indonesia*, *4*(4), 275–284. https://doi.org/10.1080/00033797900200221.

Abidin, H., Yolanda, O., Meilano, I., Suganda, O., Kusuma, M., Muhardi, D., Setyadji, B., Sukhyar, R., Kahar, J., dan Tanaka, T. (1998). Efek Bias Troposfer pada Penentuan Deformasi Gunung Guntur dengan Metode Survei GPS. *Proceeding ITB*, *30*(1).

Abidin, H. Z. (1997). *Geodesi Satelit* (1st ed., Vol. 81). Jakarta: PT Pradnya Paramita.

Agnew, D. C. (2015). Earth Tides. in *Treatise on Geophysics* (2nd ed., pp. 151–178). La Jolla: Elsevier B.V. https://doi.org/10.1016/B978-0-444-53802-4.00058-0.

Allmendinger, R. W., Reilinger, R., dan Loveless, J. (2007). Strain and Rotation Rate from GPS in Tibet, Anatolia, and the Altiplano. *Tectonics*, *26*(TC3013), 1–18. https://doi.org/10.1029/2006TC002030.

Altamimi, Z., Collilieux, X., Legrand, J., Garayt, B., dan Boucher, C. (2007). ITRF2005: a New Release of the International Terrestrial Reference Frame based on Time Series of Station Positions and Earth Orientation Parameters. *Journal of Geophysical Research: Solid Earth*, *112*(9), 1–19. https://doi.org/10.1029/2007JB004949.

Alzair, N. (2016). Pengembangan Metode Penajaman (Enhancement) Citra Digital Menggunakan Data Landsat 8 untuk Kajian Geologi Daerah Gunung Kidul Yogyakarta. *Tesis Magister Geografi*, Universitas Gadjah Mada.

Andriyani, G., Kahar, S., Awaluddin, M., dan Meilano, I. (2011). Kajian Regangan Selat Bali Berdasarkan Data GNSS Kontinu Tahun 2009-2011, 1–12.

Argus, D. F., Gordon, R. G., dan DeMets, C. (2011). Geologically Current Motion of 56 Plates Relative to the No-Net-Rotation Reference Frame. *Geochemistry, Geophysics, Geosystems*, *12*(11). https://doi.org/10.1029/2011GC003751.

Bakruddin, Utama, W., dan Warnana, D. (2016). Penggunaan Citra Satelit Landsat 8 untuk Analisis Patahan pada Lapangan Panas Bumi Arjuno Welirang Provinsi Jawa Timur. *Prosiding Seminar Nasional Aplikasi Teknologi Prasarana Wilayah IX (ATPW)* (pp. 37–44). Surabaya.

Barman, P., Ray, J. D., Kumar, A., Chowdhury, J. D., dan Mahanta, K. (2016). Estimation of Present-day Inter-seismic Deformation in Kopili Fault Zone of North-East India using GPS Measurements. *Geomatics, Natural Hazards and Risk*, *7*(2), 586–599. https://doi.org/10.1080/19475705.2014.983187.

Bird, P. (2003). an Updated Digital Model of Plate Boundaries. *Geochemistry, Geophysics, Geosystems*, *4*(3). https://doi.org/10.1029/2001GC000252.

DeMets, C., Gordon, R. G., dan Argus, D. F. (2010). Geologically Current Plate Motions. *Geophysical Journal International*, *181*(1), 1–80. https://doi.org/10.1111/j.1365-246X.2009.04491.x.

Dizio, L. P. (2016). Elastic Block Modeling of Fault Slip Rates across Southern California. *Macalester Journal of Physics and Astronomy*, *4*(1).

Ekawati, S. (2015). Pengaruh Geometri Satelit dan Ionosfer dalam Kesalahan Penentuan Posisi GPS. *Berita Dirgantara*, *11*(2), 59–65.

Flower, C. M. R. (1996). *the Solid Earth: an Introduction to Global Geophysics*. *Cambridge University Press* (2nd ed., Vol. 6). United Kingdom: the Press Syndicate of the University of Cambridge. https://doi.org/10.1029/90EO00309.

Goudarzi, M. A., Cocard, M., dan Santerre, R. (2015). GeoStrain: an Open Source Software for Calculating Crustal Strain Rates. *Computers and Geosciences*, *82*, 1–12. https://doi.org/10.1016/j.cageo.2015.05.007.

Gunawan, E., dan Widiyantoro, S. (2019). Active Tectonic Deformation in Java, Indonesia inferred from a GPS-Derived Strain Rate. *Journal of Geodynamics*, *123*(October 2018), 49–54. https://doi.org/10.1016/j.jog.2019.01.004.

Harini, R., Christanto, N., dan Marfai, M. (2014). *Kompetensi Dasar Olimpiade Sains Nasional Geografi*. Yogyakarta: Gadjah Mada University Press.

Hendrayana, H., dan Vicente, V. A. de S. (2013). Cadangan Airtanah Berdasarkan Geometri dan Konfigurasi Sistem Akuifer Cekungan Airtanah Yogyakarta-Sleman. *Prosiding Seminar Nasional Kebumian Ke-6* (pp. 11–12). Yogyakarta: Teknik Geologi Universitas Gadjah Mada.

Ishchenko, M. (2018). Investigation of Deformations of the Earth Crust on the Territory of Ukraine Using a GNSS Observations. *Artificial Satellites*, *53*(3), 117–126. https://doi.org/10.2478/arsa-2018-0009.

Keller, E. A., dan Pinter, N. (2014). *Active Tectonics Earthquakes, Uplift, and Landscape*. *Environmental and Engineering Geoscience* (Vol. III). United States of America: Prentice-Hall, Inc. https://doi.org/10.2113/gseegeosci.iii.3.463.

Kostyuk, A. D., Sycheva, N. A., Yunga, S. L., Bogomolov, L. M., dan Yagi, Y. (2010). Deformation of the Earth's Crust in the Northern Tien Shan According to the Earthquake Focal Data and Satellite Geodesy. *Physics of the Solid Earth*, *46*(3), 230–243. https://doi.org/10.1134/S1069351310030055.

Koulali, A., McClusky, S., Susilo, S., Leonard, Y., Cummins, P., Tregoning, P., Meilano, I., Efendi, J., dan Wijanarto, A. B. (2017). the Kinematics of Crustal Deformation in Java from GPS Observations: Implications for Fault Slip Partitioning. *Earth and Planetary Science Letters*, *458*, 69–79. https://doi.org/10.1016/j.epsl.2016.10.039.

Kuang, S., (1996). *Geodetic Network Analysis and Optimal Design: Concept and Applications.* Michigan: Ann Arbor Press, Inc.

Kusky, T. (2008). *Earthquakes: Plate Tectonics and Earthquake Hazards*. *Infobase publishing* (Vol. 1). United States of America: Facts On File, Inc. https://doi.org/10.1021/cg3016707.

Lay, T. (1995). Earthquake Kinematics and Dynamics. In *International Geophysics* (Vol. 58, pp. 357–396). Elsevier B.V. https://doi.org/10.1016/S0074-6142(05)80010-5.

Leick, A. (2004). *GPS Satellite Surveying* (3rd ed.). New York, USA: John Wiley dan Sons, Inc.

Leick, A., Rapoport, L., dan Tatarnikov, D. (2015). *GPS Satellite Surveying* (4th ed.). United States of America: John Wiley dan Sons, Inc.

Li, Y., Shan, X., Qu, C., dan Wang, Z. (2016). Fault Locking and Slip Rate Deficit of the Haiyuan-Liupanshan Fault Zone in the Northeastern Margion of the Tibetan Plateu. *Journal of Geodynamics*, *102*, 47–57. https://doi.org/10.1016/j.jog.2016.07.005.

Mccaffrey, R. (2002). Crustal Block Rotations and Plate Coupling. *Plate Boundary*

Zones, *30*, 101–122. https://doi.org/10.1029/gd030p0101.

McCaffrey, R. (2005). Block Kinematics of the Pacific-North America Plate Boundary in the Southwestern United States from Inversion of GPS, Seismological, and Geologic Data. *Journal of Geophysical Research*, *110*(B07401), 1–27. https://doi.org/10.1029/2004JB003307.

Meilano, I., Abidin, H. Z., Andreas, H., Gumilar, I., Sarsito, D., Hanifa, R., Rino, Harjono, H., Kato, T., Kimata, F., dan Fukuda, Y. (2012). Slip Rate Estimation of the Lembang Fault West Java from Geodetic Observation. *Journal of Disaster Research*, *7*(1), 12–18. https://doi.org/10.20965/jdr.2012.p0012.

Nurwidyanto, M., Brotopuspito, K., Waluyo, dan Sismanto. (2011). Study Pendahuluan Sesar Opak dengan Metode Gravity (Study Kasus Daerah Sekitar Kecamatan Pleret Bantul). *Berkala Fisika*, *14*(1), 11–16.

Ogata, Y. (2013). a Prospect of Earthquake Prediction Research. *Statistical Science*, *28*(4), 521–541. https://doi.org/10.1214/13-sts439.

Okada, Y. (1985). Surface Deformation due to Shear and Tensile Faults in a Half-Space. *Bulletin of the Seismological Society of America*, *75*(4), 1135–1154. https://doi.org/10.1016/0148-9062(86)90674-1.

Okada, Y. (1992). Internal Deformation due to Shear and Tensile Faults in a Half-Space. *Bulletin of the Seismological Society of America*, *82*(2), 1018–1040.

Pahlevi, A. M., Prijatna, K., Meilano, I., dan Sofian, I. (2016). Investigation of the Solid Earth Tide based on GPS Observation and Superconducting Gravimeter Data. *Geomatika*, *22*(1), 29–36. https://doi.org/http://dx.doi.org/10.24895/JIG.2016.22-1.488.

Paraditya, R., dan Purwanto, T. (2012). Pemanfaatan Citra Landsat 7 ETM+ untuk Pemetaan Potensi Mineralisasi Emas di Kawasan Gunung Dodo, Kabupaten Sumbawa, NTB. *Jurnal Bumi Indonesia*, *1*(3), 122–129.

Pearson, C. F., dan Snay, R. A. (2014). Strain Partitioning along the Western Margin of North America. *Journal of Structural Geology*. https://doi.org/10.1016/j.jsg.2014.02.012.

Pollitz, F. F., Mccrory, P., Svarc, J., dan Murray, J. (2008). Dislocation Models of Interseismic Deformation in the Western United States, *113*(B04413), 1–32. https://doi.org/10.1029/2007JB005174.

Pradipta, D., Kuntjoro, W., dan Prijatna, K. (2012). Temporal Variation Analysis from Troposphere Delay using GPS (Study: Bandung, Indonesia). *Indonesian Journal of Geospatial*, *1*(5), 54–70. Retrieved from www.google.com.

Pratama, C., Widjajanti, N., Pinasti, A., Ummi, R. F., Parseno, Lestari, D., Sunantyo, A., Heilani, L., dan Ulinnuha, H. (under review). Opak Fault Zone in Yogyakarta, Indonesia Inferred from Present-day Crustal Deformation Based on Geodetic Data. *Journal of Applied Geology*.

Purwanto, M. S., Bashri, A. Al, Harto, M. F. D., dan Syahqirawan, Y. (2017). Citra Satelit Landsat 8+ TIRS sebagai Tinjauan Awal dari Manifestasi Panas Bumi di Wilayah Gunung Argopuro. *Jurnal Geosaintek*, *3*(1), 13–16.

PuSGeN. (2017). *Peta Sumber dan Bahaya Gempa Indonesia Tahun 2017* (1st ed.). Bandung: Pusat Penelitian dan Pengembangan Perumahan dan Pemukiman, Badan Penelitian dan Pengembangan, Kementerian Pekerjaan Umum dan Perumahan rakyat.

Qu, W., Lu, Z., Zhang, Q., Li, Z., Peng, J., Wang, Q., Drummond, J., dan Zhang, M. (2014). Kinematic Model of Crustal Deformation of Fenwei Basin China based on GPS Observations. *Journal of Geodynamics*, *75*, 1–8. https://doi.org/10.1016/j.jog.2014.01.001.

Ragan, D. M. (2009). *Structural Geology: an Introduction to Geometrical Techniques* (4th ed.). United States of America: Cambridge University Press.

Rau, R.-J., Rateb, A., Ching, K.-E., Chen, C.-L., dan Kuo, C.-Y. (2017). Kinematics of the Tectonic Blocks and Active Faults at the Post-orogenic Stage: Northern Taiwan. *Journal of Asian Earth Sciences*, *149*(January), 29–40. https://doi.org/10.1016/j.jseaes.2017.07.055.

Reid, H. F. (1910). *the California Earthquake of April 18, 1906, Report of the State Earthquake Investigation Commission, the Mechanism of the Earthquake*. *Nature* (Vol. 2). Washington D.C. https://doi.org/10.1038/084165a0.

Richards, J. A., dan Jia, X. (2006). *Remote Sensing Digital Image Analysis*. Germany: Springer-Verlag Berlin Heidelberg.

Safitri, A. A., Meilano, I., Gunawan, E., Abidin, H., Efendi, J., dan Kriswati, E. (2018). Strain Variation along Cimandiri Fault, West Java based on Continuous and Campaign GPS Observation From 2006-2016. *41st HAGI Annual Convention and*

Exhibition 2016. IOP Conf. Series: Earth and Environmental Science 132. https://doi.org/10.1088/1755-1315/132/1/012027.

Sagiya, T., Miyazaki, S., dan Tada, T. (2000). Continuous GPS Array and Present-day Crustal Deformation of Japan. *Pure and Applied Geophysics*, *157*, 2303–2322. https://doi.org/https://doi.org/10.1007/978-3-0348-7695-7_26.

Saputra, A., Gomez, C., Delikostidis, I., Zawar-Reza, P., Hadmoko, D., Sartohadi, J., dan Setiawan, M. (2018). Determining Earthquake Susceptible Areas Southeast of Yogyakarta, Indonesia-Outcrop Analysis from Structure from Motion (SfM) and Geographic Information System (GIS). *Geosciences*, *8*(4), 132. https://doi.org/10.3390/geosciences8040132.

Savage, J. C., dan Burford, R. O. (1973). Geodetic Determination of Relative Plate Motion in Central California. *Journal of Geophysical Research*, *78*(5), 832–845.

Schowengerdt, R. A. (2010). *Remote Sensing: Models and Methods for Image Processing*. *TU Delft, MSc Thesis* (2nd ed.). United States of America: Academic Press.

Setyawan, A. A. (2017). Evaluasi Survei GNSS pada Pemantauan Sesar Opak Tahun 2013 s.d. 2016. *Tesis Magister Teknik Geomatika*, Universitas Gadjah Mada, Yogyakarta.

Shen, Z., Wang, M., Zeng, Y., dan Wang, F. (2015). Optimal Interpolation of Spatially Discretized Geodetic Data. *Bulletin of the Seismological Society of America*, *105*(4), 2117–2127. https://doi.org/10.1785/0120140247.

Shodiq, A. (2016). Pemodelan dan Visualisasi Deformasi 3D Aspek Geometrik Candi Borobudur. *Tesis Magister Teknik Geomatika,* Universitas Gadjah Mada.

Simons, W. J. F., Socquet, A., Vigny, C., Ambrosius, B. A. C., Abu, S. H., Promthong, C., Subarya, C., Sarsito, D. A., Matheussen, S., Morgan, P., dan Spakman, W. (2007). a Decade of GPS in Southeast Asia: Resolving Sundaland Motion and Boundaries. *Journal of Geophysical Research: Solid Earth*, *112*(6), 1–20. https://doi.org/10.1029/2005JB003868.

Soebowo, E., Tohari, A., dan Sarah, D. (2007). Studi Potensi Likuifaksi di Daerah Zona Patahan Opak Patalan-Bantul, Jogjakarta. *Proseding Seminar Geoteknologi Kontribusi Ilmu Kebumian dalam Pembangunan Berkelanjutan* (pp. 57–65). Bandung.

Soehaimi, A. (2008). Seismotektonik dan Potensi Kegempaan Wilayah Jawa. *Jurnal Geologi Indonesia*, *3*(4), 227–240.

Stanaway, R., Roberts, C., Blick, G., dan Crook, C. (2012). Four Dimensional Deformation Modelling, the Link Between International, Regional and Local Reference Frames. *FIG Working Week*. Rome, Italy.

Starostenko, V., Gintov, O., Kutas, R., dan Pashkevich, I. (2010). Geodynamics of Lithosphere as One of the Crucial Factors of Mineral Deposits Formation of Ukraine. *Geodynamical Phenomena*, *32*(4), 162–163.

Sunantyo, T., Pramumijoyo, S., dan Husein, S. (2014). Pengukuran Jaring Pemantau Tahun 2013 dan Pemetaan Geologi di Kawasan Sekitar Sesar Opak, Provinsi DIY. *Annual Engineering Seminar* (pp. 41–50). Yogyakarta.

Susilo, Meilano, I., Hasanuddin Z. Abidin, dan Benyamin Sapiie. (2015). a New Definition of Sunda Block Rotation Model. *Joint Convention Balikpapan 2015 HAGI-IAGI-IAFMI-IATMI*. Balikpapan.

Tregoning, P., dan VanDam, T. (2005). Atmospheric Pressure Loading Corrections Applied to GPS Data at the Observation Level. *Geophysical Research Letters*, *32*(L22310). https://doi.org/10.1029/2005GL024104.

Tsuji, T., Yamamoto, K., Matsuoka, T., Yamada, Y., Onishi, K., Bahar, A., Meilano, I., dan Abidin, H. Z. (2009). Earthquake Fault of the 26 May 2006 Yogyakarta Earthquake Observed by SAR Interferometry. *Earth Planets Space*, *61*. https://doi.org/10.1186/bf03353189.

Ulinnuha, H. (2015). Analisis Deformasi Aspek Geometrik Segmen Mentawai Akibat Gempa Tektonik 10 Juli 2013. *Tesis Magister Teknik Geomatika*, Universitas Gadjah Mada.

USGS. (n.d.). the Band Designations for the Landsat Satellites.

Wallace, L. M., Beavan, J., McCaffrey, R., dan Darby, D. (2004). Subduction Zone Coupling and Tectonic Block Rotations in the North Island, New Zealand. *Journal of Geophysical Research*, *109*(B12406), 1–21. https://doi.org/10.1029/2004JB003241.

Walter, T. R., Wang, R., Luehr, B. G., Wassermann, J., Behr, Y., Parolai, S., Anggraini, A., Gunther, E., Sobiesiak, M., Grosser, H., Wetzel, H., Milkereit, C., Brotopuspito, P., Harjadi, P., dan Zschau, J. (2008). the 26 May 2006 Magnitude

6.4 Yogyakarta Earthquake South of Mt. Merapi Volcano: Did Lahar Deposits Amplify Ground Shaking and thus Lead to the Disaster? *Geochemistry, Geophysics, Geosystems*, *9*(5), 1–9. https://doi.org/10.1029/2007GC001810.

Wibowo, S. 2016. Penentuan Metode Pemodelan Deformasi Komponen Sekular Wilayah Indonesia Berdasarkan Data Pengamatan Geodetik. *Tesis Magister Teknik Geodesi*, Institut Teknologi Bandung, Bandung.

Widjajanti, N., Emalia, S. S., dan Parseno, P. (2018). GNSS Monitoring Network Optimization Case Study: Opak Fault Deformation, Yogyakarta. *JGISE: Journal of Geospatial Information Science and Engineering*, *1*(1), 14–21. https://doi.org/10.22146/jgise.38458.

Yong-Qi, C. (1983). *Analysis of Deformation Surveys-a Generalized Method*. Canada: University of New Brunswick.

Zoback, M. D. (2007). *Reservoir Geomechanics* (1st ed.). United States of America: Cambridge University Press.