

DAFTAR PUSTAKA

- [1] B. Halvarson, E. Karam, M. Nystrom, R. Pirinen, A. Simonsson, Q. Zhang and P. Okvist, "Distributed MIMO demonstrated with 5G radio access prototype," in *IEEE Networks and Communications (EuCNC)*, Greece, June 2016.
- [2] D. Kurita, K. Tateishi, A. Harada and et al, "Indoor and Outdoor Experiments on 5G Radio Access Using Distributed MIMO and Beamforming in 15 GHz Frequency Band," in *IEEE Globecom Workshops (GC Wkshps)*, Washington DC, Feb 2017.
- [3] P. Okvist, H. Asplund, A. Simonsson, B. Halvarson, J. Medbo and N. Seifi, "15 GHz Propagation Properties Assessed With 5G Radio Access Prototype," in *IEEE 26th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, China, Sept 2015.
- [4] K. Tateishi, D. Kurita, A. Harada, Y. Kishiyama, S. Itoh, H. Murai and et al, "Experimental evaluation on 5G radio access employing multi-user MIMO at 15 GHz band," in *14th IEEE Annual Consumer Communications & Networking Conference (CCNC)*, Las Vegas, July 2017.
- [5] Y. Suzuki, K. Satoh, H. Okazaki, S. Narahashi and et all, "Experimental investigation on 15 GHz band integrated front-end module including antenna and filter for 5G mobile communications systems," *IEEE MTT-S International Conference on Microwaves for Intelligent Mobility (ICMIM)*, pp. 61-63, March 2017.
- [6] K. Hiltunen, A. Simonsson, P. Okvist and B. Halvarson, "5G trial system coverage evaluation utilizing multi-point transmission in 15 GHz frequency band," in *IEEE Networks and Communications (EuCNC)*, Finland, June 2017.
- [7] K. J. Sinaga, Perancangan dan Realisasi Antena MIMO 4x4 Array Rectangular Patch Dengan U-Slot Untuk Aplikasi 15 GHz, Bandung: Telkom University, 2017.
- [8] C. A. Balanis, Antena Theory Analysis and Design 3rd Edition, Wiley: New Jersey, 1997.
- [9] T. F. A. Nayna, A. K. M. Baki and F. Ahmed, "Comparative study of rectangular and circular microstrip patch antennas in X band," in *International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT)*, Dhaka, 2014.
- [10] M. M. Khan, A. M. Alam and R. H. Ashique, "A Comparative Study of Rectangular and Circular Microstrip Fed Patch Antenna at 2.45 GHz," *International Journal of Scientific and Engineering Research*, vol. 5, no. 10, pp. 1028-1032, Okt 2014.
- [11] S. U. Rahman, Q. Cao, I. Hussain, H. Khalil and et al, "Design of Rectangular Patch Antenna Array for 5G Wireless Communication," in *Progress In Electromagnetics Research Symposium — Spring (PIERS)*, St Petersburg, May 2017.

- [12] N. M. Thaker and V. Ramamoorthy, "A Review on Circular Microstrip Patch Antenna with Slots for C Band Applications," *International Journal of Scientific & Engineering Research*, vol. 5, no. 12, pp. 1039-1043, December 2014.
- [13] L. L. K. Singh, B. Gupta and P. P. Sarkar, "T-slot Broadband Rectangular Patch Antenna," *International Journal of Electronic and Electrical Engineering*, vol. IV, no. 1, pp. 43-47, 2011.
- [14] R. Mishra, N. Muchhal and R. S. Mishra, "Multiple T slot compact & ultra wide band Microstrip patch antenna for Wimax Applications," in *IEEE Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, Bhopal, India, April 2014.
- [15] P. Marsch, "5G Radio Access Network Architecture: Design Guidelines and Key Considerations," *IEEE Communications Magazine*, vol. I, no. 1, pp. 24-32, 2016.
- [16] A. S. Ruswanditya, Antena Mikrostrip Array 2 Patch Rektangular Bercelah-H Untuk Mimo 8x8 Pada Akses Radio 5G 15 Ghz, Bandung: Universitas Telkom, 2017.
- [17] Rochde and Schwarz, "Introduction to MIMO," Rohde & Schwarz GmbH & Co.KG, Munchen, 2009.
- [18] M. Arsyad, Desain Dan Analisis Efek Slotted-Patch Pada Antena Mikrostrip Mimo 4x4 Dan 8x8 Untuk Meningkatkan Bandwidth Pada Frekuensi Kerja 28 GHz, Bandung: Universitas Telkom, 2017.
- [19] M. Ramesh and K. B. Yip, *Desing Inset Fed Microstrip Patch Antennas*, Microwaves and RF, 2003.
- [20] S. R. Avenue, "RT/duroid® 5870 /5880," Rogers Corp, 2016, pp. 100-101.