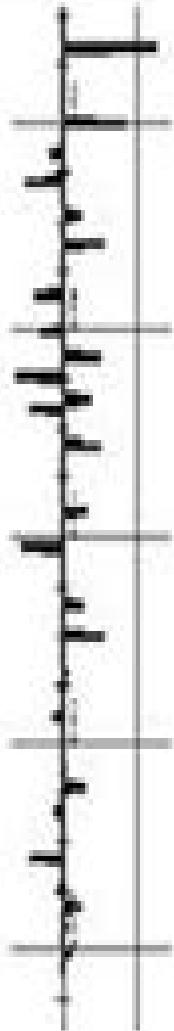


# Processing: Deconvolution

GEOLOGIC MODEL



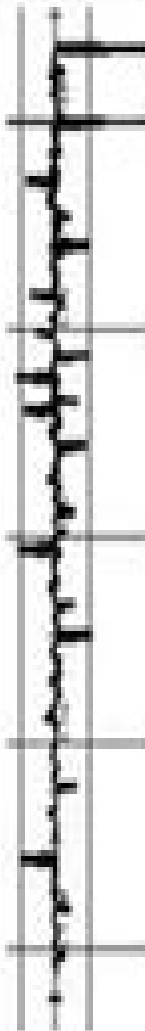
IDEAL SEISMIC RESPONSE



ACTUAL SEISMIC RESPONSE



AFTER DECONVOLUTION



## CONVOLUTION

$$W = \begin{pmatrix} 1 & 2 \\ 1 & 3 \end{pmatrix} \quad R = \begin{pmatrix} 2 & 1 \\ 2 & 3 \end{pmatrix}$$

$$W \cdot R = S \quad \begin{pmatrix} 1 & 2 \\ 1 & 3 \end{pmatrix} \cdot \begin{pmatrix} 2 & 1 \\ 2 & 3 \end{pmatrix} = \begin{pmatrix} 4 & 7 \\ 8 & 10 \end{pmatrix}$$

## DECONVOLUTION

$$R = W^{-1} \cdot S$$

$$W^{-1} = 1/D \begin{pmatrix} 3 & -2 \\ -1 & 1 \end{pmatrix} = 1/3 \cdot 2 \begin{pmatrix} 3 & -2 \\ -1 & 1 \end{pmatrix} = \begin{pmatrix} 3 & -2 \\ -1 & 1 \end{pmatrix}$$

$$R = W^{-1} \cdot S \quad \begin{pmatrix} 3 & -2 \\ -1 & 1 \end{pmatrix} \cdot \begin{pmatrix} 4 & 7 \\ 8 & 10 \end{pmatrix} = \begin{pmatrix} 2 & 1 \\ 2 & 3 \end{pmatrix}$$

$$W = S \cdot R^{-1} \quad \begin{pmatrix} 4 & 7 \\ 8 & 10 \end{pmatrix} \cdot \begin{pmatrix} 3/4 & -1/4 \\ -1/2 & 1/2 \end{pmatrix} = \begin{pmatrix} 1 & 2 \\ 1 & 3 \end{pmatrix}$$

# Deconvolution Of Seismic Data Benchmark Papers In Electrical Engineering

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*Optimal Seismic Deconvolution* Jerry M. Mendel, 2013-09-03 *Optimal Seismic Deconvolution An Estimation Based Approach* presents an approach to the problem of seismic deconvolution It is meant for two different audiences practitioners of recursive estimation theory and geophysical signal processors The book opens with a chapter on elements of minimum variance estimation that are essential for all later developments Included is a derivation of the Kalman filter and discussions of prediction and smoothing Separate chapters follow on minimum variance deconvolution maximum likelihood and maximum a posteriori estimation methods the philosophy of maximum likelihood deconvolution MLD and two detection procedures for determining the location parameters in the input sequence product model Subsequent chapters deal with the problem of estimating the parameters of the source wavelet when everything else is assumed known a priori estimation of statistical parameters when the source wavelet is known a priori and a different block component method for simultaneously estimating all wavelet and statistical parameters detecting input signal occurrence times and deconvolving a seismic signal The final chapter shows how to incorporate the simplest of all models the normal incidence model into the maximum likelihood deconvolution procedure **Deconvolution of Seismic Data** V. K. Arya, Jagdishkumar Keshoram Aggarwal, 1982

*Maximum-Likelihood Deconvolution* Jerry M. Mendel, 2012-12-06 Convolution is the most important operation that describes the behavior of a linear time invariant dynamical system Deconvolution is the unraveling of convolution It is the inverse problem of generating the system's input from knowledge about the system's output and dynamics Deconvolution requires a careful balancing of bandwidth and signal to noise ratio effects Maximum likelihood deconvolution MLD is a design procedure that handles both effects It draws upon ideas from Maximum Likelihood when unknown parameters are random It leads to linear and nonlinear signal processors that provide high resolution estimates of a system's input All aspects of MLD are described from first principles in this book The purpose of this volume is to explain MLD as simply as possible To do this the entire theory of MLD is presented in terms of a convolutional signal generating model and some relatively simple ideas from optimization theory Earlier approaches to MLD which are couched in the language of state variable models and estimation theory are unnecessary to understand the essence of MLD MLD is a model based signal processing procedure because it is based on a signal model namely the convolutional model The book focuses on three aspects of MLD 1 specification of a probability model for the system's measured output 2 determination of an appropriate likelihood function and 3 maximization of that likelihood function Many practical algorithms are obtained Computational aspects of MLD are described in great detail Extensive simulations are provided including real data applications

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volume contains the collection of papers from the second workshop on Experimental Acoustic Inversion Techniques for Exploration of the Shallow Water Environment Acoustic techniques provide the most effective means for remote sensing of ocean and sea floor processes and for probing the structure beneath the sea floor No other energy propagates as efficiently in the ocean radio waves and visible light are severely limited in range because the ocean is a highly conductive medium However sound from breaking waves and coastal shipping can be heard throughout the ocean and marine mammals communicate acoustically over basin scale distances The papers in this book indicate a high level of research interest that has generated significant progress in development and application of experimental acoustic inversion techniques The applications span a broad scope in geosciences from geophysical biological and even geochemical research The list includes estimation of geotechnical properties of sea bed materials navigation and mapping of the sea floor fisheries aquaculture and sea bed habitat assessment monitoring of marine mammals sediment transport and investigation of natural geohazards in marine sediments Audience This book is primarily intended for physicists and engineers working in underwater acoustics and oceanic engineering It will also be of interest to marine biologists geophysicists and oceanographers as potential users of the methodologies and techniques described in the book contributions

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