# PREDICTION AND REGULATION BY LINEAR LEAST-SQUARE METHODS

Peter Whittle

Foreword by Thomas J. Sargent



# **Prediction And Regulation By Linear Least Square Methods**

**Peter Whittle** 

#### **Prediction And Regulation By Linear Least Square Methods:**

**Prediction and Regulation by Linear Least-square Methods** Peter Whittle, 1983 Prediction and Regulation by Linear Least Square Methods was first published in 1963 This revised second edition was issued in 1983 Minnesota Archive Editions uses digital technology to make long unavailable books once again accessible and are published unaltered from the original University of Minnesota Press editions During the past two decades statistical theories of prediction and control have assumed an increasing importance in all fields of scientific research To understand a phenomenon is to be able to predict it and to influence it in predictable ways First published in 1963 and long out of print Prediction and Regulation by Linear Least Square Methods offers important tools for constructing models of dynamic phenomena This elegantly written book has been a basic reference for researchers in many applied sciences who seek practical information about the representation and manipulation of stationary stochastic processes Peter Whittle's text has a devoted group of readers and users especially among economists This edition contains the unchanged text of the original and adds new works by the author and a foreword Prediction and Regulation by Linear Least-Square Methods Peter Whittle, by economist Thomas J Sargent Methods for System Identification Tohru Katayama, 2005-10-11 An in depth introduction to subspace methods for system identification in discrete time linear systems thoroughly augmented with advanced and novel results this text is structured into three parts Part I deals with the mathematical preliminaries numerical linear algebra system theory stochastic processes and Kalman filtering Part II explains realization theory as applied to subspace identification Stochastic realization results based on spectral factorization and Riccati equations and on canonical correlation analysis for stationary processes are included Part III demonstrates the closed loop application of subspace identification methods Subspace Methods for System Identification is an excellent reference for researchers and a useful text for tutors and graduate students involved in control and signal processing courses It can be used for self study and will be of interest to applied scientists or engineers wishing to use advanced methods in modeling and identification of complex systems **Macroeconometrics and Time Series** Analysis Steven Durlauf, L. Blume, 2016-04-30 Specially selected from The New Palgrave Dictionary of Economics 2nd edition each article within this compendium covers the fundamental themes within the discipline and is written by a leading practitioner in the field A handy reference tool *Multivariate Time Series With Linear State Space Structure Victor* Gómez, 2016-05-09 This book presents a comprehensive study of multivariate time series with linear state space structure The emphasis is put on both the clarity of the theoretical concepts and on efficient algorithms for implementing the theory In particular it investigates the relationship between VARMA and state space models including canonical forms It also highlights the relationship between Wiener Kolmogorov and Kalman filtering both with an infinite and a finite sample The strength of the book also lies in the numerous algorithms included for state space models that take advantage of the recursive nature of the models Many of these algorithms can be made robust fast reliable and efficient The book is

accompanied by a MATLAB package called SSMMATLAB and a webpage presenting implemented algorithms with many examples and case studies Though it lays a solid theoretical foundation the book also focuses on practical application and includes exercises in each chapter It is intended for researchers and students working with linear state space models and who are familiar with linear algebra and possess some knowledge of statistics **Time Series Techniques for** Economists Terence C. Mills, 1990 The application of time series techniques in economics has become increasingly important both for forecasting purposes and in the empirical analysis of time series in general In this book Terence Mills not only brings together recent research at the frontiers of the subject but also analyses the areas of most importance to applied economics It is an up to date text which extends the basic techniques of analysis to cover the development of methods that can be used to analyse a wide range of economic problems The book analyses three basic areas of time series analysis univariate models multivariate models and non linear models In each case the basic theory is outlined and then extended to cover recent developments Particular emphasis is placed on applications of the theory to important areas of applied economics and on the computer software and programs needed to implement the techniques This book clearly distinguishes itself from its competitors by emphasising the techniques of time series modelling rather than technical aspects such as estimation and by the breadth of the models considered It features many detailed real world examples using a wide range of actual time series It will be useful to econometricians and specialists in forecasting and finance and accessible to most practitioners in economics and the allied professions Elements of Multivariate Time Series Analysis Gregory C. Reinsel, 2012-12-06 The use of methods of time series analysis in the study of multivariate time series has become of increased interest in recent years Although the methods are rather well developed and understood for univarjate time series analysis the situation is not so complete for the multivariate case This book is designed to introduce the basic concepts and methods that are useful in the analysis and modeling of multivariate time series with illustrations of these basic ideas The development includes both traditional topics such as autocovariance and auto correlation matrices of stationary processes properties of vector ARMA models forecasting ARMA processes least squares and maximum likelihood estimation techniques for vector AR and ARMA models and model checking diagnostics for residuals as well as topics of more recent interest for vector ARMA models such as reduced rank structure structural indices scalar component models canonical correlation analyses for vector time series multivariate unit root models and cointegration structure and state space models and Kalman filtering techniques and applications This book concentrates on the time domain analysis of multivariate time series and the important subject of spectral analysis is not considered here For that topic the reader is referred to the excellent books by Jenkins and Watts 1968 Hannan 1970 Priestley 1981 and others Robustness Lars Peter Hansen, Thomas J. Sargent, 2016-06-28 The standard theory of decision making under uncertainty advises the decision maker to form a statistical model linking outcomes to decisions and then to choose the optimal distribution of outcomes This assumes that the

decision maker trusts the model completely But what should a decision maker do if the model cannot be trusted Lars Hansen and Thomas Sargent two leading macroeconomists push the field forward as they set about answering this question They adapt robust control techniques and apply them to economics By using this theory to let decision makers acknowledge misspecification in economic modeling the authors develop applications to a variety of problems in dynamic macroeconomics Technical rigorous and self contained this book will be useful for macroeconomists who seek to improve the robustness of decision making processes Kernel Adaptive Filtering Weifeng Liu, José C. Principe, Simon Haykin, 2011-09-20 Online learning from a signal processing perspective There is increased interest in kernel learning algorithms in neural networks and a growing need for nonlinear adaptive algorithms in advanced signal processing communications and controls Kernel Adaptive Filtering is the first book to present a comprehensive unifying introduction to online learning algorithms in reproducing kernel Hilbert spaces Based on research being conducted in the Computational Neuro Engineering Laboratory at the University of Florida and in the Cognitive Systems Laboratory at McMaster University Ontario Canada this unique resource elevates the adaptive filtering theory to a new level presenting a new design methodology of nonlinear adaptive filters Covers the kernel least mean squares algorithm kernel affine projection algorithms the kernel recursive least squares algorithm the theory of Gaussian process regression and the extended kernel recursive least squares algorithm Presents a powerful model selection method called maximum marginal likelihood Addresses the principal bottleneck of kernel adaptive filters their growing structure Features twelve computer oriented experiments to reinforce the concepts with MATLAB codes downloadable from the authors Web site Concludes each chapter with a summary of the state of the art and potential future directions for original research Kernel Adaptive Filtering is ideal for engineers computer scientists and graduate students interested in nonlinear adaptive systems for online applications applications where the data stream arrives one sample at a time and incremental optimal solutions are desirable It is also a useful guide for those who look for nonlinear adaptive filtering methodologies to solve practical problems Hands-on Intermediate Econometrics Using R: Templates For Extending Dozens Of Practical Examples (With Cd-rom) Hrishikesh D Vinod, 2008-10-30 This book explains how to use R software to teach econometrics by providing interesting examples using actual data applied to important policy issues It helps readers choose the best method from a wide array of tools and packages available The data used in the examples along with R program snippets illustrate the economic theory and sophisticated statistical methods extending the usual regression The R program snippets are not merely given as black boxes but include detailed comments which help the reader better understand the software steps and use them as templates for possible extension and modification Games, Economic **Dynamics, and Time Series Analysis** XY. Deistler, XY. Fürst, XY. Schwödlauer, 2013-12-14 **Palgrave Handbook of Econometrics** Terence C. Mills, Kerry Patterson, 2009-06-25 Following theseminal Palgrave Handbook of Econometrics Volume I this second volume brings together the finestacademicsworking in econometrics today and explores applied

econometrics containing contributions onsubjects includinggrowth development econometrics and applied econometrics and New Economics and Its History John Bryan Davis, 1997 The HOPE Supplement contains the proceedings of the computing History of Political Economy Conference held at Duke in April 1996 The conference and the volume are devoted to the history of economic thought of recent on going economics Traditionally historian **Probability in Economics** Omar Hamouda, Robin Rowley, 2013-04-15 Notions of probability and uncertainty have been increasingly prominant in modern economics This book considers the philosophical and practical difficulties inherent in integrating these concepts into realistic economic situations It outlines and evaluates the major developments indicating where further work is needed This book addresses probability utility and rationality within current economic thought and practice concepts of ignorance and indeterminancy experimental economics econometrics with particular reference inference and estimation Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974 Studies in Mathematical Statistics I∏U∏riĭ Vladimirovich Linnik, 1971 Papers and articles about mathematical statistics Business Cycles Francis X. Diebold, Glenn D. Rudebusch, 2020-10-06 This is the most sophisticated and up to date econometric analysis of business cycles now available Francis Diebold and Glenn Rudebusch have long been acknowledged as leading experts on business cycles And here they present a highly integrative collection of their most important essays on the subject along with a detailed introduction that draws together the book s principal themes and findings Diebold and Rudebusch use the latest quantitative methods to address five principal questions about the measurement modeling and forecasting of business cycles They ask whether business cycles have become more moderate in the postwar period concluding that recessions have in fact been shorter and shallower They consider whether economic expansions and contractions tend to die of old age Contrary to popular wisdom they find little evidence that expansions become more fragile the longer they last although they do find that contractions are increasingly likely to end as they age The authors discuss the defining characteristics of business cycles focusing on how economic variables move together and on the timing of the slow alternation between expansions and contractions They explore the difficulties of distinguishing between long term trends in the economy and cyclical fluctuations And they examine how business cycles can be forecast looking in particular at how to predict turning points in cycles rather than merely the level of future economic activity. They show here that the index of leading economic indicators is a poor predictor of future economic activity and consider what we can learn from other indicators such as financial variables Throughout the authors make use of a variety of advanced econometric techniques including nonparametric analysis fractional integration and regime switching models Business Cycles is crucial reading for policymakers bankers and business executives

<u>Simulation-based Inference in Econometrics</u> Roberto Mariano,Til Schuermann,Melvyn J. Weeks,2000-07-20 This substantial volume has two principal objectives First it provides an overview of the statistical foundations of Simulation based

inference This includes the summary and synthesis of the many concepts and results extant in the theoretical literature the different classes of problems and estimators the asymptotic properties of these estimators as well as descriptions of the different simulators in use Second the volume provides empirical and operational examples of SBI methods Often what is missing even in existing applied papers are operational issues Which simulator works best for which problem and why This volume will explicitly address the important numerical and computational issues in SBI which are not covered comprehensively in the existing literature Examples of such issues are comparisons with existing tractable methods number of replications needed for robust results choice of instruments simulation noise and bias as well as efficiency loss in practice

**Identification in Dynamic Shock-Error Models** A. Maravall,2012-12-06 Looking at a very simple example of an error in variables model I was surprised at the effect that standard dynamic features in the form of autocorre 11 lation in the variables could have on the state of identification of the model It became apparent that identification of error in variables models was less of a problem when some dynamic features were present and that the cathegory of pre determined variables was meaningless since lagged endogenous and truly exogenous variables had very different identification properties Also for the models I was considering both necessary and sufficient conditions for identification could be expressed as simple counting rules trivial to compute These results seemed somewhat striking in the context of traditional econometrics literature and p vided the original motivation for this monograph The monograph therefore atempts to analyze econometric identification of models when the variables are measured with error and when dynamic features are present In trying to generalize the examples I was considering although the final results had very simple expressions the process of formally proving them became cumbersome and lengthy in particular for the sufficiency part of the proofs Possibly this was also due to a lack of more high powered analytical tools and or more elegant derivations for which I feel an apology coul be appropriate With some minor modifications this monograph is a Ph D dissertation presented to the Department of Economics of the University of Wisconsin Madison Thanks are due to Dennis J Aigner and Arthur S **Notes on Economic Time Series** Analysis: System Theoretic Perspectives Masanao Aoki, 2012-12-06 In seminars and graduate level courses I have had several opportunities to discuss modeling and analysis of time series with economists and economic graduate students during the past several years These experiences made me aware of a gap between what economic graduate students are taught about vector valued time series and what is available in recent system literature Wishing to fill or narrow the gap that I suspect is more widely spread than my personal experiences indicate I have written these notes to augment and reor ganize materials I have given in these courses and seminars I have endeavored to present in as much a self contained way as practicable a body of results and techniques in system theory that I judge to be relevant and useful to economists interested in using time series in their research I have essentially acted as an intermediary and interpreter of system theoretic results and perspectives in time series by filtering out non essential details and presenting coherent accounts of what I deem to be

important but not readily available or accessible to economists For this reason I have excluded from the notes many results on various estimation methods or their statistical properties because they are amply discussed in many standard texts on time series or on statistics

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