Special Issue

Smart TDR Sensors for Moisture Measurement

Message from the Guest Editors

Time Domain Reflectometry (TDR) plays a significant role among the techniques of moisture detection in porous media. It is an electric technique applied for determining the apparent permittivity of porous materials by the measurement of electromagnetic pulse propagation time along the metal rods of measuring probes. For many years, it has been widely applied by scientists and engineers to measure moisture of soil but also to evaluate parameters of other porous media such as rocks or building materials. The TDR method is continuously developing. New devices are being designed, techniques of signal processing are improved, probes constructions are modified and new formulas of calibration are estimated. This Special Issue is addressed to all researchers that develop the TDR sensing technique of moisture detection.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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