

Electromagnetic Methods In Applied Geophysics Vol

Electromagnetic Methods in Geophysics

Fabio Giannino 2021-08-31 Discover the utility of four popular electromagnetic geophysical techniques In GeoRadar, FDEM, TDEM, and AEM Methods, accomplished researchers Fabio Giannino and Giovanni Leucci deliver an in-depth exploration of the theory and application of four different electromagnetic geophysical techniques: ground penetrating radar, the frequency domain electromagnetic method, the time domain electromagnetic method, and the airborne electromagnetic method. The authors offer a full description of each technique as they relate to the economics, planning, and logistics of deploying each of them on-site. The book also discusses the potential output of each method and how it can be combined with other sources of below- and above-ground information to create a digitized common point cloud containing a wide variety of data. Giannino and Leucci rely on 25 years of professional experience in over 40 countries around the world to provide readers with a fulsome description of the optimal use of GPR, FDEM, TDEM, and AEM, demonstrating their flexibility and applicability to a wide variety of use cases. Readers will also benefit from the inclusion of: A thorough introduction to electromagnetic theory, including the operative principles and theory of ground penetrating radar (GPR) and the frequency domain electromagnetic method (FDEM) An exploration of hardware architecture and surveying, including GPR, FDEM, time domain electromagnetic method (TDEM), and airborne electromagnetic (AEM) surveying A collection of case studies, including a multiple-geophysical archaeological GPR survey in Turkey and a UXO search in a building area in Italy using FDEM /li> Discussions of planning and mobilizing a campaign, the shipment and clearance of survey equipment, and managing the operative aspects of field activity Perfect for forensic and archaeological geophysicists, GeoRadar, FDEM, TDEM, and AEM Methods will also earn a place in the libraries of anyone seeking a one-stop reference for the planning

and deployment of GDR, FDEM, TDEM, and AEM surveying techniques.

Advances in Geophysical Methods Applied to Forensic Investigations

Giovanni Leucci 2020-05-07 This book provides a general introduction to the most important geophysical exploration methods and their application to forensic sciences. It describes physical principles, campaign procedures and processing, as well as interpretation techniques, while also highlighting new acquisition and data analysis procedures. A large section of the book is devoted to applications, from measurements to the interpretation of data. Further, the book shows how to design and perform a forensic survey, and offers guidance on selecting the best method for the problem at hand, and on selecting the best type of data acquisition and processing. Written in straightforward language and chiefly intended as an introductory text for students in several scientific fields, the book also offers a useful guide for specialists who want to expand their expertise in this fascinating discipline.

Electromagnetic Methods in Applied Geophysics

Misac N. Nabighian 1987

Electromagnetic Methods in Applied Geophysics

1991

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Misac N. Nabighian 1988 As a slag heap, the result of strip mining, creeps closer to his house in the Ohio hills, fifteen-year-old M. C. is torn between trying to get his family away and fighting for the home they love.

Subsurface Characterization and Monitoring

Techniques J. Russell Boulding 1996-07 Provides information on where to go to find detailed guidance on how to use these techniques.

Covers: remote sensing & surface geophysical methods; drilling & solids sampling methods; geophysical logging of boreholes; aquifer test methods; ground water sampling methods; Vadose Zone (VZ) hydrologic properties: water state, infiltration, conductivity, & flux; VZ water budget characterization methods; VZ soil-solute/gas sampling & monitoring methods; & chemical field screening & analytical methods.

principles of EM inversion as a first step toward achieving the elusive goal of automatic interpretation of EM data.

Exploration with Deep Transient

Electromagnetics Kurt-Martin Strack 1992
Hardbound. This is a comprehensive description of deep transient electromagnetics which allows the geophysicist to learn about the technique from the beginning of instrument design to the final interpretation. It covers the application of deep transient electromagnetics to oil exploration, geothermal exploration and deep crustal studies. Case histories are used to explain the concepts shown. Problems are included at the end of each chapter. Also, demonstration software is enclosed. The book may be used as a textbook as well as for design and development of a field system. In particular it will be of interest to research and exploration geophysicists and students.

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