

# Lecture Notes in Economics and Mathematical Systems

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Mathematical Economics

120

Georg Hasenkamp

Specification and Estimation of  
Multiple-Output Production Functions



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# Specification And Estimation Of Multiple Output Production Functions Lecture Notes In Economics And Mathematical Systems 1

**R.M. Goodwin, M. Krüger, A. Vercelli**



## **Specification And Estimation Of Multiple Output Production Functions Lecture Notes In Economics And Mathematical Systems 1:**

**Specification and Estimation of Multiple-Output Production Functions** G. Hasenkamp, 2012-12-06 This monograph is intended as a contribution to applied work in production theory by treating a The measurement problems involved whenever several outputs are jointly produced and b The possible econometric framework for estimating production function parameters whenever relative prices vary sufficiently over the observations Thus the pure theory of production and the theory of non linear regression is not treated in sufficient detail for these topics we refer to the available literature for a comprehensive list of references we refer to Uebe 1975 Some years ago papers by L J Lau and W E Diewert initiated my interest in duality within production theory and then I started to appreciate R W Shephard s fundamental contribution to this topic This monograph is a minor revision of a Ph D dissertation submitted to the Department of Economics The University of Wisconsin Madison in August 1973 The Graduate School and the Social Systems Research Institute provided funds for the reported computer work Lawrence R Klein and Laurits R Christensen provided data and as a Graduate Student I received financial support in form of an University Fellowship all this is very much appreciated With some nostalgia I think back to the enjoyable period of learning during the preparation of my diFosertation I appreciate the spirit within the department and the guidance of my committee Arthur S Goldberger Dennis J Aigner and Laurits R Christensen *Notes on Economic Time*

*Series Analysis: System Theoretic Perspectives* Masanao Aoki, 2012-12-06 In seminars and graduate level courses I have had several opportunities to discuss modeling and analysis of time series with economists and economic graduate students during the past several years These experiences made me aware of a gap between what economic graduate students are taught about vector valued time series and what is available in recent system literature Wishing to fill or narrow the gap that I suspect is more widely spread than my personal experiences indicate I have written these notes to augment and reorganize materials I have given in these courses and seminars I have endeavored to present in as much a self contained way as practicable a body of results and techniques in system theory that I judge to be relevant and useful to economists interested in using time series in their research I have essentially acted as an intermediary and interpreter of system theoretic results and perspectives in time series by filtering out non essential details and presenting coherent accounts of what I deem to be important but not readily available or accessible to economists For this reason I have excluded from the notes many results on various estimation methods or their statistical properties because they are amply discussed in many standard texts on time series or on statistics **Handbook of Production Economics** Subhash C. Ray, Robert G. Chambers, Subal C. Kumbhakar, 2022-06-02 This three volume handbook includes state of the art surveys in different areas of neoclassical production economics Volumes 1 and 2 cover theoretical and methodological issues only Volume 3 includes surveys of empirical applications in different areas like manufacturing agriculture banking energy and environment and so forth

### **Bayesian Full Information Analysis of Simultaneous Equation Models Using Integration by Monte Carlo** L.

Bauwens, 2012-12-06 In their review of the Bayesian analysis of simultaneous equation systems Dr ze and Richard 1983 hereafter DR express the following viewpoint about the present state of development of the Bayesian full information analysis of such systems i the method allows a flexible specification of the prior density including well defined noninformative prior measures ii it yields exact finite sample posterior and predictive densities However they call for further developments so that these densities can be evaluated through numerical methods using an integrated software package To that end they recommend the use of a Monte Carlo technique since van Dijk and Kloek 1980 have demonstrated that the integrations can be done and how they are done In this monograph we explain how we contribute to achieve the developments suggested by Dr ze and Richard A basic idea is to use known properties of the posterior density of the parameters of the structural form to design the importance functions i.e. approximations of the posterior density that are needed for organizing the integrations

### **Dynamics of Macrosystems** Jean-P. Aubin, Donald Saari, Karl Sigmund, 2013-03-14 *The M/M/ $\infty$ Service System with*

*Ranked Servers in Heavy Traffic* G.F. Newell, 2012-12-06 We are concerned here with a service facility consisting of a large finite number of servers in parallel The service times for all servers are identical but there is a preferential ordering of the servers Each newly arriving customer enters the lowest ranked available server and remains there until his service is completed It is assumed that customers arrive according to a Poisson process of rate  $A$  that all servers have exponentially distributed service times with rate  $\mu$  and that  $\mu/A$  is large compared with 1 Generally we are concerned with the stochastic properties of the random function  $N_s(t)$  describing the number of busy servers among the first  $s$  ordered servers at time  $t$  Most of the analysis is motivated by special applications of this model to telephone traffic If one has a trunk line with  $s$  primary channels but a large number  $\infty$  of secondary overflow channels each newly arriving customer is assigned to one of the primary channels if any are free otherwise he is assigned to a secondary channel The primary and secondary channels themselves could have a preferential ordering For some purposes it is convenient to imagine that they did even if an ordering is irrelevant Econometric Modelling of the World Trade in Groundfish W.E Schrank, Noel Roy, 2012-12-06 This conference

brought together an international group of fisheries economists from academia business government and intergovernmental agencies to consider a coordinated project to build an econometric model of the world trade in groundfish A number of the conference participants had just spent up to six weeks at Memorial University of Newfoundland working and preparing papers on the project This volume presents the papers that these scholars produced plus additional papers prepared by other conference participants In addition various lectures and discussions which were transcribed from tapes made of the proceedings are included The introductory essay explains the genesis of the conference describes the approach taken to modelling the groundfish trade very briefly summarizes the technical papers and describes future plans The project is continuing as planned and a second conference was held in St John's in August 1990 The conference was a NATO

Advanced Research Workshop and we wish to thank the Scientific Affairs Division of NATO for their financial support. Additional financial support was received from the Canadian Centre for Fisheries Innovation in St John's, the Department of Fisheries and Oceans of the Government of Canada, the Department of Fisheries of the Government of Newfoundland and Labrador, Memorial University of Newfoundland and Air Nova; we acknowledge with appreciation their help.

**Resource Extraction and Market Structure** Martin Schäfer, 2012-12-06

**Selected Topics in Operations Research and Mathematical Economics** G. Hammer, Diethard Pallaschke, 2012-12-06

Let  $E^N$  be the usual vector space of real  $N$ -uples with the usual inner product denoted by  $\langle \cdot, \cdot \rangle$ . In this paper  $P$  is a nonempty compact polyhedral set of  $E^N$ ,  $f$  is a real valued function defined on  $E^N$ , continuously differentiable and  $f|_P$  is the linearly constrained minimization problem stated as  $\min_{x \in P} f(x)$ . For computing stationary points of problem  $t_j$  we propose a method which attempts to operate within the linear simplex method structure. This method then appears as a same type of method as the convex simplex method of Zangwill. It is however different and has the advantage of being less technical with regards to the Zangwill method. It has also a simple geometrical interpretation which makes it more understandable and more open to other improvements. Also in the case where  $f$  is convex an implementable line search is proposed which is not the case in the Zangwill method. Moreover if  $f(x) \leq c$  this method will coincide with the simplex method; this is also true in the case of the convex simplex method if  $f(x) \leq c$  it will be almost the same as the algorithm given by Bazaraa, Goode and Rardin.

**Foundations of Non-stationary Dynamic Programming with Discrete Time Parameter** K. Hinderer, 2012-12-06

The present work is an extended version of a manuscript of a course which the author taught at the University of Hamburg during summer 1969. The main purpose has been to give a rigorous foundation of stochastic dynamic programming in a manner which makes the theory easily applicable to many different practical problems. We mention the following features which should serve our purpose:

- a) The theory is built up for non stationary models thus making it possible to treat e.g. dynamic programming under risk, dynamic programming under uncertainty, Markovian models, stationary models and models with finite horizon from a unified point of view.
- b) We use that notion of optimality  $p$ -optimality which seems to be most appropriate for practical purposes.
- c) Since we restrict ourselves to the foundations we did not include practical problems and ways to their numerical solution but we give (cf. section 8) a number of problems which show the diversity of structures accessible to non stationary dynamic programming.

The main sources were the papers of Blackwell (65), Strauch (66) and Maitra (68) on stationary models with general state and action spaces and the papers of Dynkin (65), Hinderer (67) and Sirjaev (67) on non stationary models. A number of results should be new whereas most theorems constitute extensions usually from stationary models to non stationary models or analogues to known results.

**A Disequilibrium Model of Real and Financial Accumulation in an Open Economy** Giancarlo Gandolfo, Pietro C. Padoan, 2012-12-06

This is the fourth version of a model that five years ago we set out to build and estimate along the lines of the continuous time approach clarified in chapter 1. Previous versions appeared in journal articles.

and conference proceedings where the space is notoriously limited Therefore we welcome the possibility of publishing a book length treatment of this fourth version so that we can describe its theoretical and empirical aspects in some detail Although we have worked closely together and accept joint responsibility for the whole book chs 1 and 2 and appendix I have been written by G Gandolfo whilst chs 3 and 4 and appendix II have been written by P c Padoan Different parts of this version of the model have been discussed In various lectures at the European University Institute Florence in 1984 In a seminar organized by the Bank of Italy Sadiba Perugia Italy February 16 18 1984 in the second Viennese Workshop on Economic Applications of Control Theory Vienna May 16 18 1984 and in the sixth annual Conference of the Society for Economic Dynamics and Control Nice France June 13 15 1984 In all of these we received helpful comments similarly helpful were the comments of Clifford R Wymer who however is absolved of any responsibility Energy Systems Analysis for Developing Countries P.

Meier,2012-12-06 The lecture notes presented in these pages were originally developed for use in the Energy Management Training Program EMTP sponsored by the Office of Energy U S Agency for International Development This program held at Brookhaven National Laboratory BNL and the Institute for Energy Research State University of New York at Stony Brook is designed to train mid career and senior government officials in developing countries in the techniques of energy policy analysis and planning and covers in addition to the material presented here more detailed case studies in resource evaluation pricing conservation financial analysis and investment planning Since its inception in 1978 some 220 individuals from 57 countries have attended the course These notes have also been used in executive level seminars and in country training programs in the Sudan the Dominican Republic and the People s Republic of China Attendance at the course is diverse and typically includes planners managers engineers and economists from energy planning agencies ministries of finance and economic development electric utilities refineries and State Oil Companies and specialized energy planning units for energy conservation and for regional cooperation The monograph is designed not just as reading material to support lectures but also as a general self contained reference text for a very diverse audience we have therefore included much introductory material The presentation is focused on a discussion of the basic principles of systems analysis and the case material has been specially designed to illustrate these principles **Convexity and Duality in Optimization** Jacob

Ponstein,2012-12-06 The analysis and optimization of convex functions have received a great deal of attention during the last two decades If we had to choose two key words from these developments we would retain the concept of subdifferential and the duality theory As it usual in the development of mathematical theories people had since tried to extend the known definitions and properties to new classes of functions including the convex ones For what concerns the generalization of the notion of subdifferential tremendous achievements have been carried out in the past decade and any mathematician who is faced with a nondifferentiable nonconvex function has now a panoply of generalized subdifferentials or derivatives at his disposal A lot remains to be done in this area especially concerning vector valued functions however we think the golden age for these

researches is behind us Duality theory has also fascinated many mathematicians since the underlying mathematical framework has been laid down in the context of Convex Analysis The various duality schemes which have emerged in the recent years despite of their mathematical elegance have not always proved as powerful as expected

**Macro-Economic Planning with Conflicting Goals** M. Despontin, P. Nijkamp, J. Spronk, 2012-12-06

**Nondifferentiable Optimization: Motivations and Applications** Vladimir F. Demyanov, Diethard Pallaschke, 2013-06-29

The International Institute for Applied Systems Analysis IIASA in Laxenburg Austria has been involved in research on nondifferentiable optimization since 1976 IIASA based East West cooperation in this field has been very productive leading to many important theoretical algorithmic and applied results Nondifferentiable optimization has now become a recognized and rapidly developing branch of mathematical programming To continue this tradition and to review recent developments in this field IIASA held a Workshop on Nondifferentiable Optimization in Sopron Hungary in September 1964 The aims of the Workshop were 1 To discuss the state of the art of nondifferentiable optimization NDO its origins and motivation 2 To compare various algorithms 3 To evaluate existing mathematical approaches their applications and potential 4 To extend and deepen industrial and other applications of NDO The following topics were considered in separate sessions General motivation for research in NDO nondifferentiability in applied problems nondifferentiable mathematical models Numerical methods for solving nondifferentiable optimization problems numerical experiments comparisons and software Nondifferentiable analysis various generalizations of the concept of subdifferentials Industrial and other applications This volume contains selected papers presented at the Workshop It is divided into four sections based on the above topics I Concepts in Nonsmooth Analysis II Multicriteria Optimization and Control Theory III Algorithms and Optimization Methods IV Stochastic Programming and Applications We would like to thank the International Institute for Applied Systems Analysis particularly Prof V Kaftanov and Prof A B Kurzhanski for their support in organizing this meeting

*Stochastic Models in Reliability Theory* S. Osaki, Y. Hatoyama, 2013-03-08

*Nonlinear Models of Fluctuating Growth* R.M. Goodwin, M. Krüger, A. Vercelli, 2012-12-06

*Optimization and Discrete Choice in Urban Systems* Bruce G. Hutchinson, Peter Nijkamp, Michael Batty, 2012-12-06

The papers contained in this volume were originally presented at the International symposium on New Directions in Urban Systems Modelling held at the University of Waterloo in July 1983 The papers have been reviewed and rewritten since that time The exception is the introductory paper written specially by Manfred Fischer and Peter Nijkamp as an introduction to this volume The manuscript was prepared in the word processing unit in the department of Civil Engineering university of Waterloo The sustained work of Mrs I Steffler in preparing this manuscript is gratefully acknowledged R K Kumar provided excellent assistance with the editorial process The symposium and the preparation of this manuscript were supported financially by the Natural Sciences and Engineering Research Council of Canada The Academic Development Fund and the Department of Civil Engineering University of Waterloo

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Analysis in a Spatial Context Manfred Fischer and Peter Nijkamp      Dynamic Feature Space Modelling, Filtering and Self-Tuning Control of Stochastic Systems Pieter W. Otter, 2012-12-06 The literature on systems seems to have been growing almost exponentially during the last decade and one may question whether there is need for another book In the author's view most of the literature on systems is either technical in mathematical sense or technical in engineering sense with technical words such as noise filtering etc and not easily accessible to researchers in other fields in particular not to economists econometricians and quantitative researchers in social sciences This is unfortunate because achievements in the rather young science of system theory and system engineering are of importance for modelling estimation and regulation control problems in other branches of science State space modelling the concept of observability and controllability the mathematical formulations of stability the so called canonical forms prediction error estimation optimal control and Kalman filtering are some examples of results of system theory and system engineering which proved to be successful in practice A brief summary of system theoretical concepts is given in Chapter II where an attempt has been made to translate the concepts into the more familiar language used in econometrics and social sciences by means of examples By interrelating concepts and results from system theory with those from econometrics and social sciences the author has attempted to narrow the gap between the more technical sciences such as engineering and social sciences and econometrics and to contribute to either side

*Interactive Decision Analysis* M. Grauer, A.P. Wierzbicki, 2013-03-14 During the week of September 20-23 1983 an International Workshop on Interactive Decision Analysis and Interpretative Computer Intelligence was held at the International Institute for Applied Systems Analysis IIASA in Laxenburg Austria More than fifty scientists representing seventeen countries participated The aim of the Workshop was to review existing approaches to problems involving multiple conflicting objectives to look at methods and techniques for interactive decision analysis and to demonstrate the use of existing interactive decision support systems The Workshop was motivated firstly by the realization that the rapid development of computers especially microcomputers will greatly increase the scope and capabilities of computerized decision support systems It is important to explore the potential of these systems for use in handling the complex technological environmental economic and social problems that face the world today Research in decision support systems also has another less tangible but possibly more important motivation The development of efficient systems for decision support requires a thorough understanding of the differences between the decision making processes in different nations and cultures An understanding of the different rationales underlying decision making is not only necessary for the development of efficient decision support systems but is also an important factor in encouraging international understanding and cooperation



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