THOMAS J. ROTHENBERG

Efficient Estimation with A Priori Information

Efficient Estimation With A Priori Information

Judd E. Hollander

Efficient Estimation With A Priori Information:

    Efficient Estimation with a Priori Information Thomas J. Rothenberg,1966   <u>Efficient Estimation with a Priori Information</u> Thomas J. Rothenberg,1973   <u>Identification and Inference for Econometric Models</u> Donald W. K. Andrews,James H. Stock,2005-07-04 This 2005 volume contains the papers presented in honor of the lifelong achievements of Thomas J Rothenberg on the occasion of his retirement The authors of the chapters include many of the leading econometricians of our day and the chapters address topics of current research significance in econometric theory The chapters cover four themes identification and efficient estimation in econometrics asymptotic approximations to the distributions of econometric estimators and tests inference involving potentially nonstationary time series such as processes that might have a unit autoregressive root and nonparametric and semiparametric inference Several of the chapters provide overviews and treatments of basic conceptual issues while others advance our understanding of the properties of existing econometric procedures and or propose others Specific topics include identification in nonlinear models inference with weak instruments tests for nonstationary in time series and panel data generalized empirical likelihood estimation and the bootstrap   <u>Efficient Estimation of Vector Autoregressions Under the Rational Expectation, Efficient Market Hypothesis</u> Richard Baillie,Peter Schmidt,1983   **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   *Aggregate Money Demand Functions* Dennis L. Hoffman,Robert H. Rasche,2012-12-06 The econometric consequences of nonstationary data have wide ranging im plications for empirical research in economics Specifically these issues have implications for the study of empirical relations such as a money demand func tion that links macroeconomic aggregates real money balances real income and a nominal interest rate Traditional monetary theory predicts that these nonsta tionary series form a cointegrating relation and accordingly that the dynamics of a vector process comprised of these variables generates distinct patterns Re cent econometric developments designed to cope with nonstationarities have changed the course of empirical research in the area but many fundamental challenges for example the issue of identification remain This book represents the efforts undertaken by the authors in recent years in an effort to determine the consequences that nonstationarity has for the study of aggregate money demand relations We have brought together an empirical methodology that we find useful in conducting empirical research Some of the work was undertaken during the authors sabbatical periods and we wish to acknowledge the generous support of Arizona State University and Michigan State University respectively Professor Hoffman wishes to acknowledge the support of the Fulbright

Hays Foundation that supported sabbattical research in Europe and separate support of the Council of 100 Summer Research Program at Arizona State University   Statistical Foundations of Econometric Modelling Aris Spanos,1986-10-30 A thorough foundation in probability theory and statistical inference provides an introduction to the underlying theory of econometrics that motivates the student at a intuitive as well as a formal level   **Topics in Structural VAR Econometrics** Gianni Amisano,Carlo Giannini,2012-12-06 In recent years a growing interest in the structural V AR approach SV AR has followed the path breaking works by Blanchard and Watson 1986 Bernanke 1986 and Sims 1986 especially in the U S applied macroeconometric literature The approach can be used in two different partially overlapping directions the interpretation of business cycle fluctuations of a small number of significant macroeconomic variables and the identification of the effects of different policies SV AR literature shows a common feature the attempt to organise in a structural theoretical sense instantaneous correlations among the relevant variables In non structural V AR modelling instead correlations are normally hidden in the variance covariance matrix of the V AR model innovations of independent V AR analysis tries to isolate identify a set shocks by means of a number of meaningful theoretical restrictions The shocks can be regarded as the ultimate source of stochastic variation of the vector of variables which can all be seen as potentially endogenous Looking at the development of SV AR literature we felt that it still lacked a formal general framework which could embrace the several types of models so far proposed for identification and estimation This is the second edition of the book which originally appeared as number 381 of the Springer series Lecture notes in Economics of the first edition was Carlo and Mathematical Systems The author Giannini   **Time Series Analysis** James D. Hamilton,2020-09-01 An authoritative self contained overview of time series analysis for students and researchers The past decade has brought dramatic changes in the way that researchers analyze economic and financial time series This textbook synthesizes these advances and makes them accessible to first year graduate students James Hamilton provides comprehensive treatments of important innovations such as vector autoregressions generalized method of moments the economic and statistical consequences of unit roots time varying variances and nonlinear time series models In addition he presents basic tools for analyzing dynamic systems including linear representations autocovariance generating functions spectral analysis and the Kalman filter in a way that integrates economic theory with the practical difficulties of analyzing and interpreting real world data Time Series Analysis fills an important need for a textbook that integrates economic theory econometrics and new results This invaluable book starts from first principles and should be readily accessible to any beginning graduate student while it is also intended to serve as a reference book for researchers   **Misspecification Tests in Econometrics** L. G. Godfrey,1988 Misspecification tests play an important role in detecting unreliable and inadequate economic models This book brings together many results from the growing literature in econometrics on misspecification testing It provides theoretical analyses and convenient methods for application The main emphasis is on the Lagrange multiplier principle which provides considerable unification although

several other approaches are also considered The author also examines general checks for model adequacy that do not involve formulation of an alternative hypothesis General and specific tests are discussed in the context of multiple regression models systems of simultaneous equations and models with qualitative or limited dependent variables **Computational Methods for Applied Inverse Problems** Yanfei Wang,Anatoly G. Yagola,Changchun Yang,2012-10-30 Nowadays inverse problems and applications in science and engineering represent an extremely active research field The subjects are related to mathematics physics geophysics geochemistry oceanography geography and remote sensing astronomy biomedicine and other areas of applications This monograph reports recent advances of inversion theory and recent developments with practical applications in frontiers of sciences especially inverse design and novel computational methods for inverse problems The practical applications include inverse scattering chemistry molecular spectra data processing quantitative remote sensing inversion seismic imaging oceanography and astronomical imaging The book serves as a reference book and readers who do research in applied mathematics engineering geophysics biomedicine image processing remote sensing and environmental science will benefit from the contents since the book incorporates a background of using statistical and non statistical methods e g regularization and optimization techniques for solving practical inverse problems *Chinese Global Production Networks in ASEAN* Young-Chan Kim,2015-12-11 This volume examines the role of Chinese businesses and industries in Asian production networks By presenting different case studies of the Asian region the contributors illustrate how China successfully exports the Chinese business model based on Chinese ethics social networks and production integration The contributors also discuss topics such as the implications and ramifications of global product sharing within Asia the prospects of free trade agreements in Asia the economic advantages of Chinese family lineage and Guanxi an influential Chinese network collaboration of overseas Chinese with mainland Chinese as well as direct Chinese business involvement and investment in other Asian countries Causal Models in the Social Sciences Jr. Blalock,2017-07-28 Causal models are formal theories stating the relationships between precisely defined variables and have become an indispensable tool of the social scientist This collection of articles is a course book on the causal modeling approach to theory construction and data analysis H M Blalock Jr summarizes the then current developments in causal model utilization in sociology political science economics and other disciplines This book provides a comprehensive multidisciplinary picture of the work on causal models It seeks to address the problem of measurement in the social sciences and to link theory and research through the development of causal models Organized into five sections Simple Recursive Models Path Analysis Simultaneous Equations Techniques The Causal Approach to Measurement Error and Other Complications this volume contains twenty seven articles eight of which were specially commissioned Each section begins with an introduction explaining the concepts to be covered in the section and links them to the larger subject It provides a general overview of the theory and application of causal modeling Blalock argues for the development of theoretical models that can be operationalized and provide verifiable

predictions Many of the discussions of this subject that occur in other literature are too technical for most social scientists and other scholars who lack a strong background in mathematics This book attempts to integrate a few of the less technical papers written by econometricians such as Koopmans Wold Strotz and Fisher with discussions of causal approaches in the social and biological sciences This classic text by Blalock is a valuable source of material for those interested in the issue of measurement in the social sciences and the construction of mathematical models **Agricultural Productivity** Virgil Ball,2012-12-06 Agricultural Productivity Measurement and Sources of Growth addresses measurement issues and techniques in agricultural productivity analysis applying those techniques to recently published data sets for American agriculture The data sets are used to estimate and explain state level productivity and efficiency differences and to test different approaches to productivity measurement The rise in agricultural productivity is the single most important source of economic growth in the U S farm sector and the rate of productivity growth is estimated to be higher in agriculture than in the non farm sector It is important to understand productivity sources and to measure its growth properly including the effects of environmental externalities Both the methods and the data can be accessed by economists at the state level to conduct analyses for their own states In a sense although not explicitly the book provides a guide to using the productivity data available on the website of the U S Department of Agriculture Economic Research Service It should be of interest to a broad spectrum of professionals in academia the government and the private sector **Causal Models in the Social Sciences** Hubert M. Blalock,1985 Causal models are formal theories stating the relationships between precisely defined variables and have become an indispensable tool of the social scientist This book draws upon the best writing in a variety of fields to provide a comprehensive picture of contemporary work on this subject This collection of articles stands alone as a course book on the causal modeling approach to theory construction and data analysis There is a growing literature on causal models and structural systems of equations that crosscuts a number of different fields However much of this material remains widely scattered throughout the journal literature and varies considerably in terms of both level of difficulty and substantive application This classic text by Blalock addresses and resolves this concern The most systematic discussions of this general approach have appeared in the econometrics literature where several general texts are available However many of these discussions are too technical for most sociologists political scientists scholars and researchers who lack a strong background in mathematics This book attempts to integrate a few of the less technical papers written by econometricians such as Koopmans Wold Strotz and Fisher with discussions of causal approaches in the biological sciences and with relatively more exploratory treatments by sociologists and other social scientists *Advanced Econometric Methods* Thomas B. Fomby,R. Carter Hill,Stanley R. Johnson,2012-12-06 This book had its conception in 1975in a friendly tavern near the School of Businessand PublicAdministration at the UniversityofMissouri Columbia Two of the authors Fomby and Hill were graduate students of the third Johnson and were and are concerned about teaching econometrics effectively at the graduate level We

decided then to write a book to serve as a comprehensive text for graduate econometrics Generally the material included in the book and its organization have been governed by the question How could the subject be best presented in a graduate class For content this has meant that we have tried to cover all the bases and yet have not attempted to be encyclopedic The intended purpose has also affected the level of mathematical rigor We have tended to prove only those results that are basic and or relatively straightforward Proofs that would demand inordinant amounts of class time have simply been referenced The book is intended for a two semester course and paced to admit more extensive treatment of areas of specific interest to the instructor and students We have great confidence in the ability industry and persistence of graduate students in ferreting out and understanding the omitted proofs and results In the end this is how one gains maturity and a fuller appreciation for the subject in any case It is assumed that the readers of the book will have had an econometric methods course using texts like J Johnston s Econometric Methods 2nd ed **Rational expectations and econometric practice. 1** Robert E. Lucas,Thomas J. Sargent,1981 Rational Expectations and Econometric Practice was first published in 1981 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 Assumptions about how people form expectations for the future shape the properties of any dynamic economic model To make economic decisions in an uncertain environment people must forecast such variables as future rates of inflation tax rates government subsidy schemes and regulations The doctrine of rational expectations uses standard economic methods to explain how those expectations are formed This work collects the papers that have made significant contributions to formulating the idea of rational expectations Most of the papers deal with the connections between observed economic behavior and the evaluation of alternative economic policies Robert E Lucas Jr is professor of economics at the University of Chicago Thomas J Sargent is professor of economics at the University of Minnesota and adviser to the Federal Reserve Bank of Minnesota **Estimation, Inference and Specification Analysis** Halbert White,1996-06-28 This book examines the consequences of misspecifications for the interpretation of likelihood based methods of statistical estimation and interference The analysis concludes with an examination of methods by which the possibility of misspecification can be empirically investigated **A Guide to Econometrics** Peter Kennedy,2008-02-19 This is the perfect and essential supplement for all econometrics classes from a rigorous first undergraduate course to a first master s to a PhD course Explains what is going on in textbooks full of proofs and formulas Offers intuition skepticism insights humor and practical advice dos and don ts Contains new chapters that cover instrumental variables and computational considerations Includes additional information on GMM nonparametrics and an introduction to wavelets

Testing Exogeneity Neil R. Ericsson,John S. Irons,1994 This book discusses the nature of exogeneity a central concept in econometrics and shows how to test for it through numerous substantive empirical examples Part I considers what exogeneity is and how it can be tested Part II contains applications to models of expenditure money demand inflation wages

and prices and exchange rates across both developed and developing countries Part III extends various tests of constancy and forecast accuracy which are central to testing super exogeneity The papers forming the core of this book from two special issues of the Journal of Policy Modeling provide a unique and unified perspective on applied econometric modelling in general and on exogeneity tests in particular The applications are substantive and diverse with a broad appeal to the applied economist Contributors H Ahumada G Bardsen J Campos M Deutsch R F Engle Neil R Ericsson C W J Granger B E Hansen David F Hendry J Hunter S Johansen K Juselius R Numoen Jean Francois Richard

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Table of Contents Efficient Estimation With A Priori Information

1. Understanding the eBook Efficient Estimation With A Priori Information
    - The Rise of Digital Reading Efficient Estimation With A Priori Information
    - Advantages of eBooks Over Traditional Books
2. Identifying Efficient Estimation With A Priori Information
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Efficient Estimation With A Priori Information
    - User-Friendly Interface
4. Exploring eBook Recommendations from Efficient Estimation With A Priori Information
    - Personalized Recommendations
    - Efficient Estimation With A Priori Information User Reviews and Ratings

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