

## DAFTAR PUSTAKA

- [1] Rodriguez, Jonathan. "Fundamental of 5G Mobile Networks", Portugal :Insti- tuto de Telecomunicacoes. 2015.
- [2] Yusnita Rahayu, "High Gain 5G MIMO Antenna fo Mobile Base Stasion," in International Journal of Electrical and Computer Engineering (IJECE), vol. 9, no. 1, February, 2019.
- [3] Y. Kishiyama, A. Benjebbour, S. Nagata, Y. Okumura and N. Takehiro, "NTT DOCOMO 5G Activities -Toward 2020 Launch of 5G Services-," NTT DO- COMO Technical Journal, vol. 17, 2016
- [4] R. Tian, Y. Liang, X. Tan and T. Li, "Overlapping User Grouping in IoT Ori- ented Massive MIMO Systems," IEEE Access, vol. 5, pp. 14177-14186, 2017.
- [5] Pradina, Wahyu Ananda Sabilla, Heroe Wijanto, and Trasma Yunita. "Antena Mimo  $4 \times 2$  Susunan 2 Elemen Mikrostrip Patch Rectangular 3, 5 Ghz Untuk Bts 5g (mimo  $4 \times 2$  Of 2 Circular Patch Microstrip Antenna Array 3, 5 Ghz For Bts 5g)."eProceedings of Engineering 8.2 (2021).
- [6] Nashiruddin, Faiz, Trasma Yunita , and Heroe Wijanto. "Simulasi dan Ran- cangan Antena MIMO 4x2 susunan 2 Elemen Mikrostip Patch Persegi untuk BTS Indoor 5G,"
- [7] 5GPPP, "5G Vision," Electron. Publ., p. 16, 2015
- [8] K. K. dan Informatika, "Frekuensi 5G Indonesia." <https://www.kominfo.go.id/>.
- [9] Rodriguez, Jonathan. "Fundamental of 5G Mobile Networks", Portugal :Insti- tuto de Telecomunicacoes. 2015.
- [10] C. B. Papadias, Parasitic Antenna Susunans for Wireless MIMO Systems, New York: Springer Science, 2014.
- [11] D. M. Pozar, "Microstrip Antennas," Proc. IEEE, Vol. 80, No. 1, pp. 79–81, January 1992 Wardhana, Lingga. "2G/3G RF Planning and Optimization form Consultant". Penerbit www.nulisbuku.com. Jakarta Selatan. 2011.
- [12] Balanis, Constantine A. 2005."Antenna Theory Analysis and Design 3rd edi- tion". USA : Wiliey InterScience.

- [13] W. L. Stutzman and W. A. Davis, *Antenna Theory*. 1999
- [14] M. Ramesh and K. B. Yip, *Desing Inset Fed Microstrip Patch Antennas, Microwaves and RF*, 2003.
- [15] N. M. Thaker and V. Ramamoorthy, "A Review on Circular Microstrip Patch Antenna with Slots for C Band Applications," *International Journal of Scientific and Engineering Research*, vol. 5, no. 12, pp. 1039-1043, December 2014.
- [16] D. M. Pozar, "Microstrip Antennas," *Proc. IEEE*, Vol. 80, No. 1, pp. 79–81, January 1992 Wardhana, Lingga. "2G/3G RF Planning and Optimization form Consultant". Penerbit [www.nulisbuku.com](http://www.nulisbuku.com). Jakarta Selatan. 2011
- [17] D.G. Fang, *Antenna Theory and Microstrip*, vol. 1. 2010
- [18] A. salim, *Rancang Bangun Antena Mkrostrip Biquad Liniear Array Dengan Pencatuan Apperture Coupled Untuk Aplikasi BWA*, universitas indonesia., 2009
- [19] A. H. R. Fellix Deriko, Fellix Deri "Rancang Bangun Antena Mikrostrip Array Patch Segiempat Dual-Band (2,3GHz dan 3,3 GHz) Dengan Pencatuan Proximity Couple", *Uversitas Sumatera Utara.*, 2013.
- [20] 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.
- [21] A. Salim, *Rancang Bangun Antena Mkrostrip Biquad Liniear Array Dengan Pencatuan Apperture Coupled Untuk Aplikasi BWA*, universitas indonesia., 2009.
- [22] Qadar , Moch. "Analisis Pengaruh Perubahan Kemiringan Sudut Pancar Antena Sektoral Terhadap Kualitas Layanan Jaringan Sistem Komunikasi Bergerak Seluler", *Prodi Teknik Elektro Universitas Tanjungpura Pontianak*. 2014