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Methods In Applied Geophysics

Abstract. 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.

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Applications of EM methods in  
mountainous regions are less frequent  
(Schm ö ller and Fr ü hwirth 1996, Hauck  
et al. 2001, Beylich et al. 2003, Bucki et al.  
2004, Maurer and Hauck 2007), but have  
been increasing in recent years.

Electromagnetic techniques include  
frequency-domain EM systems (FEM),  
time-domain electromagnetic systems  
(TDEM), systems using very low  
frequencies (VLF) and the so-called  
radiomagnetotelluric method (RMT).

Electromagnetic methods (Chapter 2) -  
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John D. Corbett. SEG Books, 1988 - Vol  
Technology & Engineering - 513 pages. 0  
Reviews. This volume presents  
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Electromagnetic Methods in Applied  
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Electromagnetic Methods in Applied  
Geophysics: Theory Volume 1 : Misac  
Nabighian : The immediate objective of a  
geophysical survey is to obtain some  
information about the interior spatial  
distribution of one or more of the earth ' s  
physical properties from a limited set of  
measurements of a related geophysics field  
made on the earth ' s surface or another  
accessible place.

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Examples for this class of techniques are

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the time domain reflectometry (TDR) and the ground penetrating radar (GPR), which will be applied in this practical course.

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Geophysics: Volume 1, Theory Editor(s)

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... Over the last two decades there have

been significant advances in

electromagnetic (EM) methods of

exploration, as evidenced by the extensive

research carried out at various companies

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**ELECTROMAGNETIC METHODS IN**

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transmitter and receiver, since there is one

less variable, but ambiguity may be more

severe. Interpretation of transient results is

assisted by an important theoretical result

which has been verified in scale models.

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Electromagnetic methods in applied geophysics

Volume 2 covers, in depth, the physical basis of EM methods of exploration magnetometric resistivity method, profiling methods using small sources, large-layout harmonic field systems, EM soundings, time-domain EM prospecting methods, VLF, MT, CSAMT, airborne EM methods, borehole EM techniques, and electrical exploration methods for the seafloor.

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Electromagnetic methods, such as magnetotellurics, ground penetrating radar, transient/time-domain electromagnetics and SNMR. Borehole geophysics, also called well logging. Remote sensing techniques, including hyperspectral imaging. Many other techniques, or methods of integration of the above techniques, have been developed and are currently used.

Exploration geophysics - Wikipedia  
Electromagnetic Methods in Applied Geophysics, Misac N. Nabighian Volume 1 of Electromagnetic Methods in Applied Geophysics: Applications Part A and Part B, ISBN 093183046X, 9780931830464  
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Editors: Misac N. Nabighian, John D. Corbett: Edition: illustrated, reprint:

Publisher: Society of Exploration

Geophysics, 1988: Original from

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Electromagnetic Methods in Applied  
Geophysics: Theory ...

Electromagnetic induction (EM), as the name implies, uses the principle of induction to measure the electrical conductivity of the subsurface. Unlike conventional resistivity techniques, no ground contact is required. This eliminates direct electrical coupling problems and allows much more rapid data acquisition.

Geophysical Methods & Applications

Electromagnetic inductive methods provide an excellent means to obtain information about electrical ground conductivities. They can be classified as natural field methods and controlled

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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.

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Electromagnetic Methods In Applied  
Geophysics:Vol.1, Theory (Investigations  
In Geophysics No.3)

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