

DAFTAR PUSTAKA

- [1] Uke K U., Galuh P., Denny K.H dan Sigit D.P. 2012. *Fundamental Teknologi Seluler LTE*. Bandung : Penerbit Rekayasa Sains.
- [2] Notis Dimitris T., Phaedra C., Dimitris P. *Dual Polarized Microstrip Patch Antenna, Reduced in Size by Use of Peripheral Splits*. Aristotle University of Thessaloniki. Department of Electrical & Computer Engineering. Yunani.
- [3] Li Ronglin, Gerald D., Manos M. T. Joy L. 2004. *Development and Analysis of a Folded Shorted-Patch Antenna With Reduced Sized*. IEEE Transactions on Antennas and Propagation, Vol. 52, No. 2.
- [4] Lai. A, Leong. K, and Itoh.T. 2007. *Infinite Wavelength Resonant Antenna with monopolar radiation Pattern Based on Periodic Structure*. IEEE Trans Vol. 55, No. 3. Maret.
- [5] Prashant R.T, Vani R. M, and Hunagund P.V. 2014. *Design of Microstrip Patch Antenna Using Complementary Split Ring Resonator Loaded Ground Plane for Size Reduction*.IJAREIE Vol. 3, Issue 3, March 2014
- [6] Aparna U. Limaye, and Jayanti Venkataraman. 2006. *Size Reduction in Microstrip Antennas using Left-Handed Materials Realized by Complementary Split-Ring Resonators in Ground Plane*. Master Thesis, Department of Electrical Engineering, Kate Gleason College of Engineering (KGCOE), Rochester Institute of Technology, New York
- [7] A.C. Balanis. 2005. *Antenna Theory : Analysis Design Third Edition*. John Willey & Sons. Inc.
- [8] J.R. James and P.S.Hall. 1989. *Handbook of Microstrip Antennas*. London:United Kindom.
- [9] R. Garg, B. Prakash, and I. Bahl, A.Ittipiboon. 2001.. *Microstrip Antenna Design Handbook*. London: Artech House.
- [10] G.Kumar and K.P. Ray. 2003.. *Broadband Microstrip Antennas*. London: Artech House.
- [11] Pozar, David M.. *Microwave Engineering*.John Willey and Sons, 1997.
- [12] Molisch, A dan Win, M. 2004. *MIMO Systems with Antenna Selection – An Overview*. Cambridge : Mitsubishi Electric Research Laboratory.

- [13] Ali Imran Najam, Yvan Duroc and Smail Tedjini . 2012. *Multiple-Input Multiple-Output Antennas for Ultra Wideband Communications*, Ultra Wideband .InTech,.
- [14] J. D. Baena, J. Bonache, F. Martin, R. Marques, F. Falcone, T. Lopetegi, M. A. G. Laso, J. Garcia, I. Gil, and M. Sorolla. 2005. *Equivalent-circuit models for split-ring resonators and complementary split-ring resonators coupled to planar transmission lines*. IEEE Trans. Microw. Theory Tech., vol. 53, no. 4.
- [15] Rumney, Moray. 2013..*LTE and the Evolution to 4G Wireless : Design and Measurement Challenge second edition*.John Willey & Sons. Inc.
- [16] 3rd Generation Partnership Project. 3rd generation project . 2009. *technical spesification group radio acces network; Evolved Universal Terrestrial Radio Acces (E-Utra); Radio Frequency (RF) system scenarios; (Release 8)*. Valbonne : 3GPP.
- [17] Caloz, Christophe and Tatsuo Itoh. 2006..*Electromagnetic Metamaterials: Transmission Line Theory and Microwave Applications*. John Wiley & Sons, Inc.
- [18] V. G. Veselago. 1968.. “*The electrodynamics of media with simultaneously negative values of permittivity and magnetic permeability*,” Sov. Phys.\—Usp., vol. 47, pp. 509-514, Jan.–Feb. 1968.
- [19] Pendry, J. B., et al. 1996. “*Extremely Low Frequency Plasmons in Metallic Microstructures*”. Phys. Rev. Lett. 76 4773-6 (1996).
- [20] Smith, D. R., et al. 2000 *Composite Medium with Simultaneously Negative Permeability and Permittivity*. Physical Review E.84, Number 18.
- [21] Chen, Xudong, et al. 2004. *Robust method to retrieve the constitutive effective parameters of metamaterials*. Physical Review E 70. The American Physical Society.
- [22] Jigar M. Patel, Shobhit K. Patel and Falgun N. Thakkar. 2013 . “*Defected Ground Structure Multiband Microstrip Patch Antenna using Complementary Split Ring Resonator*”.IJETEE.Vol. 3,
- [23] Arif Harfianto , Mohammad. 2013 .“ *Realisasi antena patch pita ganda 1,575 GHz dan 2,45 GHz menggunakan struktur metamaterial* ”. Bandung.Universitas Telkom.