

## DAFTAR PUSTAKA

- [1] Roh, Wonil, et al. "Millimeter-wave beamforming as an enabling technology for 5G cellular communications: theoretical feasibility and prototype results." *IEEE Communications Magazine* 52.2 (2014): 106-113.
- [2] Ma, Zheng, et al. "Key techniques for 5G wireless communications: network architecture, physical layer, and MAC layer perspectives." *Science China Information Sciences* 58.4 (2015): 1-20.
- [3] Ramlond Anggito "Analisis dan Simulasi Esitimasi Sudut Kedatangan Menggunakan Algoritma Estimation of Signal Parametr via Rotational Invariance Techniques (ESPRIT) pada Wireless Mobile Communication", IT Telkom, Bandung, 2009.
- [4] Adi Saputra, " Analisis Performansi Sistem MIMO OFDM dengan Teknik Beamforming pada Pergerakan User", IT Telkom, Bandung, 2010.
- [5] Michael Marcus and Bruno Pattan "Millimeter Wave *Propagation: Spectrum Management Implications*", IEEE Microwave Magazine, June, 2005.
- [6] Desai, Vip, et al. "Initial beamforming for mmwave communications." *2014 48th Asilomar Conference on Signals, Systems and Computers*. IEEE, 2014.
- [7] Kwon, Girim, et al. "Design of millimeter wave *hybrid beamforming* systems." *2014 IEEE 80th Vehicular Technology Conference (VTC2014-Fall)*. IEEE, 2014.
- [8] Putra, I.G.N Putu Suardiaka. "Analisis Kinerja Smart Antenna Menggunakan Algoritma LMS dan RLS pada WIMAX IEEE 802.16", IT Telkom, Bandung,
- [9] Chen, Zhizhang, Gopal Gokeda, and Yiqiang Yu. *Introduction to Direction-of-arrival Estimation*. Artech House, 2010.
- [10] <http://www.onmyphd.com/?p=eigen.decomposition> hari kamis 1 desember 2016.

- [11] MOQBEL, Mohammed, et al. "MIMO Channel Estimation Using LS and MMSE Algorithm" IOSR Journal of Electrical and communication Engineering (IOSR JECE), 2017.
- [12] Koredianto Usman dan Andriyan Bayu Sukmono "*Compressive Sensing untuk Direction of Arrival Estimation*", ITB, Bandung.
- [13] De Donno, Danilo, et al. "Hybrid analog-digital beam training for mmWave systems with low-resolution RF phase shifters." *Communications Workshops (ICC), 2016 IEEE International Conference on*. IEEE, 2016.
- [14] Roy, Richard, A. Paulraj, and Thomas Kailath. "Estimation of signal parameters via rotational invariance techniques-esprit." *Military Communications Conference-Communications-Computers: Teamed for the 90's, 1986. MILCOM 1986. IEEE*. Vol. 3. IEEE, 1986.
- [15] Torras, Jordi Ferrer. *New Hybrid Automatic Repeat Request (HARQ) Scheme for 4x4 MIMO System, Based on the Extended Alamouti Quasi-orthogonal Space-time Bloc Coding (Q-STBC), in Invariant and Variant Fading Channel*. Diss. New Jersey Institute of Technology, Department of Electrical and Computer Engineering, 2006.