

# **Applied production analysis**

*A dual approach*

**ROBERT G. CHAMBERS**



# Applied Production Analysis A Dual Approach

**Takamasa Akiyama,Jonathan R.  
Coleman,Banco Mundial**



## **Applied Production Analysis A Dual Approach:**

Applied Production Analysis Robert G. Chambers,1989      *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      **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

**Agrobiodiversity Conservation and Economic Development** Andreas Kontoleon,Unai Pascual,Melinda Smale,2008-10-03 This book reflects current developments in the economics of agrobiodiversity and focuses its attention on the role agrobiodiversity can have for economic development As a new and rapidly expanding subfield at the interface of environmental ecological agricultural and development economics the editors and contributors to this volume provide a thorough structured and authoritative coverage of this field Topics covered include the economic modelling of agrobiodiversity policy and governance solutions for the conservation of biodiversity in agricultural landscapes contracts markets and valuation The authors include well known and respected academics and researchers who have a real policy perspective into the role of agrobiodiversity and economic development The book provides coherent and up to date coverage of the economics of in situ agrobiodiversity conservation which is to a large extent currently absent Though the material in the volume is primarily written for economists its content and style are highly relevant and accessible to ecologists and conservation biologists and to academics from other broad disciplines that are located within the areas of economics and ecology

Duality and Modern Economics Richard Cornes,1992-02-28 Provides a simple introductory exposition to the basic structure of dual technique analysis consumer behaviour and producer behaviour which has been used by many economists since the 1970s Includes diagrams and an index

*International Research on Natural Resource Management* Hermann Waibel,David Zilberman,2007-01-01 Over the past two decades significant

investment has been made into agriculture related natural resource management research in developing countries This collection of case studies establishes a methodological foundation for impact assessments of NRMR through a discussion of research conducted by the CGIAR around the world

**Production Economics** Svend Rasmussen, 2012-08-04 This book covers the basic theory of how what and when firms should produce to maximise profits Based on the neoclassical theory of the firm presented in most general microeconomic textbooks it extends the general treatment and focuses on the application of the theory to specific problems that the firm faces when making production decisions to maximise profits Increasing level of government regulation and the use of specialised and often very expensive equipment in modern production motivates the following focus areas 1 How to optimise production under restrictions 2 Treatment of fixed inputs and the process of input fixation 3 Optimisation of production over time 4 Linear and Mixed Integer Programming as tools for optimisation in practice This updated second edition includes a more comprehensive introduction to the theory of decision making under risk and uncertainty as well as a new chapter on how to use linear programming to generate the supply function of the firm

**Science for Agriculture** Wallace E. Huffman, Robert E. Evenson, 2008-02-28 Science for Agriculture was the first thorough quantitative and analytical treatment of the history of the U S agricultural research system and as such has served as the foundation for research over the 10 years since its publication The benefits from public and private investment in agricultural research are immense and should be understood by every student of the agricultural science system in the United States The second edition updates important landmarks components characteristics and trends of the U S system for developing and applying science to increase the productivity and advancements of agriculture Science for Agriculture 2e is essential reading for agriculture educators and researchers Land Grant administrators food and agri industry R D and all others who need to understand the factors that will influence future public agricultural research policy

**Price Dispersion in U.S. Manufacturing** Thomas A. Abbott, 1992

**Forests in a Market Economy** Erin O. Sills, Karen Lee Abt, 2013-04-17 This book draws together contributions from forest economists in the Research Triangle of North Carolina with co authors from institutions around the world It represents our common belief that rigorous empirical analysis in an economic framework can inform forest policy We intend the book as a guide to the empirical methods that we have found most useful for addressing both traditional and modern areas of concern in forest policy including timber production and markets multiple use forestry and valuation of non market benefits The book editors and most chapter authors are affiliated with three institutions in the Research Triangle the Southern Research Station of the USDA Forest Service K Abt Butry Holmes Mercer Moulton Prestemon Wear the Department of Forestry at North Carolina State University R Abt Ahn Cubbage Sills and the Environmental and Natural Resource Economics Program of Research Triangle Institute Murray Pattanayak Two other Triangle institutions are also represented among the book authors Duke University Kramer and the Forestland Group Zinkhan In addition to our primary affiliations many of us are adjunct faculty and or graduates of Triangle universities Many

of our co authors also graduated from or were previously affiliated with Triangle institutions Thus the selection of topics methods and case studies reflects the work of this particular network of economists and to some degree our location in the southeastern United States However our work and the chapters encompass other regions of the United States and the world including Latin America and Asia      *Measurement of Productivity and Efficiency* Robin C. Sickles,Valentin

Zelenyuk,2019-03-28 Provides a comprehensive approach to productivity and efficiency analysis using economic and econometric theory      *Full Industry Equilibrium* Arrigo Opocher,Ian Steedman,2015-05-28 This original book develops a systematic zero net profit comparative statics theory to shed new light on the microeconomics of industry equilibrium

**Maize revolution in West and Central Africa** ,2003      *Peasant Economics* Frank Ellis,1993-11-25 This is a revised and expanded edition of a popular textbook on the economics of farm households in developing countries The second edition retains the same building blocks designed to explore household decision making in a social context Key topics are efficiency risk time allocation gender agrarian contracts farm size and technological change For these and other topics household economic behaviour represents the outcome of social interactions within the household and market interactions outside the household A new chapter on the environment combines exposition of economic tools not previously covered in the book with examination of household and community decision making in relation to environmental resources      **Market Effects of**

**Crop Support Measures** OECD,2001-09-12 This publication compares the market impacts of market price support and several kinds of budgetary direct payments using indicators of economic efficiency and trade distortion      On the Estimation of Supply and Demand Elasticities of Agricultural Commodities Santeramo, Fabio Gaetano, This AGRODEP Technical Note provides a literature review on the topic of estimation of demand and supply elasticities To this end it starts the discussion by summarizing the main facets of production theory and consumer theory to introduce the concept of elasticities with examples of different types of elasticities most utilized in the literature Next it discusses the identification problem in estimating elasticities i e the issue of having to solve for unique values of the parameters of the structural model from the values of the parameters of the reduced form of the model It summarizes various methodologies employed in the literature to solve this problem and gives practical examples These solutions include but are not limited to using instrumental variables adopting a recursive structure holding demand constant and imposing inequality constraints in order to restrict the domain of estimates

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