



An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement

By R Ramanathan

 Download

 Read Online

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan

From the Foreword:

'This book is an excellent tool for practitioners who are interested in the merits and pitfalls of the technique.... (The author's) research is an example of inventiveness, diligence and accuracy' - **Freerk A. Lootsma, Delft Institute of Technology**

Data envelopment Analysis is a Mathematical Programme for measuring performance efficiency of organizational units. The organizational units, termed as decision-making units (DMU) can be of any kind: manufacturing units, a set of schools, banks, hospitals, power plants, police stations, prisons, a set of firms etc.

DEA has been unsuccessfully applied to measure the performance efficiency of these different kinds of DMUs which share a common characteristic - that they are non-profit organization where measurement of performance efficiency is difficult.

DEA has been employed for assessing the relative performance of a set of firms that use a variety of identical inputs-say in the case of a school: quality of students, teachers, grants etc.,-to produce a variety of identical outputs-number of students who pass the final year, average grades obtained by the students in the final

year etc.

DEA assumes the performance of the DMUs by using the concepts of efficiency or productivity which is measured as the ratio of total outputs to total inputs. Also, the efficiencies estimated are relative to the best performing DMU or DMUs. The best performing DMU is given a score of 100% and the performance of other DMUs vary between 0 -100%.

 [Download An Introduction to Data Envelopment Analysis: A To ...pdf](#)

 [Read Online An Introduction to Data Envelopment Analysis: A ...pdf](#)

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement

By R Ramanathan

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan

From the Foreword:

'This book is an excellent tool for practitioners who are interested in the merits and pitfalls of the technique.... (The author's) research is an example of inventiveness, diligence and accuracy' - **Freerk A. Lootsma, Delft Institute of Technology**

Data envelopment Analysis is a Mathematical Programme for measuring performance efficiency of organizational units. The organizational units, termed as decision-making units (DMU) can be of any kind: manufacturing units, a set of schools, banks, hospitals, power plants, police stations, prisons, a set of firms etc.

DEA has been unsuccessfully applied to measure the performance efficiency of these different kinds of DMUs which share a common characteristic - that they are non-profit organization where measurement of performance efficiency is difficult.

DEA has been employed for assessing the relative performance of a set of firms that use a variety of identical inputs-say in the case of a school: quality of students, teachers, grants etc.,-to produce a variety of identical outputs-number of students who pass the final year, average grades obtained by the students in the final year etc.

DEA assumes the performance of the DMUs by using the concepts of efficiency or productivity which is measured as the ratio of total outputs to total inputs. Also, the efficiencies estimated are relative to the best performing DMU or DMUs. The best performing DMU is given a score of 100% and the performance of other DMUs vary between 0 -100%.

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan Bibliography

- Sales Rank: #11813191 in Books
- Published on: 2003-08-18
- Original language: English
- Number of items: 1
- Dimensions: .59" h x 5.80" w x 8.74" l, 1.10 pounds

- Binding: Hardcover
- 202 pages

 [Download An Introduction to Data Envelopment Analysis: A To ...pdf](#)

 [Read Online An Introduction to Data Envelopment Analysis: A ...pdf](#)

Download and Read Free Online An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan

Editorial Review

About the Author

R Ramanathan is Assistant Professor, Operations Management and Business Statistics, at the College of Commerce and Economics, Sultan Qaboos University, Sultanate of Oman. Courses he has taught include basic and advanced topics in optimization theory, data envelopment analysis, management science, business statistics, simulation, energy and environmental economics, and energy and transport economics.

His research interests include operations management and economic and policy analysis of issues in education and the infrastructure sectors of energy and transport. This has involved the use of modelling techniques such as optimization, decision analysis, data envelopment analysis, and the analytic hierarchy process.

His works include a chapter on urban transport in India Development Report, 1999, published by Oxford University Press and a chapter on multi-criteria analysis of energy in the Encyclopedia of Energy to be published by Academic Press (Elsevier Science). He has authored a book on Indian transport and jointly authored a book on India-specific issues of climate change. Both books are likely to be published in 2003. His research papers have been published in leading journals in the field of operations research, energy, transport, environmental management, planning and accountancy.

The author has participated in international conferences on operational research, multi-criteria decision analysis, decision support systems, and environment and ecology, such as the triennial conference of the International Federation of Operational Research Societies (IFORS), (Vancouver, Canada, 1996) and the European Operational Research Conference (Rotterdam, the Netherlands, 2001).

Users Review

From reader reviews:

Nathan Ramsey:

What do you about book? It is not important along with you? Or just adding material if you want something to explain what the one you have problem? How about your spare time? Or are you busy man? If you don't have spare time to try and do others business, it is gives you the sense of being bored faster. And you have extra time? What did you do? Every person has many questions above. The doctor has to answer that question because just their can do that will. It said that about reserve. Book is familiar on every person. Yes, it is correct. Because start from on jardín de infancia until university need this particular An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement to read.

Christopher Jones:

Would you one of the book lovers? If so, do you ever feeling doubt while you are in the book store? Make an effort to pick one book that you never know the inside because don't determine book by its handle may

doesn't work the following is difficult job because you are afraid that the inside maybe not since fantastic as in the outside appearance likes. Maybe you answer is usually An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement why because the great cover that make you consider with regards to the content will not disappoint you actually. The inside or content is definitely fantastic as the outside or cover. Your reading sixth sense will directly guide you to pick up this book.

Jennifer Galaviz:

Is it anyone who having spare time subsequently spend it whole day simply by watching television programs or just resting on the bed? Do you need something new? This An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement can be the solution, oh how comes? It's a book you know. You are consequently out of date, spending your time by reading in this fresh era is common not a nerd activity. So what these publications have than the others?

Tony Hill:

Reading a guide make you to get more knowledge from it. You can take knowledge and information coming from a book. Book is published or printed or outlined from each source that filled update of news. On this modern era like currently, many ways to get information are available for you actually. From media social just like newspaper, magazines, science e-book, encyclopedia, reference book, fresh and comic. You can add your understanding by that book. Are you ready to spend your spare time to spread out your book? Or just seeking the An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement when you necessary it?

Download and Read Online An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan #DQCT0WI91J6

Read An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan for online ebook

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan books to read online.

Online An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan ebook PDF download

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan Doc

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan Mobipocket

An Introduction to Data Envelopment Analysis: A Tool for Performance Measurement By R Ramanathan EPub