

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 α and β 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 α and β 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 ε_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

C.E.V. Leser



Econometric Techniques And Problems:

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Conrad E. Leser,1820 *Econometric Techniques and Problems* C.E.V. Leser,1969 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
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and their application for solving of real life problems The book offers a balanced presentation of fundamental and advanced
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Econometrics John Eatwell,Murray Milgate,Peter Newman,1990-02-23 This is an excerpt from the 4 volume dictionary of
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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 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

Econometric Methods John Johnston, 1963 **Selected Papers Of Lawrence R Klein: Theoretical Reflections And Econometric Applications** Kanta Marwah, 1997-06-01 This volume contains selected papers of Lawrence R Klein in economics econometric theory and applications in modeling forecasting macroeconomic analysis international economics and public policy Nobel Laureate Lawrence Klein s bibliography spans a half century including books articles and chapters in conference proceedings festschriften and thematic books One such volume of solely scientific collections mainly from his relatively early articles has already been published The present volume is different it includes some articles but largely chapters or book excerpts that were mostly written since 1980 the approximate cut off date of the prior volume and the year of his Nobel Prize Also it includes things that were published in very limited or obscure editions Thus it provides a more complete picture of his scholarly career and his current reflections on the state of economic science All these writings are in

the vanguard of thinking about economics in a global domain The thirty five plus selections are organized in five parts by major themes An editorial commentary introduces each part The introductory chapters include Klein s autobiographical research commentary and his professional life philosophy *Advanced Econometric Methods* Thomas B. Fomby, R. Carter Hill, Stanley R. Johnson, 2012-12-06 This book had its conception in 1975 in a friendly tavern near the School of Business and Public Administration at the University of Missouri 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 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

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

Putting Econometrics in Its Place G. M. P. Swann, 2006-01-01 I consider the book as well suited to provide a broader perspective on methods used in applied economic research For the applied researcher the book will provide a nice overview on existing methods and some arguments as to which method might be particularly suitable for specific purposes Peter Winker *Jahrbuch für Nationalökonomie und Statistik*

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

The New Palgrave Dictionary of Economics, 2016-05-18 The award winning The New Palgrave Dictionary of Economics 2nd edition is now available as a dynamic online resource Consisting of over 1 900 articles written by leading figures in the field including Nobel prize winners this is the definitive scholarly reference work for a new generation of economists Regularly updated This product is a subscription based product

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

Unveiling the Magic of Words: A Report on "**Econometric Techniques And Problems**"

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