



# **Optimal Control Theory and Static Optimization in Economics**

**Daniel Léonard and  
Ngo Van Long**



# Optimal Control Theory And Static Optimization In Economics

**Jean-Pascal Benassy**



## **Optimal Control Theory And Static Optimization In Economics:**

**Optimal Control Theory and Static Optimization in Economics** Daniel Léonard, Ngo van Long, 1992-01-31 Optimal control theory is a technique being used increasingly by academic economists to study problems involving optimal decisions in a multi period framework This textbook is designed to make the difficult subject of optimal control theory easily accessible to economists while at the same time maintaining rigour Economic intuitions are emphasized and examples and problem sets covering a wide range of applications in economics are provided to assist in the learning process Theorems are clearly stated and their proofs are carefully explained The development of the text is gradual and fully integrated beginning with simple formulations and progressing to advanced topics such as control parameters jumps in state variables and bounded state space For greater economy and elegance optimal control theory is introduced directly without recourse to the calculus of variations The connection with the latter and with dynamic programming is explained in a separate chapter A second purpose of the book is to draw the parallel between optimal control theory and static optimization Chapter 1 provides an extensive treatment of constrained and unconstrained maximization with emphasis on economic insight and applications Starting from basic concepts it derives and explains important results including the envelope theorem and the method of comparative statics This chapter may be used for a course in static optimization The book is largely self contained No previous knowledge of differential equations is required [Optimal Control Theory and Static Optimization in Economics](#) D. Léonard, 1998

*Optimal Control Theory and Static Optimization in Economics* Daniel Léonard, Ngo van Long, 1992-01-31 Optimal control theory is a technique being used increasingly by academic economists to study problems involving optimal decisions in a multi period framework This textbook is designed to make the difficult subject of optimal control theory easily accessible to economists while at the same time maintaining rigour Economic intuitions are emphasized and examples and problem sets covering a wide range of applications in economics are provided to assist in the learning process Theorems are clearly stated and their proofs are carefully explained The development of the text is gradual and fully integrated beginning with simple formulations and progressing to advanced topics such as control parameters jumps in state variables and bounded state space For greater economy and elegance optimal control theory is introduced directly without recourse to the calculus of variations The connection with the latter and with dynamic programming is explained in a separate chapter A second purpose of the book is to draw the parallel between optimal control theory and static optimization Chapter 1 provides an extensive treatment of constrained and unconstrained maximization with emphasis on economic insight and applications Starting from basic concepts it derives and explains important results including the envelope theorem and the method of comparative statics This chapter may be used for a course in static optimization The book is largely self contained No previous knowledge of differential equations is required

**Optimal Control Theory** Zhongjing Ma, Suli Zou, 2021-01-30 This book focuses on how to implement optimal control problems via the variational method It studies how to implement the

extrema of functional by applying the variational method and covers the extrema of functional with different boundary conditions involving multiple functions and with certain constraints etc It gives the necessary and sufficient condition for the continuous time optimal control solution via the variational method solves the optimal control problems with different boundary conditions analyzes the linear quadratic regulator tracking problems respectively in detail and provides the solution of optimal control problems with state constraints by applying the Pontryagin's minimum principle which is developed based upon the calculus of variations And the developed results are applied to implement several classes of popular optimal control problems and say minimum time minimum fuel and minimum energy problems and so on As another key branch of optimal control methods it also presents how to solve the optimal control problems via dynamic programming and discusses the relationship between the variational method and dynamic programming for comparison Concerning the system involving individual agents it is also worth to study how to implement the decentralized solution for the underlying optimal control problems in the framework of differential games The equilibrium is implemented by applying both Pontryagin's minimum principle and dynamic programming The book also analyzes the discrete time version for all the above materials as well since the discrete time optimal control problems are very popular in many fields      *Optimal Control Theory* Suresh P. Sethi, Gerald L. Thompson, 2005-09-06 Optimal control methods are used to determine optimal ways to control a dynamic system The theoretical work in this field serves as a foundation for the book which the authors have applied to business management problems developed from their research and classroom instruction Sethi and Thompson have provided management science and economics communities with a thoroughly revised edition of their classic text on Optimal Control Theory The new edition has been completely refined with careful attention to the text and graphic material presentation Chapters cover a range of topics including finance production and inventory problems marketing problems machine maintenance and replacement problems of optimal consumption of natural resources and applications of control theory to economics The book contains new results that were not available when the first edition was published as well as an expansion of the material on stochastic optimal control theory      *Economists' Mathematical Manual* Knut Sydsaeter, Arne Strøm, Peter Berck, 2011-10-20 This volume presents mathematical formulas and theorems commonly used in economics It offers the first grouping of this material for a specifically economist audience and it includes formulas like Roy's identity and Leibniz's rule      **Research Tools In Natural Resource And Environmental Economics** Amitrajeet A. Batabyal, Peter Nijkamp, 2011-05-26 A collection of scholarly accounts and articles written by recognized experts in environmental economics this book is the first of its kind and as a valuable reference and textual source for graduate students and active researchers It draws together the pedagogical discussion of the key tools used to conduct theoretical and empirical research in natural resource and environmental economics With contributions by prominent international researchers like Robert Ayres Charles Perrings and Anastasios Xepapadeas the book will be useful for researchers who wish to learn new techniques or change

their area of research emphasis within natural resource and environmental economics or those who wish to familiarize themselves with these tools

**Mathematical Bioeconomics** Colin W. Clark, 2010-05-24 Overall this is an appealing work for students and professionals and is certain to remain as one of the key works in natural resource analysis

**Mathematical Reviews** Biological renewable resources essential to the survival of mankind are increasingly overexploited by individuals and corporations that often sacrifice long term economic health and sustainability for short term gains

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**Classic Papers in Natural Resource Economics Revisited** Chennat Gopalakrishnan, 2018-02-02 Classic Papers in Natural Resource Economics Revisited is the first attempt to bring together a selection of classic papers in natural resource economics alongside reflections by highly regarded professionals about how these papers have impacted the field The seven papers included in this volume are grouped into five sections representing the five core areas in natural resource economics the intertemporal problem externalities and market failure property rights institutions and public choice the economics of exhaustible resources and the economics of renewable resources The seven papers are written by distinguished economists five of them Nobelists The papers originally published between 1960 and 2000 addressed key issues in resource production

pricing consumption planning management and policy The original insights fresh perspectives and bold vision embodied in these papers had a profound influence on the readership and they became classics in the field This is the first attempt to publish original commentaries from a diverse group of scholars to identify probe and analyse the ways in which these papers have impacted and shaped the discourse in natural resource economics Although directed primarily at an academic audience this book should also be of great appeal to researchers policy analysts and natural resource professionals in general This book was published as a series of symposia in the Journal of Natural Resources Policy Research *Discrete Time Dynamic Economic Models* Brian Ferguson,Guay Lim,2003-07-10 Primarily of interest to upper level students carrying out economic modelling this book bridges a gap between economics and econometric literature by introducing and developing the techniques of discrete time modelling **Mathematical Approach to Climate Change and its Impacts** Piermarco Cannarsa,Daniela Mansutti,Antonello Provenza,2020-03-16 This book presents important recent applied mathematics research on environmental problems and impacts due to climate change Although there are inherent difficulties in addressing phenomena that are part of such a complex system exploration of the subject using mathematical modelling is especially suited to tackling poorly understood issues in the field It is in this spirit that the book was conceived It is an outcome of the International INDAM Workshop Mathematical Approach to Climate Change Impacts MAC2I held in Rome in March 2017 The workshop comprised four sessions on Ecosystems Hydrology Glaciology and Monitoring The book includes peer reviewed contributions on research issues discussed during each of these sessions or generated by collaborations among the specialists involved Accurate parameter determination techniques are explained and innovative mathematical modelling approaches presented The book also provides useful material and mathematical problem solving tools for doctoral programs dealing with the complexities of climate change Handbook on the Economics of Natural Resources Robert Halvorsen,David F. Layton,2015-02-27 The topics discussed in the Handbook on the Economics of Natural Resources are essential for those looking to understand how best to use and conserve the resources that form the foundation for human well being These include nonrenewable resources mod *Macroeconomic Theory* Jean-Pascal Benassy,2011-05-12 This graduate textbook is a primer in macroeconomics It starts with essential undergraduate macroeconomics and develops in a simple and rigorous manner the central topics of modern macroeconomic theory including rational expectations growth business cycles money unemployment government policy and the macroeconomics of nonclearing markets The emphasis throughout the book is on both foundations and presenting the simplest model for each topic that will deliver the relevant answers The first two chapters recall the main workhorses of undergraduate macroeconomics the Solow Swan growth model the Keynesian IS LM model and the Phillips curve The next chapters present four fundamental building blocks of modern macroeconomics rational expectations intertemporal dynamic models nonclearing markets and imperfect competition and uncertainty Later the book deals with growth notably the Ramsey model overlapping generations and endogenous growth

Chapter 10 moves to the famous real business cycles RBC which integrate in a unified framework growth and fluctuations The final chapters look at the issue of stabilization how best to guard the economy from shocks and the connections between politics and the macroeconomy To make the book self contained a mathematical appendix gives a number of simple technical results that are sufficient to follow the formal developments of the book     **Handbook of Environmental and Resource**

**Economics** Jeroen C. J. M. Van den Bergh, 2002-01-01 This major reference book comprises specially commissioned surveys in environmental and resource economics written by an international team of experts Authoritative yet accessible each entry provides a state of the art summary of key areas that will be invaluable to researchers practitioners and advanced students

**Optimizing Thermal, Chemical, and Environmental Systems** Stanislaw Sieniutycz, Zbigniew Szwast, 2017-11-13  
Optimizing Thermal Chemical and Environmental Systems treats the evaluation of power or energy limits for processes that arise in various thermal chemical and environmental engineering systems heat and mass exchangers power converters recovery units solar collectors mixture separators chemical reactors catalyst regenerators etc The book is an indispensable source for researchers and students providing the necessary information on what has been achieved to date in the field of process optimization new research problems and what kind of further studies should be developed within quite specialized optimizations Summarizes recent achievements of advanced optimization techniques Links exergy definitions in reversible systems with classical problems of extremum work Includes practical problems and illustrative examples to clarify applications Provides a unified description of classical and work assisted heat and mass exchangers Written by a first class expert in the field of advanced methods in thermodynamics     *The Macroeconomic Theory of Exchange Rate Crises*  
Giovanni Piersanti, 2012-04-26 This book deals with the genesis and dynamics of exchange rate crises in fixed or managed exchange rate systems It provides a comprehensive treatment of the existing theories of exchange rate crises and of financial market runs It aims to provide a survey of both the theoretical literature on international financial crises and a systematic treatment of the analytical models It analyzes a series of macroeconomic models and demonstrates their properties and conclusions including comparative statics and dynamic behaviour The models cover the range of phenomena exhibited in modern crises experienced in countries with fixed or managed exchange rate systems Among the topics covered beyond currency sustainability are bank runs the interaction between bank solvency and currency stability capital flows and borrowing constraints uncertainty about government policies asymmetric information and herding behaviour contagion across markets and countries financial markets and asset price bubbles strategic interaction among agents and equilibrium selection the dynamics of speculative attacks and of financial crashes in international capital markets The book is intended for econometricians academics policymakers and specialists in the field and postgraduate students in economics

Advances in Dynamic and Mean Field Games Joseph Apaloo, Bruno Viscolani, 2018-01-03 This contributed volume considers recent advances in dynamic games and their applications based on presentations given at the 17th Symposium of

the International Society of Dynamic Games held July 12-15, 2016 in Urbino, Italy. Written by experts in their respective disciplines, these papers cover various aspects of dynamic game theory, including mean field games, stochastic and pursuit evasion games, and computational methods for dynamic games. Topics covered include Pedestrian flow in crowded environments, Models for climate change negotiations, Nash Equilibria for dynamic games involving Volterra integral equations, Differential games in healthcare markets, Linear quadratic Gaussian dynamic games, Aircraft control in wind shear conditions. *Advances in Dynamic and Mean Field Games* presents state-of-the-art research in a wide spectrum of areas. As such, it serves as a testament to the continued vitality and growth of the field of dynamic games and their applications. It will be of interest to an interdisciplinary audience of researchers, practitioners, and graduate students.

**Problems Book to accompany Mathematics for Economists** Tamara Todorova, 2010-05-10 In highly mathematical courses, it is a truism that students learn by doing, not by reading. Tamara Todorova's *Problems Book to Accompany Mathematics for Economists* provides a life line for students seeking an extra leg up in challenging courses. Beginning with college-level mathematics, this comprehensive workbook presents an extensive number of economics-focused problem sets with clear and detailed solutions for each one. By keeping the focus on economic applications, Todorova provides economics students with the mathematical tools they need for academic success. For years, Professor Todorova has taught microeconomic courses to economists and non-economists, introduced students to new institutional economics as a modern trend in economics, and taught quantitative methods and their application to economic theory, marketing, and advertising.

*The Economics of Water Resources* Ariel Dinar, Yacov Tsur, 2021-04-15 Population growth and rising living standards on the one hand, and changing climate on the other, have exacerbated water scarcity worldwide. To address this problem, policymakers need to take a wide view of the water economy, a complex structure involving environmental, social, economic, legal, and institutional aspects. A coherent water policy must look at the water economy as a whole and apply a comprehensive approach to policy interventions. Written by two of the world's leading scholars on economics of water, this is the first graduate-level textbook on the topic. The book discusses water resource management within a comprehensive framework that integrates the different yet highly entwined elements of a water economy. It follows the steps needed to develop a well-designed set of policies based on detailed analyses of intervention measures, using multi-sectoral and economy-wide examples from a variety of locations and situations around the world.

**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.



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