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Advanced Ground-Penetrating Radar (GPR) Technologies and Applications

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Ground-Penetrating Radar (GPR) is a highly efficient shallow geophysical exploration technique that employs electromagnetic waves to map subsurface structures. Based on the contrasting electrical parameters of underground media, it analyzes and infers the structural and physical properties of subsurface materials by examining kinematic and dynamic characteristics of reflected signals, including amplitude, waveform and frequency. Relative to alternative geophysical approaches, GPR offers rapid and convenient deployment, straightforward operation, high detection resolution and non-destructive testing capabilities. It is widely applied for the fine characterization of underground structures and the detection and identification of buried targets, spanning diverse scenarios such as geological surveys, planetary exploration, archaeology, civil engineering, agriculture, environmental monitoring and security screening.

This Special Issue Reprint compiles cutting-edge research contributions to advance the innovation and expanded application of GPR technologies within the remote sensing discipline.

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