

DAFTAR PUSTAKA

- [1] D. Tessel, P. Emeraldi, and A. Hazmi, "Sistem Deteksi Petir Multistation Dengan Metode Time Of Arrival," *Jurnal Nasional Teknik Elektro*, vol. 4, no. 1, 2015.
- [2] P. Emeraldi and A. Hazmi, "Karakteristik Medan Listrik Atmosfer Kota Padang dan Hubungannya dengan Sambaran Petir Awan ke Tanah," *Jurnal Nasional Teknik Elektro*, vol. 6, no. 1, Mar. 2017, doi: 10.20449/jnte.v6i1.385.
- [3] A. R. Jacobson, W. Boeck, and C. Jeffery, "Comparison of narrow bipolar events with ordinary lightning as proxies for the microwave-radiometry ice-scattering signature," *Mon Weather Rev*, vol. 135, no. 4, pp. 1354–1363, Apr. 2007, doi: 10.1175/MWR3342.1.
- [4] T. Wang et al., "Multiple-Antennae Observation and EMTR Processing of Lightning VHF Radiations," *IEEE Access*, vol. 6, pp. 26558–26566, May 2018, doi: 10.1109/ACCESS.2018.2833115.
- [5] A. R. Jacobson, R. H. Holzworth, and X. M. Shao, "Observations of multi-microsecond VHF pulsetrains in energetic intracloud lightning discharges," *Ann Geophys*, vol. 29, no. 9, pp. 1587–1604, 2011, doi: 10.5194/angeo-29-1587-2011.
- [6] Z. Abdul-Malek and N. Bashir, "Lightning Location and Mapping System Using Time Difference of Arrival (TDOA) Technique, Practical Applications and Solutions Using LabVIEW™ Software", Accessed: May 08, 2025. [Online]. Available: <http://www.intechopen.com/books/practical-applications-and-solutions-using-labview-software/lightning-location-and-mapping-system-using-time-difference-of-arrival-tdoa-technique>
- [7] Z. Sun, X. Qie, M. Liu, D. Cao, and D. Wang, "Lightning VHF radiation location system based on short-baseline TDOA technique - Validation in rocket-triggered lightning," *Atmos Res*, vol. 129–130, pp. 58–66, Jul. 2013, doi: 10.1016/j.atmosres.2012.11.010.
- [8] H. Liu et al., "A Time Delay Calibration Technique for Improving Broadband Lightning Interferometer Locating," *Remote Sens (Basel)*, vol. 15, no. 11, Jun. 2023, doi: 10.3390/rs15112817.
- [9] A. Alammari et al., "Kalman filter and wavelet cross-correlation for VHF broadband interferometer lightning mapping," *Applied Sciences (Switzerland)*, vol. 10, no. 12, Jun. 2020, doi: 10.3390/app10124238.
- [10] Y. Yair, "Lightning hazards to human societies in a changing climate," *Environmental Research Letters*, vol. 13, no. 12, Dec. 2018, doi: 10.1088/1748-9326/aaca86.

- [11] A. V. Rakov And A. M. Uman, *Lightning Physics and Effects*, 3rd ed. New York: The Press Syndicate of The University Of Cambridge, 2003. Accessed: May 08,2025.
- [12] T. Marshall, S. Bandara, S. Karunarathne, N. Karunarathne, R. Siedlecki, and M. Stolzenburg, "Lightning Initiation Observations in Mississippi Thunderstorms," 2017.
- [13] A. D. Putri, "Karakteristik Power Spectrum Very High Frequency (VHF) pada Petir Negative Cloud to Ground (-CG)," Universitas Andalas, Padang, 2023.
- [14] D. D. Hotiva, "Estimasi Besaran Arus Petir Berdasarkan Radiasi Medan Listrik," Universitas Andalas, Padang, 2023.
- [15] H. Bloemink, "Static electricity measurements for lightning warnings;an exploration," 2013. Accessed: May 08, 2025. [Online]. Available: www.knmi.nl/knmi-library/knmipub_en.html
- [16] S. Ria Riqmawatin and P. Keumala Intan, "Analisa Pemetaan Daerah Rawan Sambaran Petir Di Wilayah Kabupaten Pasuruan Dengan Menggunakan Metode Simple Additive Weighting," *Jurnal Mahasiswa Matematika ALGEBRA*, vol. 1, no. 1, pp. 198–210, Aug. 2020.
- [17] G. A. Ambaye, "Time and Frequency Domain Analysis of Signals: A Review," *International Journal of Engineering Research & Technology (IJERT)*, vol. 9, no. 12, Sep. 2020, [Online]. Available: www.ijert.org
- [18] W. Yin et al., "Lightning detection and imaging based on vhf radar interferometry," *Remote Sens (Basel)*, vol. 13, no. 11, p. NA, Jun. 2021, doi: 10.3390/rs13112065.
- [19] T. Wang, S. Qiu, L. H. Shi, and Y. Li, "Broadband VHF Localization of Lightning Radiation Sources by EMTR," *IEEE Trans Electromagn Compat*, vol. 59, no. 6, pp. 1949–1957, Dec. 2017, doi: 10.1109/TEMC.2017.2651142.
- [20] D. W. Boyd, "Stochastic Analysis," in *Systems Analysis and Modeling*, Elsevier, 2001, pp. 211–227. doi: 10.1016/b978-012121851-5/50008-3.
- [21] M. Nishihashi et al., "Three-dimensional VHF lightning mapping system for winter thunderstorms," *J Atmos Ocean Technol*, vol. 30, no. 2, pp. 325–335, Feb. 2013, doi: 10.1175/JTECH-D-12-00084.1.
- [22] A. R. Carballeira, F. A. P. de Figueiredo, and J. M. C. Brito, "Simultaneous Estimation of Azimuth and Elevation Angles Using a Decision Tree-Based Method," *Sensors*, vol. 23, no. 16, Aug. 2023, doi: 10.3390/s23167114.
- [23] F. S. Daniş and A. T. Cemgil, "Model-based localization and tracking using bluetooth low-energy beacons," *Sensors (Switzerland)*, vol. 17, no. 11, Nov. 2017, doi: 10.3390/s17112484.
- [24] S. D. Kim and J. W. Chong, "A Novel TDOA-Based Localization Algorithm Using Asynchronous Base Stations," *Wirel Pers Commun*, vol. 96, no. 2, pp. 2341–2349, Sep. 2017, doi: 10.1007/s11277-017-4301-5.

- [25] X. Qin, Y. Huang, and Z. Hong, "A 6-7 GHz, 40 dB receiver RF front-end with 4.5 dB minimum noise figure in 0.13 μm CMOS for IR-UWB applications," *Journal of Semiconductors*, vol. 34, no. 3, Mar. 2013, doi: 10.1088/1674-4926/34/3/035006.

