

DAFTAR PUSTAKA

- [1] A. F. S. Admaja, "Kajian Awal 5G Indonesia (5G Indonesia Early Preview)," *Bul. Pos dan Telekomun.*, vol. 13, no. 2, p. 97, 2015, doi: 10.17933/bpostel.2015.130201.
- [2] H. Ali, P. Singh, S. Kumar, and T. Goel, "A Minkowski fractal ultrawide band antenna for 5G applications," *2017 IEEE Int. Conf. Antenna Innov. Mod. Technol. Ground, Aircr. Satell. Appl. iAIM 2017*, vol. 1, no. c, pp. 1–5, 2018, doi: 10.1109/IAIM.2017.8402541.
- [3] S. Raj, N. Kishore, G. Upadhyay, S. Tripathi, and V. S. Tripathi, "A compact design of circularly polarized fractal patch antenna for 5G application," *IEEE MTT-S Int. Microw. RF Conf. IMArc 2018*, pp. 1–4, 2018, doi: 10.1109/IMaRC.2018.8877167.
- [4] J. Ecotipe, R. Syafira, S. Alam, and I. Surjati, "Perancangan Antena Mikrostrip Fractal Minkowski Array pada Frekuensi 3 . 5 GHz untuk Sistem Komunikasi 5G," vol. 8, no. 2, pp. 93–99, 2021.
- [5] S. T. Wirawan and H. Wijanto, "DESIGN AND IMPLEMENTATION OF FRACTAL KOCH MICROSTRIP ANTENNA FOR ULTRA WIDEBAND APPLICATION (3.1-10.6) GHz," *J. Tugas Akhir*, vol. 2, no. 1, pp. 1–8, 2015.
- [6] H. U. Mustakim, "Tantangan Implementasi 5G di Indonesia," *INTEGER J. Inf. Technol.*, vol. 4, no. 2, pp. 1–10, 2019, doi: 10.31284/j.integer.2019.v4i2.561.
- [7] A. S. B. Mohammed *et al.*, "Microstrip patch antenna: A review and the current state of the art," *J. Adv. Res. Dyn. Control Syst.*, vol. 11, no. 7 Special Issue, pp. 510–524, 2019.
- [8] S. Alam, I. Surjati, A. Ferawan, and T. Firmansyah, "Design and realization of compact microstrip antenna using fractal sierpenski carpet for wireless fidelity application," *Indones. J. Electr. Eng. Informatics*, vol. 6, no. 1, pp. 70–78, 2018, doi: 10.11591/ijeei.v6i1.390.
- [9] K. Mahendran, K. Dhivya, and V. Prasanniya, "Microstrip Patch Antenna Enhancement Techniques: a Survey," *Int. J. Eng. Appl. Sci. Technol.*, vol. 04, no. 11, pp. 245–249, 2020, doi: 10.33564/ijeast.2020.v04i11.042.
- [10] A. D. Satya, E. Y. D. Utami, and A. A. Febrianto, "Perancangan dan Realisasi Antena Mikrostrip Persegi Panjang MIMO pada Frekuensi 15 GHz," *Techné J. Ilm. Elektrotek.*, vol. 21, no. 1, pp. 63–74, 2022, doi: 10.31358/techné.v21i1.307.
- [11] A. Muqit, "Pengertian dan Definisi Antena," *Www.Researchgate.Net*, p. 2, 2020, [Online]. Available: https://www.researchgate.net/publication/342886180_Antena
- [12] R. Jhon *et al.*, "PADA FREKUENSI 1 , 8 GHz UNTUK APLIKASI LTE DESIGN AND REALIZATION FOR 4X4 MIMO BOWTIE MICROSTRIP ANTENNA ON 1 . 8 GHz FREQUENCY FOR LTE APPLICATION," vol. 3, no. 2, pp. 1763–1771, 2016.
- [13] T. Haryadi, R. Baskara, and T. Suartini, "Perancangan Antena Fraktal Ultra Wideband," *Electrans*, vol. 13, no. 1, pp. 43–48, 2014, [Online]. Available: <http://jurnal.upi.edu/>