DAFTAR PUSTAKA

[1] J. T. Bernhard, "Reconfigurable antennas," *Synthesis lectures on antennas*, vol. 2, no. 1, pp. 1–66, 2007.

[2] N. O. Parchin, H. J. Basherlou, Y. I. Al-Yasir, A. Ullah, R. A. Abd-Alhameed, and J. M. Noras, "Frequency reconfigurable antenna array with compact end-fire radiators for 4g/5g mobile handsets," in *2019 IEEE 2nd 5G World Forum (5GWF)*. IEEE, 2019, pp. 204–207.

[3] L. Wardhana, B. Aginsa, A. Dewantoro, I. Harto, G. Mahardika, and A. Hikmaturokhman, "4g handbook edisi bahasa indonesia," *Jakarta Selatan: www. nulisbuku. com*, 2014.

[4] A. Dogra, R. K. Jha, and S. Jain, "A survey on beyond 5g network with the advent of 6g: Architecture and emerging technologies," *IEEE Access*, vol. 9, pp. 67 512–67 547, 2020.

[5] V. W. Wong, R. Schober, D. W. K. Ng, and L.-C. Wang, *Key technologies for 5G wireless systems*. Cambridge university press, 2017.

[6] A. M. Raharjo, Z. Maryam, and R. Hakimi, "Spectrum analysis of 5g initial deployment for indonesia," in *2020 14th International Conference on Telecommunication Systems, Services, and Applications (TSSA*. IEEE, 2020, pp. 1–4.

[7] F. Febriyandi and I. Krisnadi, "Rekomendasi itu pada alokasi spektrum 5g di indonesia itu recommendation on 5g spectrum allocation in indonesia," *Universitas Indonesia*, 2019.

[8] C. A. Balanis, *Antenna theory: analysis and design*. John wiley & sons, 2015.

[9] S. M. Putri, "Analisis antena mikrostrip fraktal sierpinski gasket mimo," *Jurnal Elektro dan Telkomunikasi*, vol. 4, no. 2, pp. 55–61, 2018.

[10] E. C. Pradana, R. P. Astuti, and T. Yunita, "Antena multiple input miltiple output (mimo) untuk base tranceiver station (bts) sistem pemantau sungai citarum pada industrial, scientific, and medical (lsm) band 2, 4-2, 5 ghz," *eProceedings of Engineering*, vol. 7, no. 2, 2020.

[11] M. Iqbal, B. S. Nugroho, and A. D. Prasetyo, "Antena reconfigurable untuk aplikasi cognitive radio pada spektrum 1800, 2100, 2300, 2600 mhz," *eProceedings of Engineering*, vol. 5, no. 2, 2018.

[12] S. N. M. Zainarry, S. J. Chen, and C. Fumeaux, "A pattern-reconfigurable single-element microstrip antenna," in *2018 IEEE Radio and Antenna Days of the Indian Ocean (RADIO)*. IEEE, 2018, pp. 1–2.

[13] V. Y. Deshmukh and S. Chorage, "Review of reconfigurable antennas for future wireless communication," in *2020 International Conference on Emerging Smart Computing and Informatics (ESCI)*. IEEE, 2020, pp. 28–33.

[14] S. Nikolaou, N. D. Kingsley, G. E. Ponchak, J. Papapolymerou, and M. M. Tentzeris, "Uwb elliptical monopoles with a reconfigurable band notch using mems switches actuated without bias lines," *IEEE Transactions on Antennas and Propagation*, vol. 57, no. 8, pp. 2242–2251, 2009.

[15] C. A. Balanis, *Modern antenna handbook*. John Wiley & Sons, 2011.

[16] N. Ojaroudi Parchin, H. Jahanbakhsh Basherlou, Y. I. Al-Yasir, A. M. Abdulkhaleq, and R. A. Abd-Alhameed, "Reconfigurable antennas: Switching techniquesa survey," *Electronics*, vol. 9, no. 2, p. 336, 2020.

[17] M. Ismail, M. Rahim, and H. Majid, “The investigation of pin diode switch on reconfigurable antenna,” in *2011 IEEE International RF & Microwave Conference*. IEEE, 2011, pp. 234–237.