

DAFTAR PUSTAKA

- [1] W. L. Melvin and J. A. Scheer, *Principles of modern radar: Vol. III: Radar applications*. SciTech, 2014.
- [2] M. A. Richards, J. A. Scheer, and W. A. Holm, *Principles of Modern Radar. Vol I: Basic Principles*, vol. 53, no. 9. SciTech, 2010.
- [3] C. A. Balanis, “Antenna Theory: Analysis and Design,” vol. 66, pp. 37–39, 2016.
- [4] H. J. A. Giselle M. Galvan-Tejada, Marco Antonio Peyrot-Solis, *Ultra Wideband Antennas :Design, Methodologies, and Performance*. 2016.
- [5] L. Zhou, D. Yu, Z. Wang, and X. Wang, “Soil Water Content Estimation Using High-Frequency Ground Penetrating Radar,” pp. 1–16, 2019.
- [6] X. Liu, J. Chen, X. Cui, Q. Liu, X. Cao, and X. Chen, “Measurement of soil water content using ground-penetrating radar: a review of current methods,” *Int. J. Digit. Earth*, vol. 12, no. 1, pp. 95–118, 2019, doi: 10.1080/17538947.2017.1412520.
- [7] H. K. Indranada, *Pengelolaan Kesuburan Tanah*. Jakarta: Bumi Aksara, 1994.
- [8] M. . Carter and E. G. Gregorich, *Soil Sampling and Methos of Analysis Second Edition*. Taylor & Francis, 2007.
- [9] V. Novák and H. Hlaváčiková, “Soil-water content and its measurement,” *Theory Appl. Transp. Porous Media*, vol. 32, pp. 49–61, 2019, doi: 10.1007/978-3-030-01806-1_5.
- [10] H. Nikookar and R. P, *Introduction to Ultra Wideband for Wireless Communications*. 2009.
- [11] A. A. Pramudita and L. Sari, “Extraction model of Soil Water Content Information based on Least Square Method for GPR,” *2016 Int. Symp. Intell. Signal Process. Commun. Syst. ISPACS 2016*, pp. 0–4, 2017, doi: 10.1109/ISPACS.2016.7824717.
- [12] J. A. Huisman, S. S. Hubbard, J. D. Redman, and A. P. Annan, “Measuring Soil Water Content with Ground Penetrating Radar: A Review,” *Vadose Zo. J.*, vol. 2, no. 4, p. 476, 2003, doi: 10.2136/vzj2003.0476.
- [13] W. L. Stutzman and G. A. Thiele, *Antenna Theory and Design*, 3rd ed., vol. 7, no. 2. 2013.
- [14] T. Yin, Y. Wang, and M. Zhao, “A design of modified Vivaldi antenna,” no. Icamcs, pp. 714–720, 2016, doi: 10.2991/icamcs-16.2016.145.
- [15] Y. Erdogan, “Parametric Study and Design of Vivaldi Antennas and

- Arrays,” no. March, 2009.
- [16] John D. Kraus, *ANTENNAS*, no. July. India: Tata McGraw-Hill, 1988.
 - [17] A. Munir, R. B. V. B. Simorangkir, and F. Kurniawan, “Late-time ringing characterization of cavity-backed UWB printed monopole antenna,” *2017 IEEE Conf. Antenna Meas. Appl. CAMA 2017*, pp. 419–422, 2017, doi: 10.1109/CAMA.2017.8273470.
 - [18] H. M. Jol, *Ground Penetrating Radar (GPR) Theory and application*, vol. 300, no. 07. 2007.
 - [19] X. Liu, X. Dong, and D. I. Leskovar, “Ground penetrating radar for underground sensing in agriculture: A review,” *Int. Agrophysics*, vol. 30, no. 4, pp. 533–543, 2016, doi: 10.1515/intag-2016-0010.
 - [20] S. Maalik, “Antenna Design for UWB Radar Detection Application,” *Antenna*, 2010.