

## BIBLIOGRAPHY

- [1] D. J. Daniels, Ed., Ground Penetrating Radar 2nd Edition, 2nd ed. London, United Kingdom: The Institution of Electrical Engineers, 2004.
- [2] Edward M. Barnes, et al, "Remote- and Ground-Based Sensor Techniques to Map Soil Properties," *Photogrammetric Engineering and Remote Sensing Journal*, Vol. 69, No. 6, June 2003.
- [3] A.P. Annan, *Ground Penetrating Radar Principles, Procedures and Applications*, Mississauga, Canada : Sensors and Software Inc., 2003.
- [4] Ozdemir, B. Yilmaz, S. I. Keceli, H. Lezki and O. Sutcuoglu, "UltraWide Band horn antenna design for Ground Penetrating Radar: A feeder practice," 15th Int. Radar Symposium (IRS), Gdansk, pp. 1-4, 2014.
- [5] Kunihiko Yoshino, Khishigsuren Nyamsambuu, Yudi Setiawan and Abeer Elwan, "Detecting Soil Characteristics in Arid Land by Using Landsat ETM+: Case Study of Beni-Swif, Egypt," *Journal of Arid Land Studies*, No.22-1,2014.
- [6] Francois Jonard et al, "Mapping Field Soil Moisture With L-Band Radiometer and Ground Penetrating Radar Over Bare Soil," *IEEE Transaction on Geoscience and Remote Sensing*, Vol.53, 2015.
- [7] Nicolas Baghdadi et al, "Estimating Surface Soil Moisture from TerraSAR-X Data over Two Small Catchments in the Sahelian Part of Western Niger," *Remote Sensing*. 2011
- [8] A.A. Pramudita, A. Kurniawan, A.B. Suksmono, and A.A. Lestari. Effect of antenna dimensions on the antenna footprint in ground penetrating radar applications. *IET Microwaves, Antennas and Propagation*, pages 127–1278, 2009.
- [9] J. A. Huisman, S. S. Hubbard, J. D. Redman, and A. P. Annan. Measuring soil water content with ground penetrating radar: A review. *Vadose Zone Journal*, 2003.
- [10] G. Serbin. Ground-penetrating radar measurement of soil water content dynamics using a suspended horn antenna. *IEEE Transaction on Geoscience and Remote Sensing*, 42, 2004.

- [11] A. Ahmed, Y. Zhang, D. Burns, D. Huston and T. Xia, "Design of UWB Antenna for Air-Coupled Impulse Ground-Penetrating Radar," IEEE Geoscience and Remote Sensing Letters, 2016.
- [12] R.Persico, Introduction to Ground Penetrating Radar Inverse Scattering and Data Processing. Canada: John Wiley, 2014.
- [13] J.P Raymond, Post-Processing of Soil Water Content Information for Ground Penetrating Radar, Bachelor thesis , Telkom University, 2018