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Chapter 16 presents shared resources models for deriving aggregate measures of branch-internal cost efficiency and its decompositions in network DEA under three types of structures, namely series, parallel, and dynamic. Chapter 17 extends this concept to a set of manufacturing plans operating under a single umbrella, with the objective being to use the component or function measures to decide what might be considered as each plant's core business. Chapter 18 considers priority data envelopment analysis (DEA) where there is no information on targets. Chapter 19 introduces the use of DMUs which are defined as a set of electricity power plants is examined in Chapter 20. Chapter 19 models bad outputs in two-stage network DEA. Chapter 20 presents a two-stage network DEA model, which is an extension of the earlier work by Moutinho, Charnes, and Zhongbao Zhou. Chapter 21 presents an application of a two-stage network DEA model for the performance evaluation of the 30 S. airlines companies. Chapter 22 presents two distinct network efficiency models that are applied to engineering systems.
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An Introduction to Data Envelopment Analysis-II Ramzanali 2003-08-05 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' - Ferwer A. Leontea, Delphi 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 boards, banks, hospitals, power plants, police stations, presidiums, 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 that 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%.

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