

DAFTAR PUSTAKA

- Abidin, H.Z., Andreas, H., Gamal, M., Suganda, O.K., Meilano, I., Hendrasto, M., Kusuma, M.A., Darmawan, D., Purbawinata, M.A., Wirakusumah, A.D., dan Kimata, F., 2003. Ground Deformation during Papandayan Volcano 2002 Eruption as Detected by GPS Surveys. *Prosiding ITB Sains dan Teknologi*, Vol. 35B, No. 1, 2003, h. 45-60. Bandung
- Adrian, R. J., 1988, Statistical properties of particle image velocimetry measurements in turbulent flow, *Laser Anemometry in Fluid mechanics*, Instituto Superior Tecnico, Lisbon.
- Bemmelen, van, R. W., 1949, *The Geology of Indonesia*, Martinus Nyhoff, The Hague, Nederland.
- Brossard, C., J.C. Monnier, P. Barricau, F.-X. Vandernoot,, Y. Le Sant, F. Champagnat, G. Le Besnerais, 2009, Principles and Applications of PIV, *Journal Aerospace Lab*, Issue 1, Page 1-11.
- Crosetto, M., 2002. Calibration and validation of SAR interferometry for DEM generation, *ISPRS Journal of Photogrammetry and Remote Sensing*, Issue 3, Volume 57, Pages 213-22.
- Diefenbach, A.K., Katharine F.B., Rick L. W., Robert G. M., 2013, Photogrammetric Monitoring of Lava Dome Growth During the 2009 Eruption of Redoubt Volcano, *Journal of Volcanology and Geothermal Research*, 259, 308–316.
- Gonzalez, R.C., Richard E.W., 2006, *Digital Image Processing*, 3rd Edition, Pearson Prentice-Hall , Inc, Upper Saddle River, New Jersey.
- Hanifa N.R., 2007, Studi Penggunaan Kamera Digital Low-Cost Non-Metric Auto-Focus Untuk Pemantauan Deformasi, *Tesis*, Program Pasca Sarjana Fakultas Teknik Sipil dan Lingkungan, Institut Teknologi Bandung, Bandung.
- Harold B., Kornel K., 2005, Flow Visualization around Generic Bridge Shapes using Particle Image Velocimetry, *Proceedings Tenth Americas Conference on Wind Engineering*, Baton Rouge, LA.
- Joy, K.I., 1999, Numerical Methods for Particle Tracing in Vektor Fields, www.cs.ucdavis.edu/~ma/ECS177/particle_tracing.pdf, diakses tanggal 8 Oktober 2016
- Keane, R., D. and Adrian, R., J., 1990, Optimization of Particle Image Velocimeters: I Double Pulsed Systems. *Meas. Sci.Technol.* Number 11, Volume 1, Page 1205-1215.
- Major, J. J., D. Dzurisin, S.P. Schilling, M.P. Poland, 2009, Monitoring lava-dome growth during the 2004–2008 Mount St. Helens eruption using oblique terrestrial photography, *Earth and Planetary Science Letters*, 286, Page 243–254, Washington,.
- Nagai, M., Kiyoshi H., 2001, Concurrent Volcano Activity Mapping Sistem With Ground Fixed Single Digital Camera, *Paper presented at the 22nd Asian conference on Remote Sensing*, 5-9 November 2001, Singapore.

National Instruments IMAQ, 2000, IMAQ Vision Concepts Manual, National Instruments.

Purnomo, B.J., Ira M.A., Nurnaning A., 2014, Analisa Deformasi Untuk Prediksi Sumber Tekanan Magma Menggunakan Data GPS (Studi Kasus: Gunung Merapi, Daerah Istimewa Yogyakarta), *Journal of Geodesy and Geomatics (GEOID)*, Volume 10, No. 01, Page 81-86.

Purnomoputro, A., 2008, Analisis Data Tiltmeter Dengan Metode Fast Fourier Transform (FFT) Untuk Menentukan Periodisasi Deformasi Lava 56” Gunung Merapi, *Skripsi*, Program Sarjana Jurusan Fisika Fakultas Matematika dan Pengetahuan Alam Universitas Diponegoro, Semarang.

Raffel, M., Willert C.E., Kompenhans J., 1998, *Particle Image Velocimetry – A Practical Guide*, Springer-Verlag. Berlin Heidelberg.

Rahardjo, W., Srijono, S. Pramumijoyo, 1998, *Buku Panduan Ekskursi Geologi Regional*, Jurusan Teknik Geologi FT UGM, Yogyakarta.

Rohde, G.K., 2008, Introduction Image Analysis, *ISAC Imaging Course: day 1*, Carnegie Mellon.

Sasaki, H., Kenichi A., Shigenori F., Yumiko Y., Manabu M., 2013, Oblique Photogrammetry Sistem For Real-Time Monitoring Of Volcanic Activity. *IAVCEI 2013 Scientific Assembly - July 20 - 24, Kagoshima, Japan Forecasting Volcanic Activity - Reading and translating the messages of nature for society*, Japan.

Saumier, L. P., B. Khouider, M. Agueh, 2015, Optimal Transport for Particle Image elocimetry. *Commun. Math. Sci*, No. 1, Vol. 13, Page 269–296.

Taufik, A., 1997, Studi Mekanisme Pergerakan Lahar Gunung Merapi Ditinjau Dari Parameter-Parameter Yang Mempengaruhinya Pada DAS Kali Boyong, Jurusan Teknik Geologi, FT-UGM, Yogyakarta.

Walter, T.R., A. Ratdomopurbo, Subandriyo, Nurnaning A., Kirbani S.B., Jacqueline S., Birger L., 2013, Dome growth and coulée spreading controlled by surface morphology, as determined by pixel offsets in photographs of the 2006 Merapi Eruption, *Journal of Volcanology and Geothermal Research*.

Walter, T.R., J. Subandriyo, S. Kirbani, H. Bathke, W. Suryanto, N. Aisyah, H. Darmawan, P. Jousset, B. G. Lehr, T. Dahm, 2014, Volcano-tectonic Control of Merapi’s Lava Dome Splitting: The November 2013 Fracture Observed From High Resolution TerraSAR-X Data, *Tectonophysics*, 639 (2015), Page 23-33.

Westerweel, J., 1993, *Digital Particle Image Velocimetry – Theory and Application*, Delft, Delft University Press.

Westerweel, J., 1997, Fundamentals of digital particle image velocimetry, *Meas. Sci. Technol*, Volume 8, Page 1379-1392

Willert, C., E., and Gharib, M., 1991, Digital Image Velocimetry, *Exp. Fluids*, Volume 10, Page 181-193.



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MENGUNAKAN TEKNIK
FOTOGRAMETRI**

ILHAM NURDIEN, Dr. Budi Eka Nurcahya, M.Si

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Wolf, P.R., 1993, *Elemen Fotogrametri*, diterjemahkan oleh: Drs. Gunadi, Drs. Totok Gunawan,
dan Drs. Zuharnen, Gadjah Mada University Press, Yogyakarta.