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Sommario/riassunto

This book offers an in-depth exploration of Ground Penetrating Radar (GPR) technology, covering theoretical foundations, computational signal processing, antenna design, and field applications. It serves as a comprehensive guide for understanding the inverse scattering problems associated with GPR, discussing both qualitative and quantitative methods for data imaging and analysis. The work is intended for professionals and researchers in the fields of engineering and geosciences, aiming to enhance the practical deployment of GPR in various applications such as subsurface imaging and cultural heritage preservation. Through contributions from multiple experts, the book also addresses advanced topics like nonlinear inversion techniques and sensor deployment strategies, providing valuable insights for the development of more effective GPR systems.