

## DAFTAR PUSTAKA

- [1] Tateishi, Kiichi et al, "Field Field Experiments on 5G Radio Access Using 15-GHz Band in Outdoor Small Cell Environment", IEEE PIMRC, vol. 26, hal 851-855, 2015.
- [2] Cheng, Wei-Chung, et al, "15GHz Propagation Channel Measurement at a University Campus for the 5G Spectrum", Microwave Conference (APMIC), Dec. 2015.
- [3] Raffely, J. "Perancangan dan Realisasi Antena Mikrostrip MIMO Bowtie 4x4 Pada Frekuensi 1.8 GHz Untuk Aplikasi LTE". Universitas Telkom, Bandung. 2016.
- [4] Sani Yahya, Muhammad dan S.K.A Rahim, "15GHz Grid Array Antenna For 5G Mobile Communications Systems", Microwave And Optical Technology Letters vol. 57, no. 12, hal 2977-2980, Dec. 2016.
- [5] P. Daud, I. Syamsu, D. Mahmudin, T.T. Estu, A.A. Fathnan, Y.N. Wijayanto, "Inset Fed U-Slotted Patch Antenna Array for 10 GHz Radio-Over-Fiber Applications", IEEE-ICSE2016, hal. 117 – 120, 2016.
- [6] Kielb, John A. et al. *Application of A 15 GHz FMCW Radar For Industrial Control And Process Level Measurement*. 1999. Rosemount Inc, USA.
- [7] Ökvist, Peter et al. *15GHz Propagation Properties Assessed with 5G Radio Access Prototype*. Ericsson Research, 2015.
- [8] C. a. Balanis, "Antenna Theory: Analysis and Design", 3rd ed. Arizona: A JOHN WILEY & SONS, INC, 2012.
- [9] Pozar, M. David. 2005. *Microwave Engineering 3rd Edition*. Wiley, New York.
- [10] Kurowa, K. "Power Wave and Scattering Matrix". IEEE Transactions on Microwave Theory and Techniques vol. 13, hal 194-202, Jan. 2013.
- [11] J.R James and P.S Hall. 1989. *Handbook of Microstrip Antennas*. London: United Kingdom.
- [12] Daud, Pamungkas et al. *1x2 Array of U-Slotted Rectangular Patch Antennas for High Speed LTE Mobile Networks*. 2010. LIPI, Bandung.
- [13] M. Ramesh dan K.B. Yip. *Desing Inset Fed Microstrip Patch Antennas*. 2003. Microwaves and RF.

- [14] Ezio Biglieri, Robert Calderbank, Anthony Constantinides, Andrea Goldsmith, Arogyaswami Paulraj, dan H. Vincent Poor. *MIMO Wireless Communications*. 2005. Cambridge.
- [15] Kevin Sinaga, Levy Olivia, dan Budi Syihabuddin. *Perancangan Antena Array 1×2 Rectangular Patch dengan U-Slot Untuk Aplikasi 5G*. SENIATI, 2016.
- [16] Kevin Sinaga, Levy Olivia, dan Budi Syihabuddin. *Perancangan Antena MIMO 2×2 Array Rectangular Patch dengan U-Slot Untuk Aplikasi 5G*. JNTETI, 2016.