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1 The Basics of Dynamic Optimization The Euler equation is the basic necessary condition for optimization in dy-namic problems. Here we discuss the Euler equation corresponding to a discrete time, deterministic control problem where both the state variable and the control variable are continuous, e.g. they are members of the real line.

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The book presents new developments in the dynamic modeling and optimization methods in environmental economics and provides a huge range of applications dealing with the economics of natural resources, the impacts of climate change and of environmental pollution, and respective policy measures. The interrelationship between economic activities and environmental quality, the development of cleaner technologies, the switch from fossil to renewable resources and the proper use of policy instruments play an important role along the path towards a sustainable future. Biological, physical and economic processes are naturally involved in the subject, and postulate the main modelling, simulation and decision-making tools: the methods of dynamic optimization and dynamic games.

A text for students with a background in calculus and intermediate microeconomics and a familiarity with the spreadsheet software Excel.

This work presents the optimization framework for dynamic economics and treats a number of topics in economics, including growth, macroeconomics, microeconomics, finance and dynamic games. The book also teaches by examples, using concepts to solve simple problems, moving on to general propositions.

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.

This book introduces the basic tools of dynamic optimization in economics to study environmental problems, applies econometric methods to estimate and test the models derived by dynamic optimization, and discusses environmental problems in a broad perspective, including the design and implementation of environmental policies. Although the coverage is selective, it represents what the author has to offer from his perspective and experience gained in research in dynamic optimization, econometrics and policy analysis, especially for China. The volume is self-contained for readers with mathematical background of first-year graduate students in the analytical fields of science and engineering but only limited training in economics, while an economics text presumes more knowledge of economics. Once the tools are mastered, the reader can pursue his own research on the topic if he is interested, or simply become a more mature citizen in the global economy.

In this book, Jon Conrad and Colin Clark develop the theory of resource economics.

This book, based on lectures on natural and environmental resource economics, offers a nontechnical exposition of the modern theory of sustainability in the presence of resource scarcity. It applies an alternative take on environmental economics, focusing on the economics of the natural environment, including development, computation, and potential empirical importance of the concept of option value, as opposed to the standard treatment of the economics of pollution control. The approach throughout is primarily conceptual and theoretical, though empirical estimation and results are sometimes noted. Mathematics, ranging from elementary calculus to more formal dynamic optimization, is used, especially in the early chapters on the optimal management of exhaustible and renewable resources, but results are always given an economic interpretation. Diagrams and numerical examples are also used extensively. The first chapter introduces the classical economists as the first resource economists, in their discussion of the implications of a limited natural resource base (agricultural land) for the evolution of the wider economy. A later chapter returns to the same concerns, along with others stimulated by the energy and environmental “crises” of the 1970s and beyond. One section considers alternative measures of resource scarcity and empirical findings on their behavior over time. Another introduces the modern concept of sustainability with an intuitive development of the analytics. A chapter on the dynamics of environmental management motivates the concept of option value, shows how to compute it, then demonstrates its importance in an illustrative empirical example. The closing chapter, on climate change, first projects future changes and potential catastrophic impacts, then discusses the policy relevance of both option value and discounting for the very long run. This book is intended for resource and environmental economists and can be read by interested graduate and advanced undergraduate students in the field as well.

In this text, Dr. Chiang introduces students to the most important methods of dynamic optimization used in economics. The classical calculus of variations, optimal control theory, and dynamic programming in its discrete form are explained in the usual Chiang fashion, with patience and thoroughness. The economic examples, selected from both classical and recent literature, serve not only to illustrate applications of the mathematical methods, but also to provide a useful glimpse of the development of thinking in several areas of economics.

Designed to be used with Chiang's "Fundamental Methods of Mathematical Economics", or independently at advanced undergraduate or graduate level, this text presents an in-depth exploration of dynamic optimization in economics.

This monograph presents potential remedies for some of the current environmental issues in developed countries in a theoretical or empirical manner with the interdisciplinary approaches of economics, statistics, and engineering. The book illustrates effective economic and environmental policies for environmental challenges and factors where corrective policies to date may have failed. The importance of this essential book has is related to the transition in the major concerns of the people or governments in developed countries shifting from economic growth to the stability of life and environmental preservation as their economies have matured. The environmental issues dealt with here include forest environment tax introduced as part of local taxes, air pollution reduction policies for mobile emission sources, introduction of renewable energies and power fuel cell technology, the mechanism of city agglomeration and dispersion, and measurement of environmental sustainability. In analytical methods, some research employs theoretical approaches such as the mathematical economic model or nonlinear dynamic model. Other analyses are implemented with empirical or statistical tools such as the long-run general equilibrium model, the input–output model, and the dynamic optimization model, among others.