

**Exercises II
with Answers
VU Econometrics: Econometrics I
Fall 2019**

Review of the concepts and mathematical derivations

1. What is meant by the "sampling distribution" of the OLS estimators?

Answer: Consider the regression model $Y_i = \beta_0 + \beta_1 X_i + u_i$. OLS estimators of β_0 and β_1 are a function of the the random variables Y_i and X_i . Hence, the OLS estimators are also random variables and their values change depending on the sample. Sampling distributions of $\hat{\beta}_0$ and $\hat{\beta}_1$ are the probability distributions that describes the values that the true parameter values β_0 and β_1 could take over different possible random samples.

2. Consider the linear regression model

$$Y_i = \beta_0 + \beta_1 X_i + u_i \quad i = 1, \dots, n.$$

Prove that the OLS estimator of β_1 : $\hat{\beta}_1$ is an unbiased estimator.

Answer: We need to prove that $E(\hat{\beta}_1) = \beta_1$. In order to do that we start with the original model:

$$Y_i = \beta_0 + \beta_1 X_i + u_i. \tag{1}$$

First, we can sum this model over i ($i = 1, 2, \dots, n$), which would give:

$$\sum_{i=1}^n Y_i = n\beta_0 + \beta_1 \sum_{i=1}^n X_i + \sum_{i=1}^n u_i$$

Then we divide this model by n and obtain:

$$\bar{Y} = \beta_0 + \beta_1 \bar{X} + \bar{u} \tag{2}$$

Subtracting (2) from (1) yields:

$$Y_i - \bar{Y} = \beta_1 (X_i - \bar{X}) + u_i - \bar{u}.$$

Answers Exercises Undergraduate Econometrics

Joseph Zaremba



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Econometrics Badi H. Baltagi, 2007-11-21 Here at last is the fourth edition of the textbook that is required reading for economics students as well as those practising applied economics Not only does it teach some of the basic econometric methods and the underlying assumptions behind them but it also includes a simple and concise treatment of more advanced topics from spatial correlation to time series analysis This book's strength lies in its ability to present complex material in a simple yet rigorous manner This superb fourth edition updates identification and estimation methods in the simultaneous equation model It also reviews the problem of weak instrumental variables as well as updating panel data methods

Exercises in Mathematical Economics and Econometrics, with Outlines of Theory John Ervine Spencer, Robert Charles Geary, 1974 **Bayesian Econometric Methods** Joshua Chan, Gary Koop, Dale J. Poirier, Justin L. Tobias, 2019-08-15

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Marsh, 1997 *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 **Undergraduate Econometrics** R. Carter Hill, William E.

Griffiths, George G. Judge, 1997 This book explores econometrics using an intuitive approach that begins with an economic model It emphasizes motivation understanding and implementation and shows readers how economic data are used with economic and statistical models as a basis for estimating key economic parameters testing economic hypotheses and predicting economic outcomes **Student Solutions Manual to Accompany 'An Introduction to Econometrics - a Self**

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Empirical Exercises in Econometrics Nlandu Mamingi, 2005 This is a textbook designed for undergraduate and graduate students and is the result of the author's more than twenty years of involvement with econometrics as both teacher and researcher It contains theory problems and answers many of which have already been tested extensively in classrooms and

tutorials and then refined for the book It includes the following topics single equation regressions dummy and limited dependent variable models simultaneous equations models dynamic regression models unit roots cointegration and error correction models aggregation over time issues forecasting and panel data models The book does not attempt to duplicate the many standard econometrics books Rather it supplements them by focusing exclusively on theoretical and empirical exercises in a systematic way Although much of the material has a Caribbean flavour its rigorous and clear presentation will appeal to students and teachers worldwide

Statistics Karim M. Abadir,Risto D. H. Heijmans,Jan R. Magnus,2018-11-08 Serves as a bridge between elementary and specialized statistics with exercises that are fully solved and systematically built up

Matrix Algebra Karim M. Abadir,Jan R. Magnus,2005-08-22 Matrix Algebra is the first volume of the Econometric Exercises Series It contains exercises relating to course material in matrix algebra that students are expected to know while enrolled in an advanced undergraduate or a postgraduate course in econometrics or statistics The book contains a comprehensive collection of exercises all with full answers But the book is not just a collection of exercises in fact it is a textbook though one that is organized in a completely different manner than the usual textbook The volume can be used either as a self contained course in matrix algebra or as a supplementary text

Exercises in Econometrics P. C. B. Phillips,Mike Wickens,1978

Problems in Linear and Non-Linear Programming S. Vajda,1987 This collection of 235 problems is designed for undergraduates who have completed a year s course in mathematical programming Each section of linear and non linear problems begins with simple exercises and proceeds to more difficult ones Solutions are based on first principles and can be found using a desk calculator Answers to all problems are provided

Using Econometrics A. H. Studenmund,Henry J. Cassidy,1997 A H Studenmund s practical introduction to econometrics combines single equation linear regression analysis with real world examples and exercises Using Econometrics A Practical Guide provides a thorough introduction to econometrics that avoids complex matrix algebra and calculus making it the ideal text for the beginning econometrics student the regression user looking for a refresher or the experienced practitioner seeking a convenient reference

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Theoretical Exercises in Probability and Statistics for Mathematics Undergraduates Najeeb Abdur Rahman,1983

Statistics and Econometrics Joseph Zaremba,1980

Journal of Economic Literature ,2004

Econometrics Ronald J. Wonnacott,Thomas H. Wonnacott,1979-11-07 Econometrics uses a two part format designed for an introductory course followed by a more advanced treatment Part I is a simple presentation of important statistical concepts difficult interpretations and developments are provided in footnotes starred sections and corresponding chapters in Part II allowing for a good appreciation of main problems without any loss of continuity in presentation Part II requires calculus matrix algebra and vector geometry chapters correspond to Part I and cover topics in greater depth This edition now covers Box Jenkins time series analysis Almon lags cross spectral analysis treatment of serial correlation in both the error

and dependent variable principle components and more recent simultaneous equation techniques such as SOIV LIVE and FIVE

Putting Econometrics in Its Place G. M. P. Swann, 2006 The advance of econometrics from its early days has been a massive achievement but it has also been problematic practical results from the use of econometrics are often disappointing The author argues that to get applied economics back on course economists must use a much wider variety of research techniques and must once again learn to respect vernacular knowledge of the economy This vernacular includes the knowledge gathered by ordinary people from their everyday interactions with markets While vernacular knowledge is often unsystematic and informal it offers insights that can never be found from formal analysis alone

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