



# Subsurface Imaging Using Ground Penetrating Radar Measurements

**Qingxi Tong, Yaoting Zhu, Zhenfu Zhu**



## **Subsurface Imaging Using Ground Penetrating Radar Measurements:**

**Guidelines for Surveying Soil and Land Resources** NJ McKenzie, MJ Grundy, R Webster, AJ Ringrose-Voase, 2008-04-07

Guidelines for Surveying Soil and Land Resources promotes the development and implementation of consistent methods and standards for conducting soil and land resource surveys in Australia. These surveys are primarily field operations that aim to identify, describe, map, and evaluate the various kinds of soil or land resources in specific areas. The advent of geographic information systems, global positioning systems, airborne gamma radiometric remote sensing, digital terrain analysis, simulation, modelling, efficient statistical analysis, and internet-based delivery of information has dramatically changed the scene in the past two decades. As successor to the Australian Soil and Land Survey Handbook, Guidelines for Conducting Surveys, this authoritative guide incorporates these new methods and techniques for supporting natural resource management. Soil and land resource surveyors, engineering and environmental consultants, commissioners of surveys, and funding agencies will benefit from the practical information provided on how best to use the new technologies that have been developed, as will professionals in the spatial sciences such as geomorphology, ecology, and hydrology. **Civil Engineering**

**Applications of Ground Penetrating Radar** Andrea Benedetto, Lara Pajewski, 2015-04-07. This book, based on Transport and Urban Development COST Action TU1208, presents the most advanced applications of ground penetrating radar (GPR) in a civil engineering context, with documentation of instrumentation methods and results. It explains clearly how GPR can be employed for the surveying of critical transport infrastructure such as roads, pavements, bridges, and tunnels, and for the sensing and mapping of underground utilities and voids. Detailed attention is also devoted to the use of GPR in the inspection of geological structures and of construction materials and structures, including reinforced concrete, steel reinforcing bars, and pre-stressed stressing ducts. Advanced methods for solution of electromagnetic scattering problems and new data processing techniques are also presented. Readers will come to appreciate that GPR is a safe, advanced, non-destructive, and non-invasive imaging technique that can be effectively used for the inspection of composite structures and the performance of diagnostics relevant to the entire life cycle of civil engineering works. **Use of Surface and Borehole Ground**

**Penetrating Radar in Geologic and Engineering Investigations of Transportation Projects** Georgios P. Tsofilas, 2010. This project investigates the use of ground penetrating radar (GPR) subsurface imaging in transportation projects. Knowledge of shallow subsurface geologic conditions is critical to planning, constructing, and maintaining transportation infrastructure such as roads, bridges, tunnels, and railroads. Transportation projects rely heavily on drilled boreholes for characterization of subsurface geology. A borehole provides accurate information at a single location; one-dimensional and several test borings are commonly required in order to determine the lateral extent of features of interest. Near-surface geophysical methods offer the capability to complement test borings by providing two- and three-dimensional images of the subsurface away and between boreholes. Such capability can be valuable in mapping features of limited lateral extent such as discontinuous strata.

faults and fracture zones boulder fields and voids Ground penetrating radar GPR is a non invasive non destructive high frequency electromagnetic method that provides high resolution imaging of electrically resistive environments GPR can be deployed on the surface and in boreholes and it can provide observations in two dimensions cross sections and three dimensions volumes GPR data used in conjunction with corehole data offer the capability to accurately map subsurface features of interest GPR imaging of the subsurface can complement and enhance the subsurface information provided by test borings Furthermore GPR can potentially reduce the number of borings required in a transportation project The objective of the project was to evaluate the utility of GPR technology in addressing Kansas transportation geologic and engineering questions Three GPR studies completed during the course of this project were GPR Imaging of Bedrock along the Kansas River at Highway K 18 near Manhattan Kansas GPR Imaging of the Ogallala Formation at Highway US 50 Near Cimarron Kansas Borehole GPR Detection of Subsurface Voids at Kansas Highway 69 Pittsburg Bypass Predictions in Ungauged Basins Murugesu Sivapalan,2006 Compressive Sensing for Urban Radar Moeness Amin,2017-12-19 With the emergence of compressive sensing and sparse signal reconstruction approaches to urban radar have shifted toward relaxed constraints on signal sampling schemes in time and space and to effectively address logistic difficulties in data acquisition Traditionally these challenges have hindered high resolution imaging by restricting both bandwidth and aperture and by imposing uniformity and bounds on sampling rates Compressive Sensing for Urban Radar is the first book to focus on a hybrid of two key areas compressive sensing and urban sensing It explains how reliable imaging tracking and localization of indoor targets can be achieved using compressed observations that amount to a tiny percentage of the entire data volume Capturing the latest and most important advances in the field this state of the art text Covers both ground based and airborne synthetic aperture radar SAR and uses different signal waveforms Demonstrates successful applications of compressive sensing for target detection and revealing building interiors Describes problems facing urban radar and highlights sparse reconstruction techniques applicable to urban environments Deals with both stationary and moving indoor targets in the presence of wall clutter and multipath exploitation Provides numerous supporting examples using real data and computational electromagnetic modeling Featuring 13 chapters written by leading researchers and experts Compressive Sensing for Urban Radar is a useful and authoritative reference for radar engineers and defense contractors as well as a seminal work for graduate students and academia **Near-surface Geophysics** Dwain K. Butler,2005 Near Surface Geophysics SEG Investigations in Geophysics Series No 13 presents concepts and fundamentals of near surface geophysics in Part 1 and applications and case histories in Part 2 Dedicated to Stanley H Ward Near Surface Geophysics updates and extends the scope of his landmark three volume book Geotechnical and Environmental Geophysics published by SEG in 1990 Part 1 of Near Surface Geophysics contains innovative material on magnetic and electrical methods subsurface geophysics near surface seismology electromagnetic induction and ground penetrating radar Part 2 emphasizes the determination of physical

properties the prevalence of multimethod surveys and integrated interpretations and the increasing use of model based survey planning execution and interpretation Near Surface Geophysics a peer reviewed book will be of interest to practitioners and students

**Multispectral and Hyperspectral Image Acquisition and Processing** Qingxi Tong, Yaoting Zhu, Zhenfu Zhu, 2001 *IGARSS*, 1996

**Subsurface Imaging with Ground Penetrating Radar** Richard Thomas Houck, 1984

*Step Frequency Ground Penetrating Radar Characterization and Federal Evaluation Tests* Michael Leon Scott, 2010 A step frequency ground penetrating radar SF GPR system was characterized and evaluated to determine whether it can be operated safely in a proposed configuration that may include frequency notching in specific frequency bands This emission testing was conducted with possible notching configurations turned on and then turned off to allow for both scenarios to be evaluated Testing work focused on emissions characterization measurements suitable for computer analysis of potential interference with relevant systems After initial testing was completed needs for follow up testing were defined This follow up testing was completed and results are included in this report

**Geophysics Today** Sergey Fomel, 2010 In celebration of the 75th year of publication the Geophysics editorial team invited a collection of papers written by well recognized experts in various areas of exploration geophysics These invited papers not only form part of the present book but they also appear in the September October 2010 special section of the journal Geophysics Today A Survey of the Field as the Journal Celebrates its 75th Anniversary complements this special section with an additional group of papers drawn from Geophysics to address areas beyond the invited articles The result is a snapshot of the state of the art in the field as Geophysics passes its three quarter century mark This book is Geophysical References Series No 16

Detection and Remediation Technologies for Mines and Minelike Targets, 1999

Application of GPR (Ground Penetrating Radar) in Florida for Detecting Forensic Burials, 2001 A study was performed at the University of Florida to measure ground penetrating radar GPR performance for detecting forensic burials In controlled scenarios 24 burials were constructed with pig cadavers Two soils were utilized to represent two of the most common soil order in Florida an Entisol and an Ultisol Graves were monitored on a monthly basis for time periods up to 21 months with grid data acquired with pulsed and swept frequency GPR systems incorporating several different frequency antennas A small subset of the graves was excavated to assess decomposition and relate to the GPR images during the test The grave anomalies in the GPR depth profiles

International Conference on Ground Penetrating Radar, 1992

Fourth International Conference on Ground Penetrating Radar Pauli Hänninen, Sini Autio, 1992

**Electrical & Electronics Abstracts**, 1997

*1997 IEEE Tencon* IEEE Region 10, IEEE TENCON, Queensland University of Technology, 1997 This text covers a 1997 conference on Speech and Image Technologies for Computing and Telecommunications It includes coverage of audio and electroacoustics underwater acoustic signal processing speech signal processing digital signal processing and signal processing applications

**Annual Research Review** Carnegie-Mellon University. Robotics Institute, 1989

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