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An important use of seismic arrays is the separation of coherent signals and noise. The basic method to separate coherent and incoherent parts of the recorded signal is array beam forming. Beam forming uses the differential travel times of the plane wave front due to a specific slowness and back azimuth to individual array stations.

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The basic principle of all seismic methods is the controlled generation of elastic waves by a seismic source in order to obtain an image of the subsurface. Seismic waves are pulses of strain energy that propagate in solids and fluids. Seismic energy sources, whether at the Earth's surface or in shallow boreholes, produce wave types known as:

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Seismic Methods and Applications A Guide for the Detection of Geologic Structures, Earthquake Zones and Hazards, Resource Exploration, and Geotechnical Engineering by Andreas Stark. Author website: <http://www.clasinaterra.com>. Number of Pages: 591; ISBN-10: 1599424436; ISBN-13: 9781599424439; Publisher: BrownWalker Press Year: 2010; Category: ,

Seismic Methods | Environmental Geophysics | US EPA

Seismic methods, such as reflection seismology, seismic refraction, and seismic tomography. This type of survey is carried out to discover the detailed structure of the rock formations beneath the surface of the Earth.

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ARRAY SEISMOLOGY: METHODS AND APPLICATIONS

Reflection seismology is a method of exploration geophysics that uses the principles of seismology to estimate the properties of the Earth's subsurface from reflected seismic waves. The method requires a controlled seismic source of energy, such as dynamite or Tovex blast, a specialized air gun or a seismic vibrator, commonly known by the trademark

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name Vibroseis. Reflection seismology is similar to sonar and echolocation. This article is about surface seismic surveys; for vertical seismic profi

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Collier employs various types of seismic methods to various problems including: reflection, refraction, tomography, active and passive MASW, downhole and crosshole seismic, and marine applications. We are a leader in applying full wave form inversion to shallow seismic applications to map fractures, voids and karst.

Reflection seismology - Wikipedia

The marine seismic method is not only used for hydrocarbon exploration applications. Other applications include shallow imaging for mineral exploration and engineering site investigation surveys (e.g., Müller et al., 2009), deep crustal imaging (e.g., Singh et al., 2008), or seismic oceanography (Holbrook et al., 2009).

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Seismic Method - an overview | ScienceDirect Topics

using seismic acoustical waves. Reflection and Refraction are the most commonly used seismic techniques. These methods determine geological structure and rock velocities by either refracting or reflecting waves off boundaries between rock units with different seismic velocities or impedance. Seismic Refraction:

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Seismic Reflection Methods. Common-Offset Seismic Reflection Method; Subbottom Profiling; Fathometer Surveys; Surface Wave Methods. Spectral Analysis of Surface Waves (SASW) Common-Offset Rayleigh Wave Method; The pages found under Surface Methods and Borehole Methods are substantially based on a report produced by the United States Department of Transportation:

Geophysical Methods & Applications

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The advantages and disadvantages and the appropriate applications and restrictions of the techniques will also be discussed. The main methods discussed are the beam-forming method, which forms the basis for several other methods, different slant stacking techniques, and frequency-wave number analysis.

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