

**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

**Karim M. Abadir, Risto D. H.
Heijmans, Jan R. Magnus**



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Exercises in Mathematical Economics and Econometrics, with Outlines of Theory John Ervine Spencer, Robert Charles Geary, 1974 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 **Bayesian Econometric Methods** Joshua Chan, Gary Koop, Dale J. Poirier, Justin L. Tobias, 2019-08-15 Illustrates Bayesian theory and application through a series of exercises in question and answer format *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 Contained Approach': Descriptive Statistics; Chapter 2 Essentials of Probability and Estimation; Chapter 3 Interval Estimates and the Central Limit Theorem; Chapter 4 Estimation Procedures, Estimates, and Hypothesis Testing; Chapter 5 Ordinary Least Squares Estimation Procedure-The Mechanics; Chapter 6 Ordinary Least Squares Estimation Procedure-The Properties; Chapter 7 Estimating the Variance of an Estimate's Property Distribution; Chapter 8 Interval Estimates and Hypothesis Testing; Chapter 9 One-Tailed Tests, Two-Tailed Tests, and Logarithms Frank Westhoff, 2013 Solutions to odd numbered prep questions review questions and exercises in an undergraduate econometric textbook designed to teach students regression analysis on one semester **Introduction to Econometrics** Gary Koop, 2008-03-10 Indem sie Modelle für die Voraussage wirtschaftlicher Entwicklungen bereitstellt bildet die Konometrie heute einen Kernbereich der Wirtschaftswissenschaften und hat sich damit zu einem zentralen Bestandteil wirtschaftswissenschaftlicher Studiengänge entwickelt Die hier vorgelegte Einführung eröffnet Einsteigern ebenso wie fortgeschrittenen Studierenden einen Zugang der im Unterschied zur Lehrbuchkonkurrenz von vornherein auf einen starken Praxisbezug setzt Der Verfasser ausgewiesener Konometrieexperte behandelt ein breites Spektrum konometrischer Modelle

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