DAFTAR PUSTAKA

[1] N. A. Fauzan, N. Ismail, and I. Lindra, "Rancang bangun Antena Mikrostrip Multi Band dengan Patch Rectangular Untuk Frekuensi 2,4 GHz, 2,6 GHz, dan 3,5 GHz," *Seminar Nasional Teknik Elektro 2020,* pp. 93-100, 2020.

[2] D. Paragya and H. Siswono, "3,5 GHz Rectangular Patch Microstrip Antenna with Defected Ground Structure for 5G," *ELKOMIKA,* vol. 8, no. 1, pp. 31-42, 2020.

[3] N. Ramadhan, "Design and Build a 2x2 Rectangular Array Microstrip Antenna with Defected Ground Structure (DGS) Method at 3,5 GHz Frequency for 5G Communication Systems," *Digilib Mercubuana,* 2022.

[4] 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," *JTECE,* vol. 5, no. 2, pp. 109-118, 2023.

[5] U. S. Zulpratita, "Kunci Teknologi 5G," *JITTER,* vol. IV, no. 2, 2018.

[6] A. Gani, "Implementation of Massive MIMO in 5G Networks: Strategy and Technical Studies in Indonesia," *Indonesian Journal of Advanced Research (IJAR),* vol. 2, no. 3, pp. 189-200, 2023.

[7] L. Ammai, L. O. Nur, and R. Anwar, "Penurunan Mutual Coupling Antena MIMO Menggunakan Periodik Defected Ground Structure U-Shape," *Jurnal TEKTRIKA,* vol. 5, no. 2, 2020.

[8] S. Romadhona, M. P. Kusuma Praja, and R.A. Rochmanto, "Desain Antena Mikrostrip Rectangular Frekuensi 3,5 GHz Menggunakan Metode Slits," *Science Tech,* vol. 9, no. 2, pp. 140-151, 2023.

[9] Iznih, S. Alam, Y. K. Ningsih, and L. Sari "Perancangan Antena Mikrostrip Array 2x1 Berpolarisasi Melingkar pada Frekuensi 3,5 GHz untuk Sistem Komunikasi 5G," *Techne Jurnal Ilmiah Elektroteknika,* vol. 22, no. 2, pp. 319-332, 2023.

[10] C. I. D. Anggitaratna, B. S. Nugroho, and L.O. Nur, "Perancangan dan Analisis Antena Mikrostrip Berbasis Metamaterial pada Frekuensi 3,5 GHz untuk Aplikasi 5G," *e-Proceeding of Engineering,* vol. 8, no. 1, p. 214, 2021.

[11] C. A. Balanis, Antenna Theory, Analysis, and Design Third Edition, Canada: John Wiley & Sons, Inc., Hoboken, New Jersey, 2005.

[12] M. R. Sumpena, H. Madiawati, and E. Elisma, "Desain Antena Susun Mikrostrip Rectangular Patch 4x2 Untuk Aplikasi 5G," *Prosiding The 11th Industrial Research Workshop and National Seminar,* 2020.

[13] F. Abdurrahman, "Desain Antena Microstrip Rectangular Untuk WIFI pada Frekuensi 2,462 GHz dan 5,52 GHz," *Universitas Islam Indonesia,* 2018.

[14] M. A. Khofid, "Perancangan Antena Mikrostrip Patch Rectangular Array 2x1 Untuk Teknologi WIFI Frekuensi 2,4 GHz," *Universitas Hasanuddin,* 2022.

[15] J. Jonifan, Y. Rafsyam, and Z. A. Sanaz, "Desain Antena Mikrostrip Inset Fed Bercelah H dengan Metode Defected Ground Structure (DGS) Sebagai Penguat Bluetooth," *ORBITH,* vol. 17, no. 1, pp. 56-61, 2021.

[16] M. P. Supriadi, N. Madhatillah, and H. Ludiyati, "Pengaruh Defected Ground Structure (DGS) Geometri Vertikal terhadap Antena Mikrostrip Berbahan Material Dielektrik Artifisial," *Prosiding The 12th Industrial Research Workshop and National Seminar,* 2021.

[17] A. M. Pinasthika, B. S. Nugroho, and T. Yunita, "Antena MIMO Patch Sirkular

Menggunakan Metode Defected Ground Structure (DGS) dengan Mutual Coupling Paling Rendah," *e-Proceeding of Engineering,* vol. 10, no. 6, p. 5172, 2023.

[18] P. Fikri, P. Jaya, and D. Faiza, "Analisa Pengaruh Truncated Corner Terhadap Bandwidth dan Return Loss pada Antena Microstrip 2,4 GHz," *Vote Teknika,* vol. 11, no. 2, 2023.

[19] F. R. Bhakti, "Rancang Bangun Antena Wideband 2,6 GHz Berbasis Microstrip dengan Menggunakan Metode Defected Ground Structure," *Institut Teknologi Sepuluh November,* 2020.

[20] M. Anthoni et al., "Perancangan dan SImulasi Antena Mikrostrip MIMO 4x4 Rectangular Patch dengan Double U-Slot dan DGS pada Frekuensi 26 GHz untuk Aplikasi 5G," *Journal of Science and Applicative Technology,* vol. 5, no. 2, pp. 371-382, 2021.

[21] D. O. Pelawi, and A. H. Rambe, "Studi Perancangan Antena Mikrostrip Patch Segiempat dengan Tipe Polarisasi Melingkar Menggunakan Ansoft," *Singuda Ensikom,* vol. 3, no. 1, 2013.

[22] M. A. Fadhlurrohman, and D. Kristyawati, "Perancangan dan Analisa Antena Mikrostrip Patch 3,5 GHz Menggunakan Software CST Studio Suite 2022 Untuk Teknologi 5G," *JUIT,* vol. 2, no. 2, pp. 37-50, 2023.