

# PROBLEMS AND SOLUTIONS

## PROBLEMS

02.3.1. *Regression with an Evaporating Logarithmic Trend*, proposed by P.C.B. Phillips and Y. Sun.

Part A. The time series  $X_t$  is generated by the model

$$X_t = \alpha + \frac{\beta}{\ln t} + u_t, \quad t = 2, \dots, n \quad (1)$$

where  $\alpha$  and  $\beta$  are unknown parameters whose least squares regression estimates are denoted by  $\hat{\alpha}$  and  $\hat{\beta}$ , respectively. The error  $u_t$  in (1) is assumed to be *iid*  $(0, \sigma^2)$  with finite fourth moment.

1. Show that  $\hat{\alpha}$  and  $\hat{\beta}$  are strongly consistent for  $\alpha$  and  $\beta$  as  $n \rightarrow \infty$ .
2. Find the asymptotic distribution of  $\hat{\alpha}$  and  $\hat{\beta}$ .

Part B. Suppose that  $u_t$  in (1) is the linear process

$$u_t = \sum_{i=0}^{\infty} c_i \varepsilon_{t-i}, \quad \text{with } \sum_{j=0}^{\infty} j |c_j| < \infty \quad (2)$$

and where  $\varepsilon_t$  is *iid*  $(0, \sigma^2)$  with finite fourth moment. Explain how you would modify your derivations in Part A to allow for such an error process in the regression model (1).

02.3.2. *Badly Weighted Least Squares*, proposed by R. Koenker and S. Portnoy.

Consider the classical linear regression model

$$y_i = x_i' \beta + u_i$$

with  $V(u_i) = \sigma_i^2 > 0$ ,  $u_i$  independent over  $i = 1, 2, \dots, n$ , and  $X = (x_i')_{i=1}^n$  of full column rank  $p$ .

Let  $\Omega = \text{diag}(\sigma_1, \dots, \sigma_n)$  and assume  $\sigma_i \neq \sigma_j$  for some  $i \neq j$ . The asymptotic covariance matrix of the weighted least squares estimator

$$\hat{\beta}(a) = (X' \Omega^{-2a} X)^{-1} X' \Omega^{-2a} y$$

is the Eicker–White matrix,  $(X' X)^{-1} X' \Omega^2 X (X' X)^{-1}$  for  $a = 0$ , whereas for  $a = 1$  we have  $(X' \Omega^{-2} X)^{-1}$ . For  $a = \frac{1}{2}$  we obtain an expression for the asymptotic covariance matrix of the median regression estimator.

# Econometric Techniques And Problems

**JG Myers**



## **Econometric Techniques And Problems:**

**Econometric techniques and problems** Conrad Emanuel Victor Leser, Econometric techniques and problems Conrad E. Leser,1820 *Econometric Techniques and Problems* C.E.V. Leser,1969 **Bayesian Econometric Methods** Joshua Chan,Gary Koop,Dale J. Poirier,Justin L. Tobias,2019-08-15 Bayesian Econometric Methods examines principles of Bayesian inference by posing a series of theoretical and applied questions and providing detailed solutions to those questions This second edition adds extensive coverage of models popular in finance and macroeconomics including state space and unobserved components models stochastic volatility models ARCH GARCH and vector autoregressive models The authors have also added many new exercises related to Gibbs sampling and Markov Chain Monte Carlo MCMC methods The text includes regression based and hierarchical specifications models based upon latent variable representations and mixture and time series specifications MCMC methods are discussed and illustrated in detail from introductory applications to those at the current research frontier and MATLAB computer programs are provided on the website accompanying the text Suitable for graduate study in economics the text should also be of interest to students studying statistics finance marketing and agricultural economics **Econometric Analysis** Sharif Hossain,2024-02-08 For the last four decades the uses of econometric tools and techniques irrespective of discipline have been increasing rapidly for solving problems appropriate decision making and policy formulation Generally it is accepted that the study of modern business and economics is incomplete without a proper knowledge of econometric tools and techniques In view of the increasing complexity and variety of problems in business and economics students and researchers may not be able to cope and hence may remain unfamiliar with many aspects of business and economic problems Thus this book was written to explore basic and advanced studies of econometrics for undergraduate and graduate students of business and economics as well as for researchers already engaged in these fields who require an introduction to econometric methods and their application for solving of real life problems The book offers a balanced presentation of fundamental and advanced levels of econometric concepts and methods along with practical examples of their effective application in real life problems **Econometrics** John Eatwell,Murray Milgate,Peter Newman,1990-02-23 This is an excerpt from the 4 volume dictionary of economics a reference book which aims to define the subject of economics today 1300 subject entries in the complete work cover the broad themes of economic theory This extract concentrates on econometrics **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 *A Guide to Basic Econometric Techniques* Elia Kacapyr,2014-04-22 This economical text is intended for use as a universal supplement to

introductory econometrics courses This edition contains two new chapters on economic forecasting Extensive online supplements include teaching PowerPoints solutions to test questions problems new instructor questions and software programs with data to download

**Econometrics for Financial Applications** Ly H. Anh, Le Si Dong, Vladik Kreinovich, Nguyen Ngoc Thach, 2017-12-18 This book addresses both theoretical developments in and practical applications of econometric techniques to finance related problems It includes selected edited outcomes of the International Econometric Conference of Vietnam ECONVN2018 held at Banking University Ho Chi Minh City Vietnam on January 15 16 2018

Econometrics is a branch of economics that uses mathematical especially statistical methods to analyze economic systems to forecast economic and financial dynamics and to develop strategies for achieving desirable economic performance An extremely important part of economics is finances a financial crisis can bring the whole economy to a standstill and vice versa a smart financial policy can dramatically boost economic development It is therefore crucial to be able to apply mathematical techniques of econometrics to financial problems Such applications are a growing field with many interesting results and an even larger number of challenges and open problems

**Microbehavioral Econometric Methods** S. Niggol Seo, 2016-06-07 Microbehavioral Econometric Methods and Environmental Studies uses microeconomic methods to model the behavior of individuals then demonstrates the modelling approaches in addressing policy needs It links theory and methods with applications and it incorporates data to connect individual choices and global environmental issues This extension of traditional environmental economics presents modeling strategies and methodological techniques then applies them to hands on examples Throughout the book readers can access chapter summaries problem sets multiple household survey data with regard to agricultural and natural resources in Sub Saharan Africa South America and India and empirical results and solutions from the SAS software Emphasizes ways that choices and outcomes are modelled simultaneously Illuminates relationships between micro decisions and global environmental systems Uses software and cases in analyzing environmental policy issues Links microeconomic models to applications in environmental economics and thereby connects individual choices with global environmental issues

**A Practical Introduction to Econometric Methods** Patrick K. Watson, Sonja S. Teelucksingh, 2002 The text is aimed at final year undergraduate students or those at the graduate level doing econometrics for the first time It is an introductory course in the theory and practice of classical and modern econometric methods A proper study of the material will allow the reader to Understand the scope and limitations of classical and modern econometric techniques Read write and properly interpret articles and reports of an applied econometric nature Build upon the elements of econometric theory and practice introduced in the book Although some basic knowledge of matrix algebra and elementary statistical theory will be assumed much of it is covered in the body of the text All the main theoretical concepts are illustrated with the use of econometric software mainly EViews

**Econometrics** Samir Ganaka, 2025-02-20 Econometrics The Essentials takes you on an engaging journey through the world of econometrics

designed to demystify this complex field In a world where economic decisions shape our daily lives understanding the interplay between economic theories and statistical methods is crucial This book crafted for a diverse global audience with a focus on the United States serves as your guide through the landscape of econometrics We present the subject in everyday language making it accessible to both newcomers and seasoned practitioners Econometrics is more than numbers it s about uncovering the stories behind economic phenomena understanding the drivers of our economies and helping readers make sense of the complex web of data The book emphasizes the global relevance of econometric principles while offering insights into the U S economic landscape We explore the impact of fiscal policies financial markets and other economic intricacies Practical concepts such as regression analyses instrumental variables and Two Stage Least Squares Estimation are grounded in relatable scenarios and real world applications Our human centric approach recognizes that behind every data point is a story involving individuals and communities We illustrate how econometric techniques address pressing issues from unemployment dynamics to the effectiveness of social programs Econometrics The Essentials equips readers with the skills to navigate econometrics fostering a deeper understanding of the empirical realities shaping our world Whether you re a policymaker economist researcher or curious mind this book empowers you with the knowledge and tools to unravel the mysteries of econometrics

*Econometric Methods* John Johnston,1963 Specification, Estimation, and Analysis of Macroeconometric Models Ray C. Fair,1984 This book gives a practical applications oriented account of the latest techniques for estimating and analyzing large nonlinear macroeconomic models Ray Fair demonstrates the application of these techniques in a detailed presentation of several actual models including his United States model his multicountry model Sargent s classical macroeconomic model autoregressive and vector autoregressive models and a small twelve equation linear structural model He devotes a good deal of attention to the difficult and often neglected problem of moving from theoretical to econometric models In addition he provides an extensive discussion of optimal control techniques and methods for estimating and analyzing rational expectations models A computer program that handles all the techniques in the book is available from the author making it possible to use the techniques with little additional programming The book presents the logic of this program A smaller program for personal microcomputers for analysis of Fair s United States model is available from Urban Systems Research Engineering Inc Anyone wanting to learn how to use large macroeconomic models including researchers graduate students economic forecasters and people in business and government both in the United States and abroad will find this an essential guidebook

**Handbook of Econometrics** Zvi Griliches,Michael D. Intriligator,1983 The Handbook is a definitive reference source and teaching aid for econometricians It examines models estimation theory data analysis and field applications in econometrics Comprehensive surveys written by experts discuss recent developments at a level suitable for professional use by economists econometricians statisticians and in advanced graduate econometrics courses

**Specifying and Diagnostically Testing Econometric Models** Houston H. Stokes,1991 This volume discusses

and illustrates with output from actual problems a number of applied econometric techniques Among the specific techniques covered are OLS specification tests recursive residual analysis limited dependent variable models error component models time series models and optimal control analysis For each the author outlines the basic mathematical models involved discusses and estimates a sample problem using the B34S Data Analysis System he developed to facilitate the calculations displays and evaluates the output of the program and explores follow up models The examples selected are taken from a variety of sources and reflect actual applied research All results are completely documented in the text so that the reader does not need access to the B34S program in order to use the book effectively Bayesian Econometrics Siddhartha

Chib,William Griffiths,2008-12-18 Illustrates the scope and diversity of modern applications reviews advances and highlights many desirable aspects of inference and computations This work presents an historical overview that describes key contributions to development and makes predictions for future directions **Econometrics of Money and Happiness in**

**India** T. Lakshmanasamy,2023-01-01 This book quantitatively analyses the puzzle between money and happiness in India both at individual and aggregate levels and at cross section time series and panel levels The relevance of the Easterlin Paradox a positive income happiness relationship at a point in time but a lack association between income and life satisfaction at the aggregate level and over time and hence economic growth does not improve the human lot is evaluated Using data for a long period of 24 years over 1990 to 2014 from the World Values Surveys the cross country analysis of the happiness literature is replicated with cross states analysis applying robust econometric techniques The effects of individual absolute income variously defined relative income measures NSDP per capita social comparison social capital and income inequality on individual average and aggregate happiness and life satisfaction levels across states and over time are examined The rigorous econometric results validate the Easterlin Paradox in India in that there is no long run happiness gain from the income growth and the income effects are not the same for all as the middle income groups do not gain in happiness from the rising average income Whatever short run gain in happiness is erased in the long run partially by the declining social capital and rising income inequality **Recent Econometric Techniques for Macroeconomic and Financial Data**

Gilles Dufrénot,Takashi Matsuki,2020-11-21 The book provides a comprehensive overview of the latest econometric methods for studying the dynamics of macroeconomic and financial time series It examines alternative methodological approaches and concepts including quantile spectra and co spectra and explores topics such as non linear and non stationary behavior stochastic volatility models and the econometrics of commodity markets and globalization Furthermore it demonstrates the application of recent techniques in various fields in the frequency domain in the analysis of persistent dynamics in the estimation of state space models and new classes of volatility models The book is divided into two parts The first part applies econometrics to the field of macroeconomics discussing trend cycle decomposition growth analysis monetary policy and international trade The second part applies econometrics to a wide range of topics in financial economics including price

dynamics in equity commodity and foreign exchange markets and portfolio analysis The book is essential reading for scholars students and practitioners in government and financial institutions interested in applying recent econometric time series methods to financial and economic data      **Technical Bulletin** ,1995

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