Optimal Control Theory and Static Optimization in Economics

Daniel Léonard and
Ngo Van Long

Optimal Control Theory And Static Optimization In Economics

Karl Shell,Jess Benhabib

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   **Lectures on Mathematics for Economic and Financial Analysis** Giorgio Giorgi,Bienvenido Jiménez,Vicente Novo,2025-03-21 This book offers a comprehensive yet approachable introduction to essential mathematical concepts tailored specifically for undergraduate and first year graduate students in Economics and Social Sciences Based on lectures delivered at the University of Pavia s Department of Economics and Management and also in UNED Department of Applied Mathematics in Madrid it aims to equip students with the mathematical tools necessary to better understand their courses in economics and finance where math is applied directly Unlike texts focused on formalized topics like Mathematical Economics or Operations Research this book presents basic mathematical principles and methods that are immediately relevant to students With a clear accessible approach it includes numerous examples some with economic applications to illustrate key concepts and make them easier to grasp The authors have carefully chosen proofs that are straightforward and beneficial for students to encounter offering an introduction to important proof techniques without overwhelming complexity The book also provides a select bibliography allowing readers to explore topics in greater depth if desired Drawing on years of teaching experience the authors have created a valuable resource that serves as both a foundation and a practical guide for students navigating the mathematical aspects of economics and social science courses

Differential Games in Industrial Economics Luca Lambertini,2018-04-26 Game theory has revolutionised our understanding of industrial organisation and the traditional theory of the firm Despite these advances industrial economists

have tended to rely on a restricted set of tools from game theory focusing on static and repeated games to analyse firm structure and behaviour Luca Lambertini a leading expert on the application of differential game theory to economics argues that many dynamic phenomena in industrial organisation such as monopoly oligopoly advertising R D races can be better understood and analysed through the use of differential games After illustrating the basic elements of the theory Lambertini guides the reader through the main models spanning from optimal control problems describing the behaviour of a monopolist through to oligopoly games in which firms strategies include prices quantities and investments This approach will be of great value to students and researchers in economics and those interested in advanced applications of game theory

Macroeconomic Theory Fernando de Holanda Barbosa,2018-09-20 Macroeconomics is the application of economic theory to the study of the economy s growth cycle and price level determination Macroeconomics takes account of stylized facts observed in the real world and builds theoretical frameworks to explain such facts Economic growth is a stylized fact of market economies since England s nineteenth century industrial revolution Until then poverty was a common good for humanity Economic growth consists in the persistent smooth and sustained increase of per capita income A market economy shows periods of expanding and contracting economic activity This phenomenon is the economic cycle The price of money is the amount of goods bought with one unit of money in other words the inverse of the price level Determination of the price level or the value of money is a fascinating subject in a fiat money economy **Applied Control** S. G. Tzafestas,1993-04-29 This book provides a representative set of modern methodologies and applications including new topics in the field discussing a wide range of issues and treating them in depth The book describes analytical processes for fault diagnosis of automatic control systems examines modern sensors and actuators as well as measurement techniques considers multidimensional feedback control and image restoration procedures among other topics **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 Oligopoly, the Environment and Natural Resources Luca Lambertini,2013-08-21 Industrial production and consumption patterns rely heavily on the intensive use of both renewable and non renewable resources and the consequences for the environment can be serious Following a long period of time

where the profit incentives of firms have prevailed over preservation of the environment and the world s natural resources a new consensus has emerged concerning the need to regulate firm behaviour aimed at ensuring the sustainability of the economic system in the long run This book offers an exhaustive overview of current economic debate about these topics taking modern oligopoly theory as a benchmark The first part of the book covers static models dealing with incentives for green research and development Pigovian taxation cartels environmental quality and international trade as well as the role of corporate social responsibility public firms and consumer environmental awareness as endogenous regulatory instruments Then the author moves on to examine the role of time while drawing from optimal control and differential game theory This opens the way to the discussion of fair discount rates to ensure the welfare of future generations as well as the long run sustainability of production and consumption patterns *Encyclopedia of Energy, Natural Resource, and Environmental Economics* ,2013-03-29 Every decision about energy involves its price and cost The price of gasoline and the cost of buying from foreign producers the price of nuclear and hydroelectricity and the costs to our ecosystems the price of electricity from coal fired plants and the cost to the atmosphere Giving life to inventions lifestyle changes geopolitical shifts and things in between energy economics is of high interest to Academia Corporations and Governments For economists energy economics is one of three subdisciplines which taken together compose an economic approach to the exploitation and preservation of natural resources energy economics which focuses on energy related subjects such as renewable energy hydropower nuclear power and the political economy of energy resource economics which covers subjects in land and water use such as mining fisheries agriculture and forests environmental economics which takes a broader view of natural resources through economic concepts such as risk valuation regulation and distribution Although the three are closely related they are not often presented as an integrated whole This Encyclopedia has done just that by unifying these fields into a high quality and unique overview The only reference work that codifies the relationships among the three subdisciplines energy economics resource economics and environmental economics Understanding these relationships just became simpler Nobel Prize Winning Editor in Chief joint recipient 2007 Peace Prize Jason Shogren has demonstrated excellent team work again by coordinating and steering his Editorial Board to produce a cohesive work that guides the user seamlessly through the diverse topics This work contains in equal parts information from and about business academic and government perspectives and is intended to serve as a tool for unifying and systematizing research and analysis in business universities and government **Optimal Control Theory with Economic Applications** A. Seierstad,K. Sydsæter,1987-02 This book serves not only as an introduction but also as an advanced text and reference source in the field of deterministic optimal control systems governed by ordinary differential equations It also includes an introduction to the classical calculus of variations An important feature of the book is the inclusion of a large number of examples in which the theory is applied to a wide variety of economics problems The presentation of simple models helps illuminate pertinent qualitative and analytic points useful when confronted with a more

complex reality These models cover economic growth in both open and closed economies exploitation of non renewable resources pollution control behaviour of firms and differential games A great emphasis on precision pervades the book setting it apart from the bulk of literature in this area The rigorous techniques presented should help the reader avoid errors which often recur in the application of control theory within economics   Journal of Economic Dynamics & Control ,2003

   Optimal Control Theory Suresh P. Sethi,2018-11-28 This fully revised 3rd edition offers an introduction to optimal control theory and its diverse applications in management science and economics It brings to students the concept of the maximum principle in continuous as well as discrete time by using dynamic programming and Kuhn Tucker theory While some mathematical background is needed the emphasis of the book is not on mathematical rigor but on modeling realistic situations faced in business and economics The book exploits optimal control theory to the functional areas of management including finance production and marketing and to economics of growth and of natural resources In addition this new edition features materials on stochastic Nash and Stackelberg differential games and an adverse selection model in the principal agent framework The book provides exercises for each chapter and answers to selected exercises to help deepen the understanding of the material presented Also included are appendices comprised of supplementary material on the solution of differential equations the calculus of variations and its relationships to the maximum principle and special topics including the Kalman filter certainty equivalence singular control a global saddle point theorem Sethi Skiba points and distributed parameter systems 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 author has applied to business management problems developed from his research and classroom instruction The new edition has been completely refined and brought up to date Ultimately this should continue to be a valuable resource for graduate courses on applied optimal control theory but also for financial and industrial engineers economists and operational researchers concerned with the application of dynamic optimization in their fields   Further Mathematics for Economic Analysis Knut Sydsæter,2005 Further Mathematics for Economic Analysis By Sydsaeter Hammond Seierstad and Strom Further Mathematics for Economic Analysis is a companion volume to the highly regarded Essential Mathematics for Economic Analysis by Knut Sydsaeter and Peter Hammond The new book is intended for advanced undergraduate and graduate economics students whose requirements go beyond the material usually taught in undergraduate mathematics courses for economists It presents most of the mathematical tools that are required for advanced courses in economic theory both micro and macro This second volume has the same qualities that made the previous volume so successful These include mathematical reliability an appropriate balance between mathematics and economic examples an engaging writing style and as much mathematical rigour as possible while avoiding unnecessary complications Like the earlier book each major section includes worked examples as well as problems that range in difficulty from quite easy to more challenging Suggested solutions to odd numbered problems are provided Key Features Systematic

treatment of the calculus of variations optimal control theory and dynamic programming Several early chapters review and extend material in the previous book on elementary matrix algebra multivariable calculus and static optimization Later chapters present multiple integration as well as ordinary differential and difference equations including systems of such equations Other chapters include material on elementary topology in Euclidean space correspondences and fixed point theorems A website is available which will include solutions to even numbered problems available to instructors as well as extra problems and proofs of some of the more technical results Peter Hammond is Professor of Economics at Stanford University He is a prominent theorist whose many research publications extend over several different fields of economics For many years he has taught courses in mathematics for economists and in mathematical economics at Stanford as well as earlier at the University of Essex and the London School of Economics Knut Sydsaeter Atle Seierstad and Arne Strom all have extensive experience in teaching mathematics for economists in the Department of Economics at the University of Oslo With Peter Berck at Berkeley Knut Sydsaeter and Arne Strom have written a widely used formula book Economists Mathematical Manual Springer 2000 The 1987 North Holland book Optimal Control Theory for Economists by Atle Seierstad and Knut Sydsaeter is still a standard reference in the field   *Handbook of Computational Economics* H.M. Amman,D.A. Kendrick,J. Rust,1996-06-13 Handbook of computational economics v 1   **Economic Analysis and Policy** ,1992   **Journal of Economic Theory** Karl Shell,Jess Benhabib,1998   **Economics Reading Lists, Course Outlines, Exams, Puzzles & Problems: Environmental & natural resource economics** ,1995   *Economists' Mathematical Manual* Knut Sydsæter,Arne Strøm,Peter Berck,1999 This highly successful manual is the first to present in one volume all of the mathematical formulas and theorems commonly used by economists It will thus be indispensable to economists researchers and students who are in need of exact statements of mathematical results The third edition has been extensively revised and contains more than 250 new formulas as well as many new figures   *Economic Theory and International Trade* A. D. Woodland,2002 Important issues in economic theory and international trade are addressed in this volume with contributions from internationally renowned researchers The book begins with an examination of classical trade theory and welfare economics It goes on to discuss international trade policy including international trade agreements taxation tariffs and quotas Attention then turns to the role of market structure in joint ventures innovation tariff policy and political economy The final section is devoted to economic dynamics and international economics with an emphasis on learning mechanisms sustainable growth and immigration   **The Canadian Journal of Economics** ,1998 A general interest journal in economics

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Table of Contents Optimal Control Theory And Static Optimization In Economics

1. Understanding the eBook Optimal Control Theory And Static Optimization In Economics
   - The Rise of Digital Reading Optimal Control Theory And Static Optimization In Economics
   - Advantages of eBooks Over Traditional Books
2. Identifying Optimal Control Theory And Static Optimization In Economics
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Optimal Control Theory And Static Optimization In Economics
   - User-Friendly Interface
4. Exploring eBook Recommendations from Optimal Control Theory And Static Optimization In Economics
   - Personalized Recommendations
   - Optimal Control Theory And Static Optimization In Economics User Reviews and Ratings

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