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Principles of Induced Polarization for Geophysical Exploration Induced Polarization Resistivity and Induced Polarization Induced Polarization Principles of Induced Polarization for Geophysical Exploration Theory and Application of Spectral Induced Polarization Background Effects in the Induced Polarization Method of Geophysical Exploration Experimental and Theoretical Aspects of Induced Polarization Experimental and Theoretical Aspects of Induced Polarization A Method to Calculate the Frequency Effect and Chargeability of Induced Polarization in an Inhomogeneous Medium Dual Frequency Induced Polarization Method Model Studies on Spectral Induced Polarization A Parametric Study of Induced Polarization Models R023: Induced polarization (resistivity) and magnetic surveys of altered Tertiary volcanic rocks near Reno, Nevada Overvoltage Research and Geophysical Applications Prospecting for Ground Water by Induced Electrical Polarization The Effects of Low Temperature on the Induced Polarization Response of Mississippi Valley-type Ore Samples Causes and Symptoms of Socio-Cultural Polarization Manufacturing Science and Technology, ICMST2011 Electric Profile, March Air Reserve Base, CA Chemically Induced Magnetic Polarization Chemically Induced Magnetic Polarization Electrically Induced Polarization Studies of Electrolyte Saturated Earth Plugs Electromagnetic Coupling with a Collinear Array on a Two-layer Anisotropic Earth Induced Polarization in Sedimentary Rocks Microcomputer Software for Individual Or Simultaneous Inverse Modeling of Transient Electromagnetic, Resistivity, and Induced Polarization Soundings Chemically Induced Magnetic Polarization Characterization of Effective Hydraulic Properties of Unsaturated Porous Media Using Spectral Induced Polarization (SIP) Theories of Chemically Induced Magnetic Polarization Induced Polarization Measurements on Copper Deposit of Saindak, Chagai District, Baluchistan, Pakistan Bibliography and Index of Geology Chemically Induced Magnetic Polarization Izvestiya, Academy of Sciences, USSR. Economic Geology, Seventy-fifth Anniversary Volume, 1905-1980 Annual Mining Report of the Department of Mines and Agriculture Chemically Induced Dynamic Nuclear Polarization Chemically Induced Dynamic Nuclear Polarization Cumulative Index Geophysics, Journal of the Society of Exploration Geophysicists (1936-1988 Inclusive) ; Early Geophysical Papers ; Geophysics, the Leading Edge of Exploration (selected Papers, 1982-88 Inclusive) ... An Introduction to Electrical and Electromagnetic Procedures for Geophysical Exploration Annali di geofisica

Principles of Induced Polarization for Geophysical Exploration

2012-12-02

developments in economic geology 5 principles of induced polarization for geophysical exploration focuses on the principles methodologies and approaches involved in induced polarization ip including anisotropism electromagnetic coupling and electrical circuits the book first takes a look at resistivity principles theory of ip and laboratory work in ip concerns cover electrical measurements of rocks anisotropism early part of decay curve and the comparison with frequency effects electrical models of induced polarization electrical polarization resistivities of earth materials and resistivity exploration methods the manuscript then elaborates on ip field equipment telluric noise and electromagnetic coupling ip field surveying and drill hole and underground surveying and the negative ip effect discussions focus on differences between surface and subsurface methods current sending system in the field telluric earth currents electromagnetic coupling design considerations coupling of electrical circuits design considerations and signal generating system the manuscript ponders on the complex resistivity method and interpretation of induced polarization data including grade estimation of mineralization using the ip method complex resistivity survey signal detection capabilities of the complex resistivity method and disadvantages of the complex resistivity method the text is a valuable source of information for researchers wanting to study induced polarization

Induced Polarization

1990

a comprehensive text on resistivity and induced polarization covering theory and practice for the near surface earth supported by modelling software

Resistivity and Induced Polarization

2020-12-17

the authors review spectral induced polarization theory and describe some of the sip method s applications through a discussion of their research in the people s republic of china in the first of four chapters they discuss the electrochemical basis of sip offering proof of the validity of using the cole cole model for describing complex resistivity spectra in the next chapter which addresses the sip forward problem they describe the scale modeling laws for sip various forward algorithms the behavior and variation laws of sip anomalies and effective sip parameters the third chapter discusses sip inversion methods including several methods of calculating the intrinsic spectral parameters of a polarizable body in the final chapter the authors describe their field tests applying the sip method to prospecting for orebodies and oil and gas reservoirs the material is introduced in part through a reprinting of a 1959 paper by volume editor james r wait titled the variable frequency method

Induced Polarization

1959

dual frequency induced polarization method an effective approach for mineral exploration provides the first english language text on the successful but little known dual frequency induced polarization method engineers and technicians in geophysical exploration will appreciate learning about this enhanced method in sections that comprehensively explain the basic principle method technology and application of the dual frequency induced polarization method chapters cover the mathematical basis observation parameters instrument principle application essentials field work methods technology interference factors and their overcoming methods ore prospecting and engineering application examples and more in particular the needs of frontline engineering and technical personnel are addressed in chapters specifically related to field work researchers engineers and technicians working in geophysical exploration

will discover a thorough and detailed description of all aspects of the dual frequency induced polarization method comprehensively discusses the basic principle method technology and application effect of dual frequency ip method covers field work methods techniques interference factors and overcoming methods ore prospecting and engineering application examples etc considers the needs of front line engineering and technical personnel

Principles of Induced Polarization for Geophysical Exploration

1976

overvoltage research and geophysical applications deals with the subject of overvoltage or induced electrical polarization as it relates to geophysical exploration this book presents the results of theoretical and experimental research conducted between 1946 and 1958 to investigate overvoltage and sponsored by newmont mining corporation this book is comprised of 10 chapters and begins with a brief overview of the history of newmont s interest in overvoltage the next chapter describes a theory for induced polarization effects for step function excitation with particular reference to a mathematical formulation that represents the volume distribution of dipolar sources the reader is then introduced to a brief theoretical derivation for the effective conductivity and dielectric constant of a homogeneous medium loaded with a uniform distribution of spherical conducting particles the following chapters explore the complex conductivity of rocks as a function of frequency laboratory studies of induced polarization in mineralized and non mineralized rock specimens induced polarization decay curves on rock specimens and phenomena resulting from electric polarization of rocks at low frequencies some electrical transient measurements on igneous sedimentary and metamorphic rocks are presented the final chapter considers various explanations of the normal effect and describes induced polarization experiments this monograph will be of interest to geophysicists

Theory and Application of Spectral Induced Polarization

1998

this book explores cultural polarization resultant decline in social cohesion in society and how information and communication technologies exacerbate the cultural polarization through phenomenon such as echo chambers of information that damage the quality of online discourse this book examines the nature of the information that is shared further this book identifies how the quality of online discourse and polarization induced through it leads to offline harm and negative outcomes in our society this book discusses how wide ranging information exchange on digital media can lead to two scenarios namely the formation of the public sphere or the formation of echo chambers while the public sphere which promotes greater diversity is a well researched domain substantially less research has been conducted on echo chambers in relation to sociocultural activities products or services this book states that polarization induced by the formation and evolution of echo chambers in sociocultural realm such as around epidemic outbreaks vaccination healthcare education and climate change is an emerging avenue of research due to its enormous impact in the shaping of our society therefore this book argues that understanding the characteristics of sociocultural products related controversies is critical and valuable in developing interventions to reduce unhealthy societal and organizational polarisations the development of systematic knowledge is required to understand and address such a large scale and complex societal challenge so as to facilitate a deeper understanding and offer solutions to the growing issue of polarization in sociocultural context driven primarily through echo chambers this book examines how technology enabled social media usage increases and the complex structural outcomes such as echo chambers are likely to have an increasingly important role in shaping public opinion this book appeals to readers with interest in developing a deeper and broader understanding of issues and initiatives related to the polarization of opinions on cultural products these include readers and scholars from various disciplines along with engaged organizational leaders activists policy makers and common citizens

Background Effects in the Induced Polarization Method of Geophysical Exploration

1957

volume is indexed by thomson reuters cpci s was the objective of icmst 2011 was to provide a platform where researchers engineers academics and

industrial professionals from all over the world could present their research results and discuss developments in manufacturing science and technology this conference provided opportunities for delegates to exchange new ideas and applications face to face to establish business or research contacts and to find global partners for future collaboration

Experimental and Theoretical Aspects of Induced Polarization

1976

a study of the effects of electromagnetic coupling in dipole dipole and pole dipole induced polarization field measurements with evaluation of a coupling removal technique

Experimental and Theoretical Aspects of Induced Polarization

1976

magnetic resonance has constantly been able to surprise with its ability to exhibit new phenomena just when it appears to be entering a quiet middle age it bursts into activity with some new manifestation of its versatility this happened a few years ago when observations on anomalous intensities were looked at more closely and the pursuit of explanations and further evidence laid the foundations of the subjects treated in this volume in organizing the nato advanced study institute we attempted to bring together a number but by no means all of those who had contributed significantly to the subject and to obtain from them a comprehensive and detailed exposition of the subject we were particularly anxious to avoid a set of lectures that dealt solely with the theory of the subject because much of the interest in chemically induced magnetic polarization is due to its usefulness in applications to chemical problems it is a real chemical technique not just an amusing diversion for theoreticians we set about organizing the course with the idea of making it useful to people who wanted to use the technique for after all in the case of nuclear polarization cidnp the technique can be used in any laboratory with minor modification of standard equipment

A Method to Calculate the Frequency Effect and Chargeability of Induced Polarization in an Inhomogeneous Medium

1974

the papers that make up this volume are grouped under three general headings geology of major classes of mineral deposits application of geology geophysics and geochemistry to mineral exploration and economic and social factors that affect exploration and development of mineral deposits the papers on geology are arranged generally so as to emphasize changes in the nature and type of mineral deposits through geologic time

Dual Frequency Induced Polarization Method

2023-11-24

1875 include also the annual report of the government geologist

Model Studies on Spectral Induced Polarization

1990

introductory technical guidance for civil petroleum and geotechnical engineers interested in electrical and electromagnetic procedures for geophysical exploration

A Parametric Study of Induced Polarization Models

1976

R023: Induced polarization (resistivity) and magnetic surveys of altered Tertiary volcanic rocks near Reno, Nevada

2013-10-22

Overvoltage Research and Geophysical Applications

1956

Prospecting for Ground Water by Induced Electrical Polarization

1981

The Effects of Low Temperature on the Induced Polarization Response of Mississippi Valley-type Ore Samples

2022-03-22

Causes and Symptoms of Socio-Cultural Polarization

2011-11-22

Manufacturing Science and Technology, ICMST2011

1998

Electric Profile, March Air Reserve Base, CA

1977-10-31

Chemically Induced Magnetic Polarization

1959

Chemically Induced Magnetic Polarization

1979

Electrically Induced Polarization Studies of Electrolyte Saturated Earth Plugs

1962

Electromagnetic Coupling with a Collinear Array on a Two-layer Anisotropic Earth

1990

Induced Polarization in Sedimentary Rocks

2012-12-06

Microcomputer Software for Individual Or Simultaneous Inverse Modeling of Transient Electromagnetic, Resistivity, and Induced Polarization Soundings

2012

Chemically Induced Magnetic Polarization

1979

Characterization of Effective Hydraulic Properties of Unsaturated Porous Media Using Spectral Induced Polarization (SIP)

1973

Theories of Chemically Induced Magnetic Polarization

1987

Induced Polarization Measurements on Copper Deposit of Saindak, Chagai District, Baluchistan, Pakistan

1973

Bibliography and Index of Geology

1975

Chemically Induced Magnetic Polarization

1981

Izvestiya, Academy of Sciences, USSR.

1967

Economic Geology, Seventy-fifth Anniversary Volume, 1905-1980

1973*

Annual Mining Report of the Department of Mines and Agriculture

1973

Chemically Induced Dynamic Nuclear Polarization

1990

Chemically Induced Dynamic Nuclear Polarization

2018-02-27

Cumulative Index Geophysics, Journal of the Society of Exploration Geophysicists (1936-1988 Inclusive) ; Early Geophysical Papers ; Geophysics, the Leading Edge of Exploration (selected Papers, 1982-88 Inclusive) ...

1997

An Introduction to Electrical and Electromagnetic Procedures for Geophysical Exploration

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