

DAFTAR PUSTAKA

- [1] Cambridge University Press, *Fundamentals of Lightning*, 1st ed., Cambridge, UK: Cambridge Univ. Press, 2016.
- [2] L. C. O. Pereira, M. I. D. Costa, P. J. C. Silva, and G. de Carvalho, "A Method to Obtain Lightning Peak Current in Indonesia," *Energies*, vol. 16, no. 17, Art. 6342, 2023.
- [3] M. Fauzi, Muliadi, M. Raudhi Azmi, Syukri, and T. Multazam, "Analisis Penangkal Petir dan Luas Area yang Terproteksi Pada BTS," *Aceh J. Electr. Eng. Technol.*, vol. 1, no. 1, pp. 23–28, 2021.
- [4] W. Raharjo, W. Widariant, H. Inamullah, dan C. Rizal, "Evaluasi grounding sistem tower seluler kantor MCC TAL PT. Bukit Asam," *Jurnal Teknik Elektro*, Univ. Palembang, vol. 13, no. 1, 2023.
- [5] R. R. Wirasari, S. Hardi, R. Rohana, and M. Harahap, "Analisa Sambaran Petir Terhadap Sistem Proteksi Tower Telekomunikasi Menggunakan Simulasi Software Atp Draw," *Rang Tek. J.*, vol. 5, no. 2, pp. 373–378, 2022, doi: 10.31869/rtj.v5i2.3416.
- [6] M. Li, R. Huang, F. Fei, S. Hua, J. Gu, dan Z. Pang, "Analysis on Surge Characteristics and Protection for Wind Turbines Based on ATP-EMTP Simulation," in *Proceedings of the 2023 4th International Symposium on Insulation and Discharge Computation for Power Equipment (IDCOMPU2023)*, Singapore, Dec. 2023, pp. 257–263.
- [7] P. B. Adhikari and A. Adhikari, *Lightning Discharges: Formation, Terminologies, Measurements and Theory*, SpringerBriefs in Applied Science and Technology, 2020.
- [8] A. Hazmi, M. I. Hamid, R. Fernandez, H. Andre, R. W. Pratama, dan P. Emeraldi, "The correlation between lightning and various weather parameters in the Padang monsoon system," *Indonesian J. Electr. Eng. Comput. Sci.*, vol. 31, no. 1, pp. 1–9, Jul. 2023.
- [9] K. Tennakone dan P. Hewageegana, "A model for thundercloud charge separation," *Sri Lankan J. Phys.*, vol. 13, no. 2, pp. 1–7, 2013.
- [10] I. F. Gonos, K. Theofilatos, dan M. Papadopoulos, "Probability of backflashover in transmission lines due to lightning strokes using Monte-Carlo simulation," *Electrical Power & Energy Systems*, vol. 25, no. 2, pp. 107–111, Mar. 2003.
- [11] M. Grebović, N. Oprašić, V. Helać, et al., "An Approach for Estimating Lightning Current Parameters Using the Empirical Mode Decomposition Method," *Sensors*, vol. 22, no. 24, art. 9925, 2022.
- [12] F. M. Santa, F. H. Martínez, and E. Jacinto, "Risk simulation of having direct contact with electric urban networks," *Telkomnika (Telecommunication Comput. Electron. Control)*, vol. 17, no. 5, pp. 2276–2284, 2019, doi: 10.12928/TELKOMNIKA.v17i5.12482.
- [13] R. R. Wirasari dan A. I. Makdunia, "Sistem Proteksi Petir Tower

- Telekomunikasi di Kantor MSC PT. Smartfren,” *Jurnal Pendidikan Tambusai*, vol. 8, no. 3, pp. 50992–50999, Dec. 2024.
- [14] F. Gemilang, “Sistem Proteksi Sambaran Petir Pada Base Transceiver Station Telkomsel Karawang,” *Power Elektron. J. Orang Elektro*, vol. 11, no. 1, p. 51, 2022, doi: 10.30591/polektro.v11i1.2730.
 - [15] A. T. Sudjianto, C. Aditya, A. Halim, dan F. Fachrudin, “The comparison study of the monopole tower foundation using CPT and laboratory data in Gresik district, East Java–Indonesia,” *EUREKA: Physics and Engineering*, vol. 3, no. 3, pp. 127–139, 2021, doi: 10.21303/2461-4262.2021.001860.
 - [16] B. D. Handono and M. D. J. Sumajouw, “Perencanaan Struktur Tower BTS Tipe Self supporting Tower,” *J. Sipil Statik*, vol. 8, no. 5, pp. 765–778, 2020.
 - [17] S.-D. Kang, S.-C. Kim, K.-B. Park, dan J.-H. Kim, “A Study on the Current Status and Reduction Method Caused by Lightning at Educational Facilities,” *Energies*, vol. 14, no. 11, Art. 3015, May 2021, doi:10.3390/en14113015.
 - [18] Z. Hakim, “Masjid Raya Mujahidin Menggunakan Metode Bola Bergulir (Rolling Sphere Method),” *Univ. Tanjungpura*, pp. 1–7, 2017.
 - [19] C. Yang, H. Li, X. Li, et al., “Numerical Study of Lightning Protection of Wind Turbine Blade with De-Icing Electrical Heating System,” *Energies*, vol. 13, no. 3, art. 691, Feb. 2020, doi:10.3390/en13030691.
 - [20] H. Yuliadi, S. Hardi, and R. Rohana, “Analisis Perbandingan Tahanan Pentanahan Pada Elektroda Batang Dan Plat Untuk Perbaikan Nilai Resistansi Pembedaan,” *RELE (Rekayasa Elektr. dan Energi) J. Tek. Elektro*, vol. 4, no. 1, pp. 68–74, 2021.
 - [21] J. Nahman and V. Djordjevic, “Grounding resistance of vertical grounding rods,” *IEEE Transactions on Power Delivery*, vol. 4, no. 4, pp. 2053–2059, Oct. 1989, doi:10.1109/61.32662.
 - [22] O. Santini et al., “Grounding Electrodes with Internal Resistance: Application to Feasibility Study of the Driven-Rod Method for Modeling the Soil Electrical Resistivity Profile,” *Appl. Sci.*, vol. 11, art. 5032, 2021, doi:10.3390/app11115032.
 - [23] X. Pejtmalli, P. Cipo, A. Muçka, and F. Vrapı, “Protection from Direct Lightning Strike in the Main Building of the Polytechnic University of Tirana,” *Acad. J. Interdiscip. Stud.*, vol. 4, no. 2, pp. 250–258, 2015, doi: 10.5901/ajis.2015.v4n2s2p250.
 - [24] International Electrotechnical Commission, *Effects of current on human beings and livestock – Part 1: General aspects*, IEC 60479-1, 4th ed., Geneva, Switzerland: IEC, 2018.