

# Chapter 3 Seismic Data Processing

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Chapter 3 looks at how 2-D seismic data are acquired and processed (many processing steps are shared between 2-D and 3-D processing). We then look at how 2-D data are interpreted in Chapter 4 (it is good to learn how to walk before learning to run, and the contrasts between 2-D work and 3-D work are

enlightening) .

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## **1 Introduction to seismic data and processing**

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The goal of seismic processing is to convert terabytes of survey data into a 3D volume description of the earth's subsurface structure. A typical data set contains billions of vectors of a few thousand values each, where each vector represents the information recorded by a detector at a specific location and specific wave shot.

### **Chapter 3 Seismic Data Processing**

1 Introduction to seismic data and processing Chapter contents  
1.1 Seismic data and their acquisition, processing, and interpretation  
1.2 Sampled time series, sampling rate, and aliasing  
1.3 Seismic amplitude and gain control  
1.4 Phase and Hilbert transforms  
1.5 Data format and quality control (QC)  
1.6 Summary Further reading

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chapter 3 seismic data processing. Seismic magnitude scales Wikipedia April 18th, 2019 - Seismic magnitude scales are used to describe the overall strength or size of an earthquake These are distinguished from seismic intensity scales that categorize the intensity or severity of ground shaking quaking caused by an earthquake at a given location

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Seismic data: bandwidth and phase The seismic trace is composed of energy that has a range of frequencies. Mathematical methods of Fourier analysis (e.g. Sheriff and Geldart, 1995) allow the

decomposition of a signal into component sinusoidal waves, which in general have amplitude and phase that vary with the frequency of the component.

### **Seismic wavelets and resolution (Chapter 3) - Seismic**

The final part covers statistical seismic signal processing via Wiener optimum filtering, deconvolution, linear-prediction filtering and seismic wavelet processing. With over sixty end-of-chapter exercises, seismic data sets and data processing MATLAB codes included, this is an ideal resource for electrical engineering students unfamiliar with seismic data, and for Earth Scientists and petroleum professionals interested in DSP techniques.

### **3-D seismic data acquisition and processing (Chapter 2)**

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### **Chapter 38. Imaging Earth's Subsurface Using CUDA | NVIDIA**

The basics of QC and processing of seabed seismic data are treated in Chapter 3 where two model

processing work-flows are showcased to explain the requisite data processing keys. The improvements

### **Chapter 3 Seismic Data Processing**

The vast bulk of seismic data currently acquired is 3-D, owing to the tremendous advantages in terms of interpretability discussed in chapter 1. Today it is unusual for the major oil companies to drill exploration wells prior to a 3-D survey being shot, processed and interpreted.

### **2d and 3d seismic acquisition and seismic data processing**

Chapter 3: Seismic Data Acquisition, Processing, and Almost all concepts of 2-D seismic data processing apply to 3-D data processing. Additional complications do arise in 3-D geometry quality control, statics, velocity analysis, and migration. Editing traces with high-level noise, geometric spreading correction, deconvolution and trace balancing, field

### **Advanced Digital Signal Processing of Seismic Data | Wail**

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