



Ground Penetrating Radar in Sediments (Geological Society Special Publication) (No. 211)

C. S. Bristow

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Ground penetrating radar (GPR) is transforming the way earth scientists and engineers describe and interpret near-surface sedimentary environments in the field. Because of recent advances in equipment, GPR now provides continuous, high-resolution data that other geophysical investigative tools cannot achieve. GPR has proven useful in a wide array of environmental, geological, and engineering applications. Included in this book are practical guidelines for data collection and interpretation, from antennae configurations to sequence stratigraphy, together with new advances such as vertical radar profiles and 3-D GPR imaging for hydrocarbon reservoir modeling, designed to assist new and veteran users to get the most from GPR. Case studies in this book detail GPR investigations in a wide array of sedimentary environments including alluvial fans, braided rivers, spits, beaches, sand dunes, lakes, bogs, and floodplains. Examples of GPR investigation applied to stratigraphic correlation problems in Holocene, Pleistocene, and ancient sediments; hydrocarbon reservoir modeling; and detection and mapping of contaminants, reservoir infilling, land mines, and fault displacements are included.

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