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Patrick Klenk ... are methods, where the
water content is obtained via physical proxy
quantities such as di- ... electromagnetic
waves and therefore represents the antenna in
the system.

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that is not available from surface geological
observations. Because the electrical
resistivity of different earth materials
ranges over many orders of magnitude,
electromagnetic (EM) methods are used to map
the subsurface resistivity structure.

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ELECTROMAGNETIC METHODS IN APPLIED GEOI~HYSICS 13 cycles) of 30 MHz were measured at the face of coal seams in mines, to test for disrupt- ions in the seams. These disruptions affect automatic mining operations, and can cost several million dollars a year in one large mine. Reflections from distances of 20-30 m

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Controlled Source Electromagnetic Methods
Frank Morrison U.C. Berkeley With the help
of: David Alumbaugh Erika Gasperikova ...
0.001 100 30 10 3 1-2000 -1000 0 1000 2000
Distance (m) F r e q u e n c y (H
z)-155-150-145-140-135 Phase (deg) 1000 100
10 1 0.1 0.01 0.001 TE response of conductive
dike . 100 m 10 Ohm-m

A Brief Introduction to Magnetotellurics and
Controlled ...

Subsurface Surveys, an applied geophysics
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Applied electromagnetic research in recent years has been influenced by the growing importance of geothermal energy, coal, and permafrost, in addition to the traditional area of minerals. The interest in near-insulators such as coal and ice encouraged development of radars and other VHF-UHF techniques. Interpreting such measurements required reliable physical properties data for those ...

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In applied geophysics, the term is usually used to refer to methods that use a low frequency time-varying magnetic field as a source to excite electrical currents in the ground through the principle of electromagnetic induction. These methods are sensitive to the electrical conductivity of the subsurface. The GPR, DC resistivity and induced polarization methods are also governed by the laws of electromagnetism but excite the earth differently enough that they are classified separately.

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Exploration geophysics is an applied branch

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of geophysics and economic geology, which uses physical methods, such as seismic, gravitational, magnetic, electrical and electromagnetic at the surface of the Earth to measure the physical properties of the subsurface, along with the anomalies in those properties. It is most often used to detect or infer the presence and position of economically useful geological deposits, such as ore minerals; fossil fuels and other hydrocarbons; geothermal reservoir

Exploration geophysics - Wikipedia

Natural-source Audio-frequency

Magnetotellurics (AMT) is an electromagnetic survey technique that uses naturally-occurring ionospheric currents and lightning storms – passive energy sources – to electrically map geologic structure to depths of 500 meters or more. Natural-source electromagnetic (EM) signals are generated in the atmosphere and magnetosphere.

Introduction to AMT

Transient electromagnetics, (also time-domain electromagnetics / TDEM), is a geophysical exploration technique in which electric and magnetic fields are induced by transient pulses of electric current and the subsequent decay response measured. TEM / TDEM methods are generally able to determine subsurface

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electrical properties, but are also sensitive to subsurface magnetic properties in ...

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