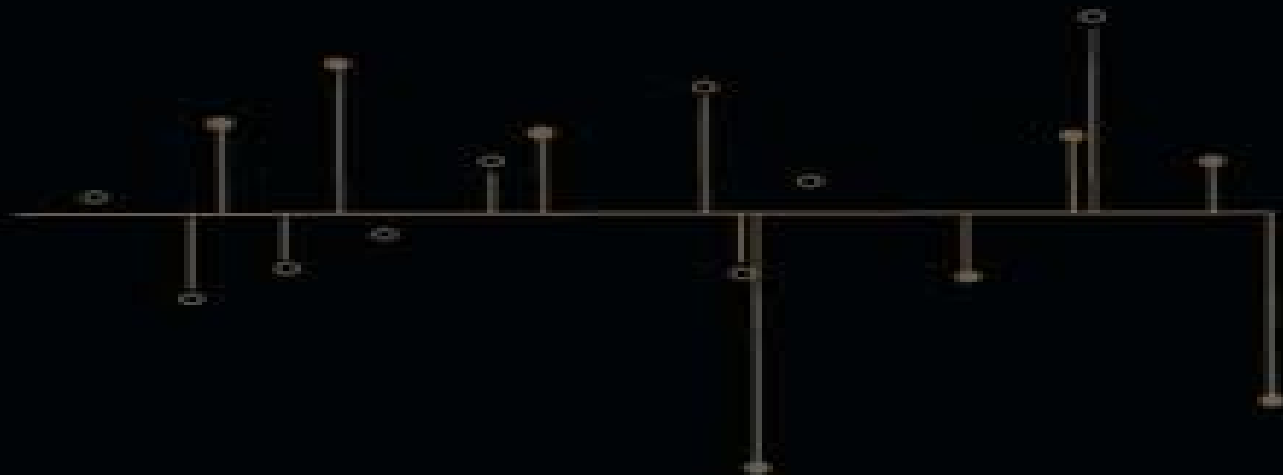


Optimal Seismic Deconvolution

*AN ESTIMATION-BASED
APPROACH*



Jerry M. Mendel

Optimal Seismic Deconvolution An Estimation Based Approach

Ferial El-Hawary



Optimal Seismic Deconvolution An Estimation Based Approach:

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

The Ocean Engineering Handbook Ferial El-Hawary, 2000-12-28 Compiled by an internationally acclaimed panel of experts this is the most complete reference of its kind It provides comprehensive coverage of important areas of the theory and practice of oceanic coastal engineering and technology The well organized text includes five major sections Marine Hydrodynamics and Vehicles Control Modeling Considerations Position Control Systems for Offshore Vessels Applications of Computational Intelligence in the Ocean's Environment and Fiber Optics in Oceanographic Applications Designed as a traditional handbook it offers a detailed look ocean engineering including thorough coverage of position control theory and implementation

Computation and Applied Mathematics, 2003

Ultrasonics International 87 Sam Stuart, 2013-09-17 Ultrasonics International 87 contains the Proceedings of the Ultrasonics International Conference and Exhibition held at London United Kingdom on July 1987 The conference discussed and reviewed some of the developments in the field of ultrasonics The compendium consists of over 150 contributed papers four invited papers and three plenary papers Topics discussed include generation of unipolar ultrasonic pulses by signal processing scattering of longitudinal waves by partially closed slots piezoelectric materials for ultrasonic transducers and measuring turbulent flow characteristics using a multi dimensional ultrasonic probe Fiber optic sensors medical imaging and inverse methods and laser generation of ultrasound are covered as well Physicians technicians researchers and physical scientists will find the book insightful

System Identification Lennart Ljung, 1998-12-29 The field's leading text now completely updated Modeling dynamical systems theory methodology and applications Lennart Ljung's System Identification Theory for the User is a complete coherent description of the theory methodology and practice of System Identification This completely revised Second Edition introduces subspace methods methods that utilize frequency domain data and general non

linear black box methods including neural networks and neuro fuzzy modeling The book contains many new computer based examples designed for Ljung s market leading software System Identification Toolbox for MATLAB Ljung combines careful mathematics a practical understanding of real world applications and extensive exercises He introduces both black box and tailor made models of linear as well as non linear systems and he describes principles properties and algorithms for a variety of identification techniques Nonparametric time domain and frequency domain methods Parameter estimation methods in a general prediction error setting Frequency domain data and frequency domain interpretations Asymptotic analysis of parameter estimates Linear regressions iterative search methods and other ways to compute estimates Recursive adaptive estimation techniques Ljung also presents detailed coverage of the key issues that can make or break system identification projects such as defining objectives designing experiments controlling the bias distribution of transfer function estimates and carefully validating the resulting models The first edition of System Identification has been the field s most widely cited reference for over a decade This new edition will be the new text of choice for anyone concerned with system identification theory and practice

Control and Dynamic Systems V38: Advances in Aeronautical Systems C.T.

Leonides,2012-12-02 Advances in Aeronautical Systems shows that real time simulation of aeronautical systems is fundamental in the analysis design and testing of today s increasingly complex aeronautical systems Perhaps more important is the fact that simulation including 3 D vision and motion simulation techniques is an essential element in pilot training for both commercial and military aircraft An essential characteristic of all modern aeronautical systems is their avionics system which is composed of many elements in particular sensor systems This book comprises eight chapters with the first focusing on aircraft automatic flight control system with model inversion The following chapters then discuss information systems for supporting design of complex human machine systems and formulation of a minimum variance deconvolution technique for compensation of pneumatic distortion in pressure sensing devices Other chapters cover synthesis and validation of feedback guidance laws for air to air interceptions multistep matrix integrators for real time simulation the role of image interpretation in tracking and guidance continuous time parameter estimation analysis via a limiting ordinary differential equation and in flight alignment of inertial navigation systems This book will be of interest to practitioners in the fields of engineering and aeronautics

Seismic Source Signature Estimation and Measurement Osman M. Osman,Enders A. Robinson,1996

Blind Equalization and System Identification Chong-Yung Chi,Chih-Chun Feng,Chii-Horng Chen,Ching-Yung Chen,2006-05-20 The absence of training signals from many kinds of transmission necessitates the widespread use of blind equalization and system identification There have been many algorithms developed for these purposes working with one or two dimensional signals and with single input single output or multiple input multiple output real or complex systems It is now time for a unified treatment of this subject pointing out the common characteristics of these algorithms as well as learning from their different perspectives Blind Equalization and System Identification provides such a unified treatment

presenting theory performance analysis simulation implementation and applications This is a textbook for graduate courses in discrete time random processes statistical signal processing and blind equalization and system identification It contains material which will also interest researchers and engineers working in digital communications source separation speech processing and other similar applications **Adaptive Systems in Control and Signal Processing 1989** T.S.

Durrani,D.H. Owens,M.A. Johnson,M.J. Grimble,2014-06-28 The Symposium covered three major areas adaptive control identification and signal processing In all three new developments were discussed covering both theoretical and applications research Within the subject area of adaptive control the discussion centred around the challenges of robust control design to unmodelled dynamics robust parameter estimation and enhanced performance from the estimator while the papers on identification took the theme of it being a bridge between adaptive control and signal processing The final area looked at two aspects of signal processing recursive estimation and adaptive filters **Seismic Inversion & Deconvolution:**

Dual-sensor technology Enders A. Robinson,1999 Hardbound The objective of seismic exploration is to delineate the subsurface structure of the earth A large variety of computer processing methods are available to transform the observed seismic data into a form that is more useful to the seismic interpreter An important subdivision of these methods comes under the heading Seismic Inversion and Deconvolution Most seismic data are recorded either by geophone that measures particle velocity or else by hydrophone that measures pressure A dual sensor incorporates both a geophone and a hydrophone so simultaneous measurements of both particle velocity and pressure are obtained Unprecedented improvements in inversion and deconvolution are made possible through the use of Dual Sensor Technology The purpose of Seismic Inversion and Deconvolution Part B Dual Sensor Technology is to provide the fundamentals of dual sensor technology Previous work together with new results are brought together *Identification and System Parameter Estimation* ,1989

Identification and System Parameter Estimation, 1985 H. A. Barker,Peter C. Young,1985 **Generalizing Minimum Variance Deconvolution** Todd Findley Brennan,1994 Wavelet parameter and phase estimation using cumulant slices Georgios B. Giannakis,1987 *Lessons in Digital Estimation Theory* Jerry M. Mendel,1987 *Proceedings of IEEE Workshop on Expert Systems and Pattern Analysis* Chi-hau Chen,1987 *First International Seminar & Exhibition on "Exploration Geophysics in Nineteen Nineties"*, 25-30 November 1991, Hyderabad, India ,1991 **Proceedings ... APCA Annual Meeting** Air Pollution Control Association. Annual Meeting,1988 **Hazardous Waste & Hazardous Materials** ,1989 Deconvolution 2 Enders A. Robinson,Osman M. Osman,1996

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