

Digital Filtering Applications In Geophysical Exploration For Oil

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Access Free Digital Filtering Applications In Geophysical Exploration For Oil acquired (raw) signal through the application of filters, algorithms, and transforms to make the wanted signal clearer in both the time and frequency domains. The two main goals of geophysical signal processing are:

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Get this from a library! Digital filtering : applications in geophysical exploration for oil. [Attila Meskó]

[Digital filtering : applications in geophysical...](#)

This book is a comprehensive work bringing together the important mathematical foundations and computing techniques for numerical filtering methods. The first two parts of the book introduce the techniques, fundamental theory and applications, while the third part treats specific applications in geophysical prospecting.

[Fundamentals of digital filtering with applications in...](#)

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Geophysical signal processing is a method that through the use of computers aims to manipulate the acquired (raw) signal through the application of filters, algorithms, and transforms to make the wanted signal clearer in both the time and frequency domains. The two main goals of geophysical signal processing are: improvement of the signal-to-noise ratio, and results representation in a convenient manner to facilitate geological and geophysical interpretation.

[Geophysical signal processing - SEG Wiki](#)

GEOPHYSICAL RESEARCH LETTERS, VOL. 25, NO. 21, PAGES 4035-4038, NOVEMBER 1, 1998 Radar interferogram filtering for geophysical applications Richard M. Goldstein and Charles L. Werner Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California Abstract. The use of SAR interferometry is often im-

[Radar interferogram filtering for geophysical applications](#)

Analysis of geophysical signals also offers us a qualitative insight into the possibility of occurrence of a natural calamity such as earthquakes or volcanic eruptions. Gravitational and magnetic fields are detected using extremely sensitive gravimeters and magnetometers respectively.

[Geophysical signal analysis - Wikipedia](#)

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The function of a filter is to transform a signal into another one more suitable for a given purpose. As such, filters find applications in telecommunications, radar, sonar, remote sensing, geophysical signal processing, image processing, and computer vision. Numerous authors have considered. Nonlinear Digital Filters - Principles and Applications | Ioannis Pitas | Springer.

[Nonlinear Digital Filters - Principles and Applications...](#)

By David Zaucha, Texas Instruments, Dallas, Texas, USA 02.20.2003 0. To provide additional insight in the application and impact of precision in digital filter, examples of two practical digital applications are shown. The first example is an equalization of a small monitor loudspeaker. The second example is an electronic crossover for a 3-way loudspeaker.

[Practical applications of digital filters | EE Times](#)

APPLICATIONS 1.Noise suppression (a)imaging devices (medical, etc) (b)biosignals (heart, brain) (c)signals stored on analog media (tapes) 2.Enhancement of selected frequency ranges (a)equalizers for audio systems (increasing the bass) (b)edge enhancement in images 3.Removal or attenuation of selected frequencies (a)removing the DC component of a signal

[DIGITAL FILTERING 1.Applications 2.Digital and analog...](#)

Filters are circuits or devices in which the output gain and phase vary as a function of the frequency of the input. This frequency sensitivity makes them useful in removing undesirable elements of a signal or compensating for some frequency dependent distortion within the signal. Teledyne LeCroy's Digital Filter Package 2 (DFP2) option, for oscilloscopes, offers a selection of several standard (infinite impulse response or finite impulse response) filters including low pass, high pass, band ...

[Digital Filter Applications - Teledyne LeCroy](#)

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Geophysical surveys have many applications in geology, archaeology, mineral and energy exploration, oceanography, and engineering. Geophysical surveys are used in industry as well as for academic research. The sensing instruments such as gravimeter, gravitational wave sensor and magnetometers detect fluctuations in the gravitational and magnetic field. The data collected from a geophysical survey is analysed to draw meaningful conclusions out of that.

[Geophysical survey - Wikipedia](#)

Migration-based filtering: Applications to geophysical imaging data. Jianjian Huo 1, Binzhong ... 1997, Efficient design of digital filters for. 2-D and 3-D depth migration: IEEE Transactions on ...

[Migration-based filtering: Applications to geophysical...](#)

1.3 The problem of ambiguity in geophysical interpretation 6. 1.4 The structure of the book 7. 2 Geophysical data processing 8. 2.1 Introduction 8. 2.2 Digitization of geophysical data 8. 2.3 Spectral analysis 10. 2.4 Waveform processing 13. 2.4.1 Convolution 13. 2.4.2 Deconvolution 16. 2.4.3 Correlation 16. 2.5 Digital filtering 17. 2.5.1 ...

[An Introduction to Geophysical Exploration, 3rd Edition...](#)

Examples illustrate data processing with pass filters. Examples of digital-alias filters are given. Applications include synthetic data as well as actual field examples. The applications relate to exploration seismology; however, these filters are quite general, applying equally well to other geophysical, geological, and scientific problems.