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**Efficiency and Productivity Growth** - Fotios Pasiouras 2013-03-21

An authoritative introduction to efficiency and productivity analysis with applications in both the banking and finance industry In light of the recent global financial crisis, several studies have examined the efficiency of financial institutions. A number of open questions remain and this book reviews recent issues and state-of-the-art techniques in the assessment of the efficiency and productivity of financial institutions. Written by an international team of experts, the first part of the book links efficiency with a variety of topics like Latin American banking, market discipline and governance, economics of scale, off-balance-sheet activities, productivity of foreign banks, mergers and acquisitions, and mutual fund ratings. The second part of the book compares existing techniques and state-of-the-art techniques in the bank efficiency literature, including among others, network data envelopment analysis and quantile regression. The book is suitable for academics and professionals as well as postgraduate research students working in banking and finance. **Efficiency and Productivity Growth**: Provides an authoritative introduction to efficiency and productivity analysis with applications in both the banking and mutual funds industry such as efficiency of Asian banks, cooperatives and not-for-profit credit associations. Explores contemporary research issues in the area of efficiency and productivity

measurement in the financial sector. Evaluates the most suitable approaches to selecting inputs and outputs as well as selecting the most efficient techniques, such as parametric and non-parametric, to estimate the models.

**Multi-Output Production and Duality: Theory and Applications** - Rolf Färe 2012-12-06

Our original reason for writing this book was the desire to write down in one place a complete summary of the major results in duality theory pioneered by Ronald W. Shephard in three of his books, *Cost and Production Functions* (1953), *Theory of Cost and Production Functions* (1970), and *Indirect Production Functions* (1974). In this way, newcomers to the field would have easy access to these important ideas. In addition, we report a few new results of our own. In particular, we show the duality relationship between the profit function and the eight equivalent representations of technology that were elucidated by Shephard. However, in planning the book and discussing it with colleagues it became evident that such a book would be more useful if it also provided a number of applications of Shephard's duality theory to economic problems. Thus, we have also attempted to present examples of the use of duality theory in areas such as efficiency measurement, index number theory, shadow pricing, cost-benefit analysis, and econometric estimation. Much of our thinking about duality theory and its uses has been influenced by our

present and former collaborators. They include Charles Blackorby, Shawna Grosskopf, Knox Lovell, Robert Russell, and, not surprisingly, Ronald W. Shephard. We have also benefited over the years from many discussions with W. Erwin Diewert.

**Public Sector Efficiency Measurement** - Joseph Augustine Ganley 1992

The core problem tackled in this book is the measurement of public-sector efficiency with Data Envelopment Analysis (DEA). The book is intended to inject new ideas into the diverse academic literature which up till now has lacked a critical book-length exploration of DEA. The text is readable and intuitive making it suitable for a broad audience, including policy-makers and civil servants working on the control of public expenditure, privatisation etc. Graduates and advanced undergraduates should also find this book a valuable introduction to the nature and implementation of DEA. These will include students on economics, management science and accounting degrees. The book provides a realistic approach to DEA, acknowledging its problems such as the fundamental output measurement and variable selection problems which are rarely recognised in applied studies.

**Production Frontiers** - Rolf Fare 1994

This book presents a mathematical programming approach to the analysis of production frontiers and efficiency measurement. The authors construct a variety of production frontiers, and by measuring distances to them are able to develop a model of efficient producer behaviour and a taxonomy of possible types of departure from efficiency in various environments. Linear programming is used as an analytical and computational technique in order to accomplish this. The approach developed is then applied to modelling producer behaviour. By focusing on the empirical relevance of production frontiers and distances to them, and applying linear programming techniques to artificial data to illustrate the type of information they can generate, this book provides a unique study in applied production analysis. It will be of interest to scholars and students of economics and operations research, and analysts in business and government.

**Smart and Sustainable Planning for Cities and Regions** - Adriano Bisello 2018-04-25

This book comprises a selection of the top contributions presented at the second international conference "Smart and Sustainable Planning for Cities and Regions 2017", held in March 2017 in Bolzano, Italy. Featuring forty-six papers by policy-makers, academics and consultants, it discusses current groundbreaking research in smart and sustainable planning, including the progress made in overcoming cities' challenges towards improving the quality of life. Climate change adaptation and mitigation of global warming, generally identified as drivers of global policies, are just the "tip of the iceberg" when it comes to smart energy transition. Indeed, equally relevant towards this current transformation - and key topics in this volume - are ICTs, public spaces and society; next economy for the city; strategies and actions for good governance; urban-rural innovation; rethinking mobility. The book's depth in understanding and insightfulness in re-thinking demonstrate the breaking of new ground in smart and sustainable planning. A new ground that policy-makers, academics and consultants may build upon as a bedrock for smart and sustainable planning.

**An Introduction to Efficiency and**

**Productivity Analysis** - Timothy J. Coelli

2005-07-22

Softcover version of the second edition  
Hardcover. Incorporates a new author, Dr. Chris O'Donnell, who brings considerable expertise to the project in the area of performance measurement. Numerous topics are being added and more applications using real data, as well as exercises at the end of the chapters. Data sets, computer codes and software will be available for download from the web to accompany the volume.

**Frontier Production Functions, Technical Efficiency and Panel Data** - George Edward

Battese 1991

**Airport Economics in Latin America and the Caribbean** - Tomás Serebrisky 2011-12-05

Traditionally, air transport infrastructure in Latin America and the Caribbean (LAC) was exclusively under government ownership and management. Starting in the late 1990s, several Latin American countries implemented innovative public-private partnerships (PPP) that

transferred the financing and management of air transport sector infrastructure to the private sector. This book presents the findings of a first-ever, comprehensive study of how LAC region airports have evolved during this notable period of transition in airport ownership. It is an unbiased, positive analysis of what happened, rather than a normative analysis of what should be done to reform the airport sector or to attract private participation. It takes the first step in response to the need for more conclusive information about the influence of airport ownership on economic performance. The book is centered around the study of three dimensions of performance: productive efficiency, institutional set up for the governance of the sector, and financing of airport PPPs. Using rigorous analytical tools, this book answers a series of key questions to evaluate the introduction of private sector participation in the Latin American airport sector: Are LAC airports technically efficient? How has efficiency evolved in the last decade? Are privately-run airports more efficient than state-operated airports? How do independent regulators compare with government agencies in accountability, transparency, and autonomy? How has the level and structure of aeronautical tariffs changed in recent years? The main audience of this book are air transport practitioners, transport regulators, decisionmakers in transport ministries, and PPP units and academics.

**The Measurement of Productive Efficiency and Productivity Growth** - Harold O. Fried  
2008-02-04

When Harold Fried, et al. published *The Measurement of Productive Efficiency: Techniques and Applications* with OUP in 1993, the book received a great deal of professional interest for its accessible treatment of the rapidly growing field of efficiency and productivity analysis. The first several chapters, providing the background, motivation, and theoretical foundations for this topic, were the most widely recognized. In this tight, direct update, these same editors have compiled over ten years of the most recent research in this changing field, and expanded on those seminal chapters. The book will guide readers from the basic models to the latest, cutting-edge extensions, and will be reinforced by references

to classic and current theoretical and applied research. It is intended for professors and graduate students in a variety of fields, ranging from economics to agricultural economics, business administration, management science, and public administration. It should also appeal to public servants and policy makers engaged in business performance analysis or regulation.

*Microfinance for Entrepreneurial Development* - Douglas Cumming 2017-09-28

This edited collection presents recent developments, practical innovations, and policy reforms in the realm of microfinance in emerging markets. Microfinance has been hotly debated by ever-colliding camps of ardent supporters, who believe that microfinance addresses credit market failures and provides a durable answer to the problem of the poverty, and staunch critics, who argue that lending by microfinance institutions is wasteful, and the interest rates are too high. To bring further insight into this important debate, this book presents comprehensive historical, political, and economic perspectives on the latest issues in microfinance. An impressive array of scholars and practitioners build a framework for thinking about regulation to drive sustainable, inclusive development. With case studies of programs in India, Ghana, and Bangladesh, and examinations of the effects of gender and religion on financial decision-making, this comprehensive collection offers something valuable to scholars, policymakers, and practitioners—anyone with a vested interest in promoting innovation in microfinance.

**Multinational Enterprises and Host Country Development** - Holger Görg 2016-06-24

*Multinational Enterprises and Host Country Development* is a unique collection of papers looking at different aspects of the link between multinational enterprises and their effects on the host countries' economies. The volume studies effects of multinationals on R&D, innovation, productivity, wages, as well as growth and survival of firms in the host countries, and distinguishes direct and indirect effects through spillovers. All the analyses are conducted using firm level data for countries as diverse as China, Ireland, Sweden, Ghana, the UK or a group of countries in Central and Eastern Europe. This volume is a valuable reading for graduate

students and researchers wishing to investigate the impact of multinationals.

□□□□□□□□ - 2011-12

Regions and Economic Resilience - Raul Ramos  
2020-12-14

The term "resilience" originated in environmental studies and describes one's biological capacity to adapt and thrive under adverse environmental conditions. Regional economic resilience is defined as the capacity of a territory's economy to resist and/or recover quickly from external shocks, often even improving on its prior situation (before the shock). The contributions in this book analyse different channels related to processes of mitigation (resistance-recovery) and adaptive resilience (reorientation-renewal), in a wide variety of geographical settings and scales. While the different chapters include relevant methodological advances in this literature, they also obtain relevant results from a policy perspective. Moreover, the wide spectrum of topics and analyses among the contributions in this book extend the current framework, to analyse regional economic resilience, from the intersection of several disciplines involving geographers, economists and demographers, as well as environmental scientists.

**Modeling Data Irregularities and Structural Complexities in Data Envelopment Analysis** - Joe Zhu 2007-06-08

In a relatively short period of time, data envelopment analysis (DEA) has grown into a powerful analytical tool for measuring and evaluating performance. DEA is computational at its core and this book is one of several Springer aim to publish on the subject. This work deals with the micro aspects of handling and modeling data issues in DEA problems. It is a handbook treatment dealing with specific data problems, including imprecise data and undesirable outputs.

*AGRAR-2013* - Fok, Michel 2015-11-02

La 4e de couv. indique : "La conférence AGRAR en 2013 a été prévue dans la conduite du Projet AFOMDnet dans le cadre du Programme ACP pour la Science et la Technologie avec le soutien de l'Union Européenne. Elle n'aurait cependant pu avoir lieu sans l'adhésion et le soutien – directs ou indirects – mais aussi la participation

d'un nombre conséquent d'institutions du Nord et du Sud. La conférence AGRAR (pour « AGRiculture, Alimentation et Recherche »), une conférence par et pour la recherche agronomique en Afrique, a été conçue pour perdurer. Il est espéré que le partage des travaux conduits en Afrique se poursuive. C'est l'objectif de la publication de ces Actes."

*Measurement of Productivity and Efficiency* - Robin C. Sickles 2019-03-28

Provides a comprehensive approach to productivity and efficiency analysis using economic and econometric theory.

Advanced Robust and Nonparametric Methods in Efficiency Analysis - Cinzia Daraio 2007-04-10

Providing a systematic and comprehensive treatment of recent developments in efficiency analysis, this book makes available an intuitive yet rigorous presentation of advanced nonparametric and robust methods, with applications for the analysis of economies of scale and scope, trade-offs in production and service activities, and explanations of efficiency differentials.

An Updated Look at the Recovery of Agricultural Productivity in Sub-Saharan Africa - Alejandro Nin Pratt and Bingxin Yu

**Benchmarking Economic Efficiency** - Jesús T. Pastor 2022-08-13

This book unifies and extends the definition and measurement of economic efficiency and its use as a real-life benchmarking technique for actual organizations. Analytically, the book relies on the economic theory of duality as guiding framework. Empirically, it shows how the alternative models can be implemented by way of Data Envelopment Analysis. An accompanying software programmed in the open-source Julia language is used to solve the models. The package is a self-contained set of functions that can be used for individual learning and instruction. The source code, associated documentation, and replication notebooks are available online. The book discusses the concept of economic efficiency at the firm level, comparing observed to optimal economic performance, and its decomposition according to technical and allocative criteria. Depending on the underlying technical efficiency measure, economic efficiency can be decomposed

multiplicatively or additively. Part I of the book deals with the classic multiplicative approach that decomposes cost and revenue efficiency based on radial distance functions.

Subsequently, the book examines how these partial approaches can be expanded to the notion of profitability efficiency, considering both the input and output dimensions of the firm, and relying on the generalized distance function for the measurement of technical efficiency. Part II is devoted to the recent additive framework related to the decomposition of economic inefficiency defined in terms of cost, revenue, and profit. The book presents economic models for the Russell and enhanced graph Russell measures, the weighted additive distance function, the directional distance function, the modified directional distance function, and the Hölder distance function. Each model is presented in a separate chapter. New approaches that qualify and generalize previous results are also introduced in the last chapters, including the reverse directional distance function and the general direct approach. The book concludes by highlighting the importance of benchmarking economic efficiency for all business stakeholders and recalling the main conclusions obtained from many years of research on this topic. The book offers different alternatives to measure economic efficiency based on a set of desirable properties and advises on the choice of specific economic efficiency models.

**Productivity and Efficiency Analysis** - William H. Greene 2015-12-29

This proceedings volume examines the state-of-the-art of productivity and efficiency analysis and adds to the existing research by bringing together a selection of the best papers from the 8th North American Productivity Workshop (NAPW). It also aims to analyze world-wide perspectives on challenges that local economies and institutions may face when changes in productivity are observed. The volume comprises of seventeen papers that deal with productivity measurement, productivity growth, dynamics of productivity change, measures of labor productivity, measures of technical efficiency in different sectors, frontier analysis, measures of performance, industry instability and spillover effects. These papers are relevant

to academia, but also to public and private sectors in terms of the challenges firms, financial institutions, governments and individuals may face when dealing with economic and education related activities that lead to increase or decrease of productivity. The North American Productivity Workshop brings together academic scholars and practitioners in the field of productivity and efficiency analysis from all over the world. It is a four day conference exploring topics related to productivity, production theory and efficiency measurement in economics, management science, operations research, public administration, and related fields. The papers in this volume also address general topics as health, energy, finance, agriculture, utilities, and economic development, among others. The editors are comprised of the 2014 local organizers, program committee members, and celebrated guest conference speakers.

Stochastic Frontier Analysis - Subal C. Kumbhakar 2003-03-10

Modern textbook presentations of production economics typically treat producers as successful optimizers. Conventional econometric practice has generally followed this paradigm, and least squares based regression techniques have been used to estimate production, cost, profit and other functions. In such a framework deviations from maximum output, from minimum cost and cost minimizing input demands, and from maximum profit and profit maximizing output supplies and input demands, are attributed exclusively to random statistical noise. However casual empiricism and the business press both make persuasive cases for the argument that, although producers may indeed attempt to optimize, they do not always succeed. This book develops econometric techniques for the estimation of production, cost and profit frontiers, and for the estimation of the technical and economic efficiency with which producers approach these frontiers. Since these frontiers envelop rather than intersect the data, and since the authors continue to maintain the traditional econometric belief in the presence of external forces contributing to random statistical noise, the work is titled Stochastic Frontier Analysis.

**Germany** - International Monetary Fund

2011-12-23

This Technical Note focuses on banking sector structure in Germany. Germany's banking system comprises three "pillars"—private commercial banks, public sector banks, and cooperative banks—distinguished by the ownership structure and business orientation. The German banking system includes a large number of institutions in both absolute and relative terms. This note describes the evolution of Germany's three-pillar banking system. It analyzes capitalization, credit and the intermediation of savings, and bank profitability and efficiency. It also examines the benefits of public involvement and governance in the banking system.

Multifactor Productivity Measures - 1983

*New Developments in Productivity Analysis -*

Charles R. Hulten 2007-11-01

The productivity slowdown of the 1970s and 1980s and the resumption of productivity growth in the 1990s have provoked controversy among policymakers and researchers. Economists have been forced to reexamine fundamental questions of measurement technique. Some researchers argue that econometric approaches to productivity measurement usefully address shortcomings of the dominant index number techniques while others maintain that current productivity statistics underreport damage to the environment. In this book, the contributors propose innovative approaches to these issues. The result is a state-of-the-art exposition of contemporary productivity analysis. Charles R. Hulten is professor of economics at the University of Maryland. He has been a senior research associate at the Urban Institute and is chair of the Conference on Research in Income and Wealth of the National Bureau of Economic Research. Michael Harper is chief of the Division of Productivity Research at the Bureau of Labor Statistics. Edwin R. Dean, formerly associate commissioner for Productivity and Technology at the Bureau of Labor Statistics, is adjunct professor of economics at The George Washington University.

**Regional Inequality and Development -**

Takahiro Akita 2022-07-14

This book addresses three main issues in regional income inequality and development:

meaning of regional inequality, measurement of regional inequality and the relationship between national economic development and regional income inequality. It provides analytical methods useful in exploring the determinants of regional inequality in income and productivity. Some software commands in Stata (statistical software package) available for the measurement and analysis of income inequality are also introduced. Some researchers have argued that spatial concentration of population in and around major cities and the concurrent increase in regional inequality do not hinder national economic development, and may stimulate it. Nevertheless, many national governments seek to promote balanced regional economic development and reduce regional income inequality, because unbalanced development and higher levels of regional inequality may cause political or ethnic conflicts between different regions of the country. As the applications of the analytical methods introduced in the first part of the book, the second part presents four independent empirical studies on regional inequality and development in Indonesia. They offer very interesting case studies for the formulation of policies and programs to reduce regional inequalities, because as the world's largest archipelagic country with more than 13 thousand islands and 300 ethnic groups, Indonesia is spatially diverse in terms of its ecology, natural resource endowments, economy, ethnicity and culture. This book can be used as a textbook for undergraduate and graduate students who are interested in national economic development and regional income inequality. It is also beneficial for practitioners and policy makers who are in charge of the formulation, implementation and evaluation of development policies and programs.

**Financial Underpinnings of Europe's**

**Financial Crisis -** Nina Eichacker 2017-10-27

This book analyzes how financial liberalization affected the development of the financial crisis in Europe, with particular attention given to the ways in which power asymmetries within Western Europe facilitated financial liberalization and distributed the costs and gains from it. The author combines institutional narrative analysis with empirical surveys and econometrics, as well as country-level studies of

financial liberalization and its consequences before and after the 2008 Global Financial Crisis.

Measuring Efficiency in Health Care - Rowena Jacobs 2006-06-01

With the healthcare sector accounting for a sizeable proportion of national expenditures, the pursuit of efficiency has become a central objective of policymakers within most health systems. However, the analysis and measurement of efficiency is a complex undertaking, not least due to the multiple objectives of health care organizations and the many gaps in information systems. In response to this complexity, research in organizational efficiency analysis has flourished. This 2006 book examines some of the most important techniques currently available to measure the efficiency of systems and organizations, including data envelopment analysis and stochastic frontier analysis, and also presents some promising new methodological approaches. Such techniques offer the prospect of many new and fruitful insights into health care performance. Nevertheless, they also pose many practical and methodological challenges. This is an important critical assessment of the strengths and limitations of efficiency analysis applied to health and health care.

Universities and Strategic Knowledge Creation - Andrea Bonaccorsi 2007-01-01

'... my opinion is that this book not only presents a wide and complete report of an extensive research effort, but also opens new directions for future research advancements in this field, that is very relevant both from theoretical considerations and policy-making implications.' Education Economics 'This book is the first work that brings together comprehensive evidence on research and education activities conducted in European universities. The volume is both timely (current discussion on the European Research Area is based on very poor quality comparative evidence) and important for scholars, practitioners, policymakers and students. It provides a critical assessment of the availability and use of input/output data and indicators to measure and map European higher education systems. At a time when universities are being asked to play an increasing number of roles, this

book represents a foundation on which scholars and policymakers can start to develop the harmonised statistical infrastructure needed to evaluate, assess and support European universities in their changing roles.' Aldo Geuna, University of Sussex, UK Although the role of universities in the knowledge society is increasingly significant, there remains a severe lack of systematic quantitative evidence at the micro-level, with virtually all policy discussion based on country level statistics or case studies. This book redresses the balance by examining original data from universities in six European countries Italy, Norway, Portugal, Spain, Switzerland and the UK. The authors provide micro-based evidence on the evolution of the strategic profile of universities in terms of scientific research, contract research, education and the third mission. The result is a highly innovative book that combines detailed national case studies and comparative institutional analyses with state-of-the-art quantitative techniques. Applying for the first time new generations of nonparametric efficiency measures on a large scale, Universities and Strategic Knowledge Creation will be of great interest to researchers and postgraduate students in higher education, economics of science and technology, and innovation studies. It will also appeal to policymakers and administrators in governments, ministries and universities.

*Building a Resilient and Sustainable Agriculture in Sub-Saharan Africa* - Amadou Boly 2020-10-09

What are the challenges and action points for agricultural sustainability in Sub-Saharan Africa? This collection of papers offers technical analyses, policy recommendations and an overview of success stories to date. Each carefully selected paper provides valuable insights for improved policy making and defines relevant strategic priorities on Africa's sustainable transformation process, which is in line with the international development agenda. Although agriculture remains the main source of income for Africa's population, the sector is rain-fed subjecting it to the vagaries of weather and climate change. This volume demonstrates the rationale of developing a competitive, inclusive and sustainable agribusiness sector for Africa's food security and structural

transformation. From the impact of Bioenergy crop adoption and Drought Index Insurance to Agro-Industrialization, this volume is important reading for individual researchers, academic associations and professional bodies interested in African agricultural development. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

**Productivity and Inequality** - William H. Greene 2018-02-02

The volume highlights the state-of-the-art knowledge (including data analysis) of productivity, inequality and efficiency analysis. It showcases a selection of the best papers from the 9th North American Productivity Workshop. These papers are relevant to academia, but also to public and private sectors in terms of the challenges that firms, financial institutions, governments, and individuals may face when dealing with economic and education related activities that lead to increase or decrease of productivity. The volume also aims to bring together ideas from different parts of the world about the challenges those local economies and institutions may face when changes in productivity are observed. These contributions focus on theoretical and empirical research in areas including productivity, production theory and efficiency measurement in economics, management science, operation research, public administration, and education. The North American Productivity Workshop (NAPW) brings together academic scholars and practitioners in the field of productivity and efficiency analysis from all over the world, and this proceedings volume is a reflection of this mission. The papers in this volume also address general topics as education, health, energy, finance, agriculture, transport, utilities, and economic development, among others. The editors are comprised of the 2016 local organizers, program committee members, and celebrated guest conference speakers.

*Benchmarking with DEA, SFA, and R* - Peter Bogetoft 2010-11-19

This book covers recent advances in efficiency evaluations, most notably Data Envelopment Analysis (DEA) and Stochastic Frontier Analysis

(SFA) methods. It introduces the underlying theories, shows how to make the relevant calculations and discusses applications. The aim is to make the reader aware of the pros and cons of the different methods and to show how to use these methods in both standard and non-standard cases. Several software packages have been developed to solve some of the most common DEA and SFA models. This book relies on R, a free, open source software environment for statistical computing and graphics. This enables the reader to solve not only standard problems, but also many other problem variants. Using R, one can focus on understanding the context and developing a good model. One is not restricted to predefined model variants and to a one-size-fits-all approach. To facilitate the use of R, the authors have developed an R package called Benchmarking, which implements the main methods within both DEA and SFA. The book uses mathematical formulations of models and assumptions, but it de-emphasizes the formal proofs - in part by placing them in appendices -- or by referring to the original sources. Moreover, the book emphasizes the usage of the theories and the interpretations of the mathematical formulations. It includes a series of small examples, graphical illustrations, simple extensions and questions to think about. Also, it combines the formal models with less formal economic and organizational thinking. Last but not least it discusses some larger applications with significant practical impacts, including the design of benchmarking-based regulations of energy companies in different European countries, and the development of merger control programs for competition authorities.

**International Handbook on the Economics of Education** - Geraint Johnes 2007-01-01

. . . is a voluminous and timely collection of 18 essays that addresses a number of core issues on the economics of education. . . An exhaustive survey of the literature on the role of universities as multi-product firms at various levels and disciplines identifies the nature of the economies of scope and scale. This enriches the volume further. Economic Analysis & Policy . . . the endeavour of bringing together very knowledgeable contributors, including some of the leading contributors to the literature in the

UK and beyond, to write a handbook on the economics of education is highly appreciated. The Handbook contains 18 substantive chapters, encapsulated by a brief introduction and an extensive and a very useful index. . . the Handbook should be praised as a useful overview of the field of economics of education as it stands today. Ludger Wößmann, Economic Issues This major Handbook comprehensively surveys the rapidly growing field of the economics of education. It is unique in that it comprises original contributions on an exceptional range of topics from a review of human capital, signalling and screening models, to consideration of issues such as educational externalities and economic growth, funding models, determinants of educational success, the educational production function, educational standards and efficiency measurement. Labour market issues such as the market for teachers and the transition of students from school to work are also explored. The International Handbook on the Economics of Education will be warmly welcomed by academic economists, educational researchers and practitioners in educational management as well as policymakers. Comprising specially commissioned articles, the Handbook will become indispensable reference for this ever topical field of study.

**Corporate Bankruptcy Prediction** - Błażej Prusak 2020-06-16

Bankruptcy prediction is one of the most important research areas in corporate finance. Bankruptcies are an indispensable element of the functioning of the market economy, and at the same time generate significant losses for stakeholders. Hence, this book was established to collect the results of research on the latest trends in predicting the bankruptcy of enterprises. It suggests models developed for different countries using both traditional and more advanced methods. Problems connected with predicting bankruptcy during periods of prosperity and recession, the selection of appropriate explanatory variables, as well as the dynamization of models are presented. The reliability of financial data and the validity of the audit are also referenced. Thus, I hope that this book will inspire you to undertake new research in the field of forecasting the risk of bankruptcy.

**Data Envelopment Analysis: Theory, Methodology, and Applications** - Abraham Charnes 2013-12-01

This book represents a milestone in the progression of Data Envelopment Analysis (DEA). It is the first reference text which includes a comprehensive review and comparative discussion of the basic DEA models. The development is anchored in a unified mathematical and graphical treatment and includes the most important modeling extensions. In addition, this is the first book that addresses the actual process of conducting DEA analyses including combining DEA and 1 parametric techniques. The book has three other distinctive features. It traces the applications driven evolution and diffusion of DEA models and extensions across disciplinary boundaries. It includes a comprehensive bibliography to serve as a source of references as well as a platform for further developments. And, finally, the power of DEA analysis is demonstrated through fifteen novel applications which should serve as an inspiration for future applications and extensions of the methodology. The origin of this book was a Conference on New Uses of DEA in 2 Management and Public Policy which was held at the IC Institute of the University of Texas at Austin on September 27-29, 1989. The conference was made possible through NSF Grant #SES-8722504 (A. Charnes and 2 W. W. Cooper, co-PIs) and the support of the IC Institute.

Verimlilik ve Etkinlik Analizleri - BÜLENT MİRAN

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*Handbook of Production Economics* - Subhash C. Ray 2022-06-02

This three-volume handbook includes state-of-the-art surveys in different areas of neoclassical production economics. Volumes 1 and 2 cover theoretical and methodological issues only. Volume 3 includes surveys of empirical applications in different areas like manufacturing, agriculture, banking, energy and environment, and so forth.

*Industrial Price, Quantity, and Productivity Indices* - Bert M. Balk 2013-03-09

Industrial Price, Quantity, and Productivity Indices: The Micro-Economic Theory and an Application gives a comprehensive account of the micro-economic foundations of industrial price, quantity, and productivity indices. The various results available from the literature have been brought together into a consistent framework, based upon modern duality theory. This integration also made it possible to generalize several of these results. Thus, this book will be an important resource for theoretically as well as empirically-oriented researchers who seek to analyse economic problems with the help of index numbers. Although this book's emphasis is on micro-economic theory, it is also intended as a practical guide. A full chapter is therefore devoted to an empirical application. Three different approaches are pursued: a straightforward empirical approach, a non-parametric estimation approach, and a

parametric estimation approach. As well as illustrating some of the more important concepts explored in this book, and showing to what extent different computational approaches lead to different outcomes for the same measures, this chapter also makes a powerful case for the use of enterprise micro-data in economic research.

**A Practitioner's Guide to Stochastic Frontier Analysis Using Stata** - Subal C. Kumbhakar 2015-01-26

A Practitioner's Guide to Stochastic Frontier Analysis Using Stata provides practitioners in academia and industry with a step-by-step guide on how to conduct efficiency analysis using the stochastic frontier approach. The authors explain in detail how to estimate production, cost, and profit efficiency and introduce the basic theory of each model in an accessible way, using empirical examples that demonstrate the interpretation and application of models. This book also provides computer code, allowing users to apply the models in their own work, and incorporates the most recent stochastic frontier models developed in academic literature. Such recent developments include models of heteroscedasticity and exogenous determinants of inefficiency, scaling models, panel models with time-varying inefficiency, growth models, and panel models that separate firm effects and persistent and transient inefficiency. Immensely helpful to applied researchers, this book bridges the chasm between theory and practice, expanding the range of applications in which production frontier analysis may be implemented.

*Health System Efficiency* - Jonathan Cylus 2016-12-15

In this book the authors explore the state of the art on efficiency measurement in health systems and international experts offer insights into the pitfalls and potential associated with various measurement techniques. The authors show that: - The core idea of efficiency is easy to understand in principle - maximizing valued outputs relative to inputs, but is often difficult to make operational in real-life situations - There have been numerous advances in data collection and availability, as well as innovative methodological approaches that give valuable insights into how efficiently health care is

delivered - Our simple analytical framework can facilitate the development and interpretation of efficiency indicators.

**Data Envelopment Analysis** - William W. Cooper 2007-01-10

This volume systematically details both the basic principles and new developments in Data Envelopment Analysis (DEA), offering a solid understanding of the methodology, its uses, and

its potential. New material in this edition includes coverage of recent developments that have greatly extended the power and scope of DEA and have led to new directions for research and DEA uses. Each chapter accompanies its developments with simple numerical examples and discussions of actual applications. The first nine chapters cover the basic principles of DEA, while the final seven chapters provide a more advanced treatment.