

Applied Production Analysis – A Dual Approach

Errata

Arne Henningsen

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The book “Applied Production Analysis – A Dual Approach” by Robert G. Chambers (1988, Cambridge University Press) is my favourite textbook in applied production economics. Although it is very well written, it has a few typos that could confuse the reader. Here are the typos that I know of:

- page 29, first equation:

$$x_i^* = x_i(x_1, x_2, \dots, x_{i-1}, x_{i+1}, \dots, x_n, y)$$

- page 29, second equation (eq. 1.10):

$$y = f(x_1, \dots, x_{i-1}, x_i^*, x_{i+1}, \dots, x_n)$$

- page 29, fourth equation (eq. 1.11):

$$\frac{\partial x_i}{\partial x_j} = -\frac{\partial f / \partial x_j}{\partial f / \partial x_i}$$

- page 33, second equation (eq. 1.15):

$$\sigma_{ij} = \frac{\sum_k x_k f_k}{x_i x_j} \frac{F_{ij}}{F}$$

- page 35, first line of text:

$$K_i = x_i f_i / \sum_k x_k f_k$$

- page 35, fourth equation (eq. 1.16):

$$\sigma_{ij}^N = \frac{f_i}{x_i} \frac{F_{ij}}{F} - \frac{f_j}{x_j} \frac{F_{ji}}{F}$$

Applied Production Analysis A Dual Approach

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Dabkienė**



Applied Production Analysis A Dual Approach:

Applied Production Analysis Robert G. Chambers, 1988-07-29 This book contains a modern treatment of production economics from a dual perspective with special emphasis on recent developments Results that were scattered throughout professional journals and monographs are now gathered into an integrated approach using a common notation The book prepares the reader to apply the tools of the dual approach to real world problems and data sets Particular care has been devoted to choosing topics for discussion that achieve this goal Throughout the book there are worked examples and exercises which are geared toward developing the reader's facility in using modern developments in production economics Separate chapters are devoted to production cost and profit functions Other topics include flexible functional forms aggregation across inputs and outputs using the theory of separable structures aggregation over economic optimizing firms the representation of multioutput technologies and the analysis and measurement of technical change from both a primal and a dual perspective *International Handbook on the Economics of Energy* Lester C. Hunt, Joanne Evans, 2011-01-01 As an essential component for economic growth energy has a significant impact on the global economy The need to meet growing energy demand has prompted cutting edge innovation in clean technology in an attempt to realise environmental and cost objectives whilst ensuring the security of energy supply This Handbook offers a comprehensive review of the economics of energy including contributions from a distinguished array of international specialists It provides a thorough discussion of the major research issues in this topical field of economics Themes addressed include the theory of energy supply demand and policy empirical modelling of energy demand holistic energy models an analysis of coal gas electricity oil and the markets within which they operate and a discussion of the current key energy policy issues The topics of pricing transmission regulation security energy efficiency new technologies and climate change are also discussed The International Handbook on the Economics of Energy presents a comprehensive overview of the state of the art research making it an indispensable reference for researchers advanced students practitioners and policy makers alike Journal of Agricultural Economics Research, 1991 *Agrobiodiversity Conservation and Economic Development* Andreas Kontoleon, Unai Pascual, Melinda Smale, 2008-10-03 Pt 1 Policy perspectives pt 2 Multiple objectives trade offs and synergies between productivity and agrobiodiversity pt 3 Market and non market institutions for agrobiodiversity conservation **Spatial Econometric Methods in Agricultural Economics Using R** Paolo Postiglione, Roberto Benedetti, Federica Piersimoni, 2021-12-22 Modern tools such as GIS and remote sensing are increasingly used in the monitoring of agricultural resources The developments in GIS technology offer growing opportunities to agricultural economics analysts dealing with large and detailed spatial databases allowing them to combine spatial information from different sources and to produce different models The availability of these valuable sources of information makes the advanced models suggested in the spatial statistic and econometric literature applicable to agricultural economics This book aims at supporting stakeholders to design spatial

surveys for agricultural data and or to analyse the geographically collected data This book attempts to describe the main typology of agricultural data and the most appropriate methods for the analysis together with a detailed description of the available data sources and their collection methods Topics such as spatial interpolation point patterns spatial autocorrelation survey data analysis small area estimation regional data modelling and spatial econometrics techniques are covered jointly with issues arising from the integration of several data types The theory of spatial methods is complemented by real and or simulated examples implemented through the open source software R

Structural Change, Productivity, and Climate Nexus in Agriculture Tomas Baležentis, Dalia Štreimikienė, Nelė Jurkėnaitė, Vida Dabkienė, 2021-06-25 This monograph addresses the methodological and empirical issues relevant for the development of sustainable agriculture with a particular focus on Eastern Europe It relates economic growth to the other dimensions of sustainability by applying integrated methods The book comprises five chapters dedicated to the theoretical approaches towards sustainable rural development productivity analysis structural change analysis and environmental footprint The book focuses on the transformations of the agricultural sector while taking into account economic environmental and social dynamics The importance of agricultural transformations to the livelihood of the rural population and food security are highlighted Further advanced methodologies and frameworks are presented to fathom the underlying trends in different facets of agricultural production The authors present statistical methods used for the analysis of agricultural sustainability along with applications for agriculture in the European Union Additionally they discuss the measures of efficiency methodological approaches and empirical models Finally the book applies econometric and optimization techniques which are useful for the estimation of the production functions and other representations of technology in the case of the European Union member states Therefore the book is a must read for researchers and students of agricultural and production economics as well as policy makers and academia in general

Environmental Research at the Leading Edge Alfred B. Gore, 2007 The environment is considered the surroundings in which an organism operates including air water land natural resources flora fauna humans and their interrelation It is this environment which is both so valuable on the one hand and so endangered on the other And it is people who are by and large ruining the environment both for themselves and for all other organisms This book reviews the latest research in this field which is vital for everyone

Pricing non-marketed goods using distance functions Fare Rolf, Grosskopf Shawna, Margaritis Dimitris, 2019-06-17 Written by production economics and finance specialists Rolf Fare and Shawna Grosskopf of Oregon State University and Dimitris Margaritis of the University of Auckland Pricing Non marketed Goods Using Distance Functions is an inspiring new contribution highlighting the importance of duality theory for valuation purposes especially for hard to price inputs or resources intended or unintended goods and assets The theoretical pricing models are supplemented by self standing empirical applications covering real estate pricing environmental preservation transfer pricing shadow prices of university knowledge outputs and spillovers and the pricing of bank equity capital and non

performing loans A Production Function-based Policy Stimulation Model of Perennial Commodity Markets Takamasa Akiyama, Jonathan R. Coleman, Banco Mundial, 1993 **Multi-Output Production and Duality: Theory and Applications** Rolf Färe, Daniel Primont, 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

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