

## GEOPHYSICAL SURVEYS IN CIVIL ENGINEERING SITE INVESTIGATIONS

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The field of geophysics is the application of physics to the study of geology and it can be usefully included in Civil Engineering site investigations, land and marine, both at the feasibility and final design stages.

At the feasibility stage of a project geophysical methods allow for rapid collection of data over a large area but unfortunately very rarely provide an actual sample of soil or rock under consideration. They are, however, a rapid cost-effective approach to obtain a broad scale picture of sub-ground conditions which can then be used to choose the optimum site for detailed examination.

This paper considers general applications of geophysical techniques to land and marine projects at the planning stage. Examples are also given of the use of these techniques to attempt to solve problems encountered during construction.

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