

Dynamic and Stochastic Efficiency Analysis

**Economics of Data
Envelopment Analysis**

Jati K. Sengupta

World Scientific

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Dynamic And Stochastic Efficiency Analysis Jati K Sengupta, 2000-05-05 This book extends the dynamic and stochastic analysis of economic efficiency by using the recent techniques of data envelopment analysis. New results and applications of these techniques in numerous areas of economics, finance and management are provided, including treatment of private sector industries, portfolio models in finance, quality control techniques in managerial performance, the role of market competition, policy applications in investment models in finance, risk aversion and efficiency and technology and innovation. The most up-to-date tools of efficiency analysis developed here will be valuable for students and researchers in operations research, applied management science and applied microeconomics. **Dynamics of Data Envelopment**

Analysis Jati Sengupta, 2013-11-11 Data envelopment analysis develops a set of nonparametric and semiparametric techniques for measuring economic efficiency among firms and nonprofit organizations. Over the past decade, this technique has found most widespread applications in public sector organizations. However, these applications have been mostly static. This monograph extends this static framework of efficiency analysis in several new directions. These include but are not limited to the following: 1. a dynamic view of the production and cost frontier where capital inputs are treated differently from the current inputs; 2. a direct role of the technological progress and regress, which is so often stressed in total factor productivity discussion in modern growth theory in economics; 3. stochastic efficiency in a dynamic setting where reliability improvement competes with technical efficiency; 4. flexible manufacturing systems where flexibility of the production process and the economies of scope play an important role in efficiency analysis; and 5. the role of economic factors such as externalities and input interdependences. Efficiency is viewed here in the framework of a general systems theory model. Such a view is intended to broaden the scope of applications of this promising new technique of data envelopment analysis. The monograph stresses the various applied aspects of the dynamic theory so that it can be empirically implemented in different situations. As far as possible, abstract mathematical treatments are avoided and emphasis placed on the statistical examples and empirical illustrations. *Financial Risk Management in Banking* Shahsuzan Zakaria, Sardar Islam, 2019-08-08

As risk taking is an essential part of the banking industry, banks must practise efficient risk management to ensure survival in uncertain financial climates. Banking operations are specifically affected by fluctuations in interest rates which cause financial imbalance; thus, banks are now required to put in place an effective management structure that incorporates risk management efficiency measures that help mitigate the wide range of risks they face. In this book, the authors have developed a new modelling approach to determine banks' financial risk management by offering detailed insights into the integrated approach of dollar offset ratio and Data Envelopment Analysis (DEA) based on derivatives usage. It further analyses the efficiency measurement under stochastic DEA approaches, namely: i) Bootstrap DEA (BDEA), ii) Sensitivity Analysis, and iii) Chance Constrained DEA (CCDEA). As demonstrated in the modelling exercise, this integrated approach can be applied to other cases.

that require risk management efficiency measurement strategies Additionally this is the first book to comprehensively review the derivative markets of both the developed and developing countries in the Asia Pacific region by examining the differences of risk management efficiency of the banking institutions in these countries Based on this measurement approach strategies are provided for banks to improve their strategic risk management practices as well as to reduce the impacts from external risks such as changes in interest rates and exchange rates Furthermore this book will help banks to keep abreast of recent developments in the field of efficiency studies in management accounting specifically in relation to hedge accounting used by banks in the Asia Pacific region

Encyclopedia of Sustainable Management Samuel Idowu, René Schmidpeter, Nicholas Capaldi, Liangrong Zu, Mara Del Baldo, Rute Abreu, 2023-11-21 This encyclopedia is the most comprehensive and up to date source of reference for sustainability in business and management It covers both traditional and emerging concepts and terms and is fully international in its scope More than 700 contributions of internationally renowned experts provide a definitive access to the knowledge in the area of sustainable and responsible management All actors in the field will find reliable and up to date definitions and explanations of the key terms and concepts of management in this reference work The Encyclopedia of Sustainable Management represents all aspects of management and business conduct It takes sustainability as a management concept that gives due credit to the complexity and diverging constraints in which businesses and corporations act today and it emphasizes and focuses approaches that help ensure that today's management decisions and actions will be the basis for tomorrow's prosperity

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Advanced Mathematical Methods for Economic Efficiency Analysis Pedro Macedo, Victor Moutinho, Mara Madaleno, 2023-06-21 Economic efficiency analysis has received considerable worldwide attention in the last few decades with Stochastic Frontier Analysis SFA and Data Envelopment Analysis DEA establishing themselves as the two dominant approaches in the literature This book by combining cutting edge theoretical research on DEA and SFA with attractive real world applications offers a valuable asset for professors students researchers and professionals working in all branches of economic efficiency analysis as well as those concerned with the corresponding economic policies The book is divided into three parts the first of which is devoted to basic concepts making the content self contained The second is devoted to DEA and the third to SFA The topics covered in Part 2 range from stochastic DEA to multidirectional dynamic inefficiency analysis including directional distance functions the elimination and choice translating algorithm benefit of the doubt composite indicators and internal benchmarking for efficiency evaluations Part 3 also includes exciting and cutting edge theoretical research on e g robustness nonparametric

stochastic frontier models hierarchical panel data models and estimation methods like corrected ordinary least squares and maximum entropy *Efficiency Analysis by Production Frontiers* Jati Sengupta,1988-12-31 Measuring productive efficiency for nonprofit organizations has posed a great challenge to applied researchers today The problem has many facets and diverse implications for a number of disciplines such as economics applied statistics management science and information theory This monograph discusses four major areas which emphasize the applied economic and econometric aspects of the production frontier analysis A Stochastic frontier theory B Data envelopment analysis C Clustering and estimation theory D Economic and managerial applications Besides containing an up to date survey of the most recent developments in the field the monograph presents several new results and theorems from my own research These include but are not limited to the following 1 interface with parametric theory 2 minimax and robust concepts of production frontier 3 game theoretic extension of the Farrell and Johansen models 4 optimal clustering techniques for data envelopment analysis and 5 the dynamic and stochastic generalizations of the efficiency frontier at the micro and macro levels In my research work in this field I have received great support and inspiration from Professor Abraham Charnes of the University of Texas at Austin who has basically founded the technique of data envelopment analysis developed it and is still expanding it My interactions with him have been most fruitful and productive I am deeply grateful to him Finally I must record my deep appreciation to my wife and two children for their loving and enduring support But for their support this work would not have been completed

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Table of Contents Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis

1. Understanding the eBook Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - The Rise of Digital Reading Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Personalized Recommendations
 - Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis User Reviews and Ratings
 - Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis and Bestseller Lists
5. Accessing Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis Free and Paid eBooks
 - Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis Public Domain eBooks

- Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis eBook Subscription Services
- Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis Budget-Friendly Options
- 6. Navigating Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis eBook Formats
 - ePub, PDF, MOBI, and More
 - Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis Compatibility with Devices
 - Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Highlighting and Note-Taking Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Interactive Elements Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
- 8. Staying Engaged with Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
- 9. Balancing eBooks and Physical Books Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Setting Reading Goals Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Fact-Checking eBook Content of Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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