

## DAFTAR PUSTAKA

- [1] P. Dani Prasetyo Adi and A. Kitagawa, "A performance of radio frequency and signal strength of LoRa with BME280 sensor," *TELKOMNIKA Telecommunication, Computing, Electronics and Control*, vol. 18, no. 2, pp. 649-660, 2020.
- [2] J. Haxhibeqiri, E. De Poorter, I. Moerman and J. Hoebeke, "A Survey of LoRaWAN for IoT: From Technology to Application," *sensors*, pp. 2-38, 16 November 2018.
- [3] A. Cenca Perdana, B. S. Nugroho and Edwar, "Perancangan Antena Mikrostrip Untuk Lora Pada Frekuensi 922 MHz," in *e-Proceeding of Engineering*, Bandung, 2022.
- [4] P. Devi Dama Istianti, S. Yudo Prawiro, N. Bogi Aditya Karna and I. A. NurSafa, "Analisis Performansi Teknologi Akses LPWAN LoRa Antares Untuk Komunikasi Data End Node," in *CITEE*, Bandung, 2019.
- [5] M. R. Siahaan, L. O. Nur and R. Anwar, "Design and Realization of Wideband Printed Monopole Antenna with Tel-U Logo Patch," *IJAIT*, vol. 4, no. 1, pp. 2-9, 2020.
- [6] C. A. Balanis, *ANTENNA THEORY ANALYSIS AND DESIGN FOURTH EDITION*, Hoboken, New Jersey: John Wiley & Sons, Inc., 2016.
- [7] S. Fabricant, "Cheap but effective satellite antennas Part 1: Omnidirectionals," *FB NEWS Worldwide*, 2024. [Online]. Available: [https://www.fbnews.jp/202205/w\\_workbench/](https://www.fbnews.jp/202205/w_workbench/). [Accessed 20 Mey 2024].
- [8] S. Baudha, K. Kapoor and M. V. Yadav, "U-Shaped Microstrip Patch Antenna with Partial Ground Plane for Mobile Satellite Services (MSS)," in *URSI*, New Delhi, India, 2019.
- [9] W. G. Whittow and A. Motevasselian, "Substrates with non-uniform 3D geometries for miniaturization of microstrip patch antennas and aesthetic design," *USNC-URSI Radio Science Meeting*, p. 12, 2014.
- [10] K. Wa Leung, H. L. E. Fellow and X. Sheng Fang, "Dielectric Resonator Antennas: From the Basic to the Aesthetic," *Proceedings of the IEEE*, vol. 100, no. 7, pp. 2181-2193, July 2012.
- [11] Y. Rahmawati, P. K. Goran and V. Ulitama, "Modifikasi Antena Mikrostrip Berbasis Defected Ground Structure (DGS) Berbentuk Patch Puzzle untuk Aplikasi Sub-6 GHz

- 5G," *JOURNAL OF TELECOMMUNICATION, ELECTRONICS, AND CONTROL ENGINEERING (JTECE)*, vol. 5, no. 2, pp. 109-118, 2023.
- [12] L. Ade Oktaviana, B. Setia Nugroho and L. O. Nur, "MINIATURISASI FLEKSIBEL ANTENNA FREKUENSI UHF MENGGUNAKAN DEFECTED GROUND STRUCTURE UNTUK APLIKASI RFID," in *e-Proceeding of Engineering*, Bandung, 2020.
- [13] L. ChengduEbyteElectronicTechnologyCo., "ebyte," ebyte, 2021. [Online]. Available: <https://www.cdebyte.com/products/E96-DTU%28433L20-485%29-V8>. [Accessed 12 May 2024].
- [14] M. Umar Khan, M. Said Sharawi and R. Mitra, "Microstrip patch antenna miniaturisation techniques: a review," *IET Microwaves, Antennas & Propagation*, vol. 9, no. 9, pp. 913-922, 2015.
- [15] N. Hadriawan, A. Rusdinar and I. Purnama, "Rancang Bangun Unmanned Ground Vehicle (UGV) Dengan Kendali Jarak Jauh," *e-Proceeding of Engineering*, vol. 9, no. 5, p. 2405, 2022.
- [16] P. Lokhande and B. Salokhe, "Design & Simulation of Circular Microstrip Antenna with Defected Ground Structure (DGS) for WLAN Applications," *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)*, pp. 46-50.
- [17] V. Slyusar, "METAMATERIALS ON ANTENNA SOLUTIONS," *International Conference on Antenna Theory and Techniques*, pp. 19-24, 6-9 October 2009.
- [18] L. Ammai, R. Anwar and D. A. Nurmantris, "Analysis on Multi Rings Defected Ground Structure For Microstrip Antenna Miniaturization," in *International Conference on Engineering Technologies and Technopreneurship (ICE2T)*, Bandung, 2017.
- [19] L. Ammai, L. O. Nur and R. Anwar, "PENURUNAN MUTUAL COUPLING ANTENA MIMO MENGGUNAKAN PERIODIK DEFECTED GROUND STRUCTURE U-SHAPE," *TEKTRIKA*, vol. 5, no. 2, pp. 42-48, 2020.