

## DAFTAR PUSTAKA

- [1] M. Cedric, Modelling and Design of Antennas for Ground-Penetrating Radar Systems, University of Surrey, 2002, p.29
- [2] Geophysical Survey Systems Inc. (GSSI), GSSI's Position on the Revision of Part 15 in FCC Rules Regarding Ultra-Wideband Transmission Systems, 2002
- [3] Geophysical Survey Systems Inc. (GSSI), Product catalogue antennas brochure, [www.geophysical.com](http://www.geophysical.com)
- [4] Craig Warren, Antonios Giannopoulos, Investigation of The Directivity of a Commercial Ground-Penetrating Radar Antenna Using a Finite Difference Time-Domain Antenna Model, School of Engineering, The University of Edinburgh, UK, 2012
- [5] SIR System-3000 Manual, Geophysical Survey Sytems, Inc., December 2009.
- [6] FCC 2002 nret 0203  
[\[https://transition.fcc.gov/Bureaus/Engineering\\_Technology/News\\_Releases/2002/nret203.html\]](https://transition.fcc.gov/Bureaus/Engineering_Technology/News_Releases/2002/nret203.html)
- [7] O. Folin, Sulistyarningsih, N. W. Yusuf, Sistem Ground Penetrating Radar untuk Mendeteksi Benda-benda di Bawah Permukaan Tanah, P2 Elektronika dan Telekomunikasi-LIPI.
- [8] X. Xianiel, X. Tian, V. Anbu, and H. Dryver, Development of High-Speed Ultrawideband Ground-Penetrating Radar for Rebar Detection, Journal of Engineering Mechanics, March 2013. 139:272-285.

- [9] Lal Chand Godara, Handbook of Antennas in Wireless Communications, CRC Press, Washington DC, 2002.
- [10] R. Garg, P. Bhartia, I. Bahl, dan A. Ittipiboon, Microstrip Antenna Design Handbook, Artech House Inc., Norwich, 2001.
- [11] Girish Kumar dan K.P. Ray, Broadband Microstrip Antennas, Artech House, Inc, 2003.
- [12] AWR Microwave Office 2002 version 5.53  
[www.awrcorp.com/awr-support/system-requirements](http://www.awrcorp.com/awr-support/system-requirements)
- [13] Azodi Hossein, UWB Air-Coupled Antenna for Ground Penetrating Radar, Delft University of Technology, 2010, p.13
- [14] Y. Tao, S. Kan, G. Wang, Ultra-wideband bow-tie antenna design, Proceedings IEEE International Conference on Ultra-Wideband (ICUWB2010), Nanjing, China, 2010, p.1
- [15] A.A. Eldek, A.Z. Elsherbeni, C.E. Smith, IEEE Topical Conference on Wireless Communication Technology, Honolulu, Hawaii, 2003.
- [16] Gary Breed, "A Summary of FCC Rules for Ultra Wideband Communications", High Frequency Electronics, Summit Technical Media, 2005.  
[\[http://highrequelec.summittechmedia.com/Archives/Jan05/HFE0105\\_Tutorial.pdf\]](http://highrequelec.summittechmedia.com/Archives/Jan05/HFE0105_Tutorial.pdf)
- [17] M.H. Jamaluddin, M.K. A. Rahim M. Z. A. Abd. Aziz, A. Asrokin, Microstrip Dipole Antenna For WLAN Application,