

REFERENCES

- [1] K. S. Lock, "Lightning protection, earthing and surge protection of base transmission stations," in *2011 7th Asia-Pacific International Conference on Lightning*, pp. 436–440, IEEE, 2011.
- [2] A. Elmghairbi, A. Haddad, and H. Griffiths, "Potential rise and safety voltages of wind turbine earthing systems under transient conditions," in *Proceedings of 20th international conference on electricity distribution (CIRED2009)*, pp. 8–11, IET, 2009.
- [3] A. Chandimal and C. Gomes, "Lightning related effects on the neighborhood of telecommunication tower sites," in *2012 International Conference on Lightning Protection (ICLP)*, pp. 1–6, IEEE, 2012.
- [4] R. Narayan, "Method for the design of lightning protection, noise control and grounding system at a telecom facility intelc® 2014," in *2014 IEEE 36th International Telecommunications Energy Conference (INTELEC)*, pp. 1–10, IEEE, 2014.
- [5] N. Rameli, M. AbKadir, M. Izadi, C. Gomes, and N. Azis, "Effect of the grounding system arrangement on the lightning current along tall structures," in *2014 International Conference on Lightning Protection (ICLP)*, pp. 456–460, IEEE, 2014.
- [6] C. Dai, Q. Wang, X. Zhang, S. Chen, and Z. Huang, "Lightning currents in dbs system from triggered-lightning experiments at guangdong, china," in *2014 International Conference on Lightning Protection (ICLP)*, pp. 131–135, IEEE, 2014.
- [7] M. S. U. Yusuf, M. Z. Islam, and M. Ahmad, "Analysis of lightning surge characteristics for transmission towers," in *2014 9th International Forum on Strategic Technology (IFOST)*, pp. 280–283, IEEE, 2014.
- [8] N. A. Abd Rahman, A. M. A. Marican, A. M. Davies, M. Z. A. A. Kadir, and N. Abdullah, "A practical method for optimised earth electrode designs at transmission towers exposed to lightning," in *2011 7th Asia-Pacific International Conference on Lightning*, pp. 131–134, IEEE, 2011.
- [9] N. A. Rahman, A. A. Marican, and M. A. Kadir, "Optimised transmission tower earthing: Experience in design and operation," in *2014 International Conference on Lightning Protection (ICLP)*, pp. 1600–1603, IEEE, 2014.

- [10] A. Samanfar and B. Mahamedi, “Directional high-resistance earth fault detector based on zero-sequence components and wavelet transform,” in *2010 IEEE International Conference on Power and Energy*, pp. 151–155, IEEE, 2010.
- [11] M. Almeida and M. C. De Barros, “Accurate modelling of rod driven tower footing,” *IEEE transactions on power delivery*, vol. 11, no. 3, pp. 1606–1609, 1996.
- [12] “IEEE guide for measuring earth resistivity, ground impedance, and earth surface potentials of a grounding system - redline,” *IEEE Std 81-2012 (Revision of IEEE Std 81-1983) - Redline*, pp. 5–22, 2012.
- [13] K. Isaac, Y. Nti1 Albert, N. Owusu, “Assessment and prediction of earthing resistance in domestic installation”, Engineering Reports published by John Wiley & Sons, Ltd, 2020
- [14] Ashouri M., Mirzaie M., and Gholami A., “Calculation of voltage distribution along porcelain suspension insulators based on finite element method,” *Electric Power Components and Systems*, vol. 38, no. 7, pp. 820-831, 2010.