

## DAFTAR PUSTAKA

- [1] Andi Muhammad Nur, Rina Pudji Astuti , Levy Olivia Nur (2022).“ Perancangan & Fabrikasi Antena Mikrostrip MIMO 4×4 Patch Persegi Panjang Dengan Teknik Pencatuan ELECTROMAGNETICALLY COUPLED Untuk Aplikasi WI-FI 802.11ax Di Indoor Pada Frekuensi 2.4 Ghz”, *Open Library Telkom University*.
- [2] Maruyama, S., & Fukusako, T. (2014). “ An Interpretative Study on Circularly Polarized Patch Antenna Using Artificial Ground Structure”.*IEEE*
- [3] H. Mosallaei and K. Sarabandi, “Antenna miniaturization and bandwidth enhancement using a reactive impedance substrate,” *IEEE Trans. Antennas Propag.*, vol. 52, no. 9, pp. 2403–2414, Sep. 2004.
- [4] T. Nakamura and T. Fukusako, “Broadband design of circularly polarized microstrip patch antenna using artificial ground structure with rectangular unit cells,” *IEEE Trans. Antennas Propag.*, vol. 59, no. 6, pp. 2013–2017, Jun. 2011.
- [5] Salim, N., Singh, M. S. J., & Abed, A. T. (2024). COMPACT CPW4X4 MIMO ANTENNA FOR WI-FI 6 (IEEE802.11.AX) AND 5G(NR77/NR78/NR79) COMMUNICATIONS. *IIUM Engineering Journal*, 25(1), 225–236.
- [6] Ramineni Padmasree, Janardhan Rao Duddela , Venu Gogula (2024). Designing a Dual band 4X4 MIMO Antenna for Optimized Performance in 5G Mobile Devices. . *International Journal of Engineering Research and Applications*, Vol. 14, pp: 57-66.

- [7] Zheng, Y., & Sheng, W, Compact dual-polarized filtering antenna with enhanced bandwidth for 5G sub-6 GHz applications, *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 31(9), pp.1–14,2021.
- [8] Yu-Xuan Zhang. et.al. (2020).Low-Profile Wideband Conjoined Open-Slot Antennas Fed by Grounded Coplanar Waveguides for  $4 \times 4$  5G MIMO Operation. *IEEE*.
- [9] Heru Brianto, Irmayani. (2023). Desain Antena Mikrostrip Antena Segi Empat MIMO 4X4 Untuk Aplikasi WIFI dan WIMAX. *Syntax Literate*.
- [10] T. Nakamura and T. Fukusako, "Broadband design of circularly polarized microstrip patch antenna using artificial ground structure with rectangular unit cells," *IEEE Trans. Antennas Propag.*, vol. 59, no. 6, pp. 2013–2017, Jun. 2011.
- [11] Pookkapund, K., Sakonkanapong, A., Kuse, R., Phongcharoenpanich, C., & Fukusako, T. (2020). Broadband Circularly Polarized Microstrip Patch Antenna Using Circular Artificial Ground Structure and Meandering Probe. *IEEE Access*, 8, 173854–173864.
- [12] Gilbert M Jeffrey, Choi Won-Joon and Sun Qinfang," MIMO technology for advanced wireless local networks," *Atheros communication Inc, Sunnyvale, CA*, 413-415
- [13] Trzebiatowski, K., Fromme, J., Duraj, D., Kulas, L., & Nyka, K. (2022). A Dual-Polarized 39 GHz 4x4 Microstrip Antenna Array for 5G

MU-MIMO Airflight Cabin Connectivity. 2022 24th International Microwave and Radar Conference (MIKON).

[14] Soni, G., Kaur, G., & Banga, V. K. (2016). *Implementation & BER Analysis of 2×2 MIMO Using USRP 2920- Universal Software Radio Peripheral. 2016 Second International Conference on Computational Intelligence & Communication Technology (CICT).*

[15] Haque Md. Mejbul, Rahman Mohammad Shaifur and Kim KiDoo, "Performance Analysis of MIMO-OFDM for 4G Wireless systems under Rayleigh Fading Channel", International Journal of Multimedia and Ubiquitous Engineering, Khulana,seoul,vol.8,no. 1,Jan 2013,29-40