

## DAFTAR REFERENSI

- [1] F. Hu, B. Chen and K. Zhu, "Full Spectrum Sharing in Cognitive Radio Networks toward 5G: A Survey," *IEEE Access*, vol. 6, pp. 15754-15776, 2018.
- [2] Asia-Pacific Telecommunity, "Preliminary Views On WRC-19 Agenda Item1.13," in *The 3rd Meeting of the APT Conference Preparatory Group for WRC-19 (APG19-3)*, Perth, March 2018.
- [3] Radiocommunication Sector of ITU, *Minimum requirements related to technical performance for IMT-2020 radio interface(s)*, ITU, 2017.
- [4] S. Suyama, T. Okuyama, Y. Inoue and Y. Kishiyama, "5G Multi-antenna Technology," *NTT DOCOMO Technical Journal*, vol. 17, 2016
- [5] Y. Kishiyama, A. Benjebbour, S. Nagata, Y. Okumura and N. Takehiro, "NTT DOCOMO 5G Activities -Toward 2020 Launch of 5G Services-," *NTT DOCOMO Technical Journal*, vol. 17, 2016.
- [6] A. F. S. Admaja, "Kajian Awal 5G Indonesia," *Buletin Pos dan Telekomunikasi*, vol. 13, pp. 97-114, 2015.
- [7] A. K. Muhidin, H. Madiawati, Y. Sulaeman, and K. Kunci, "Desain Antena MIMO 2x2 Patch Rectangular untuk Komunikasi 5G pada Frekuensi 3 , 5 GHz dengan Peningkatan Gain Menggunakan Akrilik," pp. 26–27, 2020.
- [8] Mohamad Sholeh, Yusnita Rahayu, "Perancangan Antena MIMO Susunan 37 GHz Untuk Jaringan Komunikasi 5G," in *Jom FTEKNIK*, vol. 5, no. 2, 2018.
- [9] Pradina, Wahyu Ananda Sabilla, Heroe Wijanto, and Trasma Yunita. "Antena Mimo 4× 2 Susunan 2 Elemen Mikrostrip Patch Sirkular 3, 5 Ghz Untuk Bts 5g (mimo 4× 2 Of 2 Circular Patch Microstrip Antenna Array 3, 5 Ghz For Bts 5g)." *eProceedings of Engineering* 8.2 (2021).
- [10] Kominfo, *Studi Sharing Imt Dan Fss pada pita 3.4-4.2 GHz*. 2018
- [11] GSA, "5G-Oriented Indoor Digitalization Solution White Paper," no. November, 2017
- [12] W. L. Stutzman and W. A. Davis, *Antenna Theory*. 1999

- [13] D. M. Pozar, "Microstrip Antennas," Proc. IEEE, Vol. 80, No. 1, pp. 79–81, January 1992 Wardhana, Lingga. "2G/3G RF Planning and Optimization for Consultant". Penerbit www.nulisbuku.com. Jakarta Selatan. 2011
- [14] D.G. Fang, Antenna Theory and Microstrip, vol. 1. 2010
- [15] A. salim, Rancang Bangun Antena Mikrostrip Biquad Linear Array Dengan Pencatutan Aperture Coupled Untuk Aplikasi BWA, universitas indonesia., 2009
- [16] A. H. R. Fellix Deriko, Fellix Deri "Rancang Bangun Antena Mikrostrip Array Patch Segiempat Dual-Band (2,3GHz dan 3,3 GHz) Dengan Pencatutan Proximity Couple", Uversitas Sumatera Utara., 2013.
- [17] Y. Li, C.-Y.-D. Sim, Y. Luo and G. Yang, "12-Port 5G Massive MIMO Antenna Array in Sub-6GHz Mobile Handset for LTE Bands 42/43/46 Applications," IEEE Access, vol. 6, pp. 344-354, 2018.
- [18] Rio Prakoso Wibowo, "Perancangan dan Pembuatan Antena Susunan dengan  $Beamwidth \leq 5$  pada Frekuensi *S-Band* dengan Menggunakan Elemen *Microstrip Bow-Tie*", Departemen Teknik Elektro Institut Teknologi Sepuluh November Surabaya, 2017
- [19] Rizky A., Koesmarjianto., & Waluyo. "Perancangan Antena MIMO Mikrostrip 4x4 Patch Circular Pada Frekuensi 2.4 GHz Untuk Aplikasi WLAN 802.11n.," pp. Vol. 7, No. 2, Page: 23-24., 2018.
- [20] *Math-Works, Correlation Coefficient, Math-Works*
- [21] C. B. Papadias, Parasitic Antenna Susunans for Wireless MIMO Systems, New York: Springer Science, 2014.
- [22] A. Elmokashf, D. Zhou, and D. Baltrunas, "Adding the next nine: An investigation of mobile broadband networks availability," Proc. Annu. Int. Conf. Mob. Comput. Networking, MOBICOM, vol. Part F131210, pp. 88–100, 2017, doi: 10.1145/3117811.3117842.