

References

- [1] Schmugge, T. J., T. J. Jackson, and H. L. McKim. "Survey of methods for soil moisture determination." *Water Resources Research* 16.6 (1980): 961-979.
- [2] Evett, S. R., et al. "Accuracy and precision of soil water measurements by neutron, capacitance, and TDR methods." *Proceedings of the 17th Water Conservation Soil Society Symposium, Thailand*. 2002.
- [3] Sørensen, L. K., and S. Dalsgaard. "Determination of clay and other soil properties by near infrared spectroscopy." *Soil Science Society of America Journal* 69.1 (2005): 159-167.
- [4] Chang, Cheng-Wen, et al. "Near-infrared reflectance spectroscopy–principal components regression analyses of soil properties." *Soil Science Society of America Journal* 65.2 (2001): 480-490.
- [5] Rodionov, Andrei, et al. "Sensing of soil organic carbon using visible and near-infrared spectroscopy at variable moisture and surface roughness." *Soil Science Society of America Journal* 78.3 (2014): 949-957.
- [6] Slaughter, D. C., et al. "Sensing Soil Moisture Using NIR Spectroscopy." *Applied Engineering in Agriculture* 17.2 (2001): 241-247.
- [7] Raether, Heinz. "Surface plasmons on smooth surfaces." *Surface plasmons on smooth and rough surfaces and on gratings*. Springer Berlin Heidelberg, 1988. 4-39.
- [8] Homola, Jiří. "Surface plasmon resonance sensors for detection of chemical and biological species." *Chemical reviews* 108.2 (2008): 462-493.
- [9] Shibayama, Jun, et al. "Surface plasmon resonance waveguide sensor in the terahertz regime." *Journal of Lightwave Technology* 34.10 (2016): 2518-2525.
- [10] Ikehata, Akifumi, Tamitake Itoh, and Yukihiro Ozaki. "Surface plasmon resonance near-infrared spectroscopy." *Analytical chemistry* 76.21 (2004): 6461-6469.
- [11] Ikehata, Akifumi, et al. "High sensitive detection of near-infrared absorption by surface plasmon resonance." *Applied physics letters* 83.11 (2003): 2232-2234.
- [12] Casanova, Joaquin J., Robert C. Schwartz, and Steven R. Evett. "Design and field tests of a directly coupled waveguide-on-access-tube soil water sensor." *Applied Engineering in Agriculture* 30.1 (2014): 105-112.
- [13] Matsui, Hiroaki, et al. "Oxide Surface Plasmon Resonance for a New Sensing Platform in the Near-Infrared Range." *Advanced Optical Materials* 1.5 (2013): 397-403.

[14] Yoon, Y-K., J-H. Park, and Mark G. Allen. "Multidirectional UV lithography for complex 3-D MEMS structures." *Journal of Microelectromechanical Systems* 15.5 (2006): 1121-1130.