

## Computational Methods In Geophysical Electromagnetics

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### Computational Methods In Geophysical Electromagnetics

Keywords: computational, electromagnetics, inverse problems, geophysics, Maxwell's equations - Hide Description This monograph provides a framework for students and practitioners who are working on the solution of electromagnetic imaging in geophysics.

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Electromagnetic (EM) methods include some of the most commonly employed geophysical techniques used for environmental and geotechnical studies. EM methods employ active sensing technology in which a generated EM field is used to induce secondary EM response in the mediums being investigated.

### Electromagnetics | Naeva Geophysics

Computational Geo-Electromagnetics: Methods, Models, and Forecasts, Volume Five in the Computational Geophysics series, is devoted to techniques for building of geoelectrical models from electromagnetic data, featuring Bayesian statistical analysis and neural network algorithms. These models are applied to studying the geoelectrical structure of famous volcanoes (i.e., Vesuvio, Kilauea, Elbrus, Komagatake, Hengill) and geothermal zones (i.e., Travale, Italy; Soultz-sous-Forets, Elsale).

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