



Signal Processing for Geologists and Geophysics (Institut Francais Du Petrole Publications)

By Frans Glangeaud, Jean-Luc Mari

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Increasingly sophisticated techniques are available for obtaining seismic sections that give an accurate description of subsurface heterogeneities. These techniques continue to benefit from the progress made in research by signal processing specialists. The aim of this book is to familiarize geologists and geophysicists with the basic concepts of signal processing used in seismic surveys. It shows the value of using a combination of tools to solve a given problem. Many of the examples in this book come from the latest research. Its goal is to improve understanding of the most common signal processing algorithms and to suggest a methodology for testing them. Sometimes, modeling with simple, well-known functions is a very useful way to understand the behavior of a transformation. In this way, we seek to provide the specialist with a critical approach for handling these algorithms. This book will encourage the exchange of information among geologists, geophysicists and signal processing researchers, and will provide them with invaluable technical know-how.

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