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Optimization in Economics and Finance Subgame Consistent Economic Optimization Introductory Optimization Dynamics Introductory Optimization Dynamics Dynamic Economics Optimization and Chaos Optimisation in Economic Analysis Dynamic Optimization and Economic Applications Mathematical Optimization and Economic Theory Production Economics Optimization, Dynamics, and Economic Analysis Optimization In Economics And Finance Optimization and Stability Theory for Economic Analysis Economic Optimization of PV Array Tilt Angle Stochastic Optimization Methods in Finance and Energy 経済理論における最適化 Theory and Methods of Vector Optimization (Volume Two) Optimization and Operations Research Advances in Optimization Optimization in Microeconomics Mathematical Analysis and Optimization for Economists Reconnaissance Report Cooperative Optimal Control of Hybrid Energy Systems Microeconomics: A Computational Approach Scientific and Technical Aerospace Reports Optimality in Infinite Horizon Economies Information and Efficiency in Economic Decision Urban Stormwater and Combined Sewer Overflow Impact on Receiving Water Bodies Agricultural Economics Research Pricing Underemployed Capacity in a Linear Economic Model Optimisation in Economic Analysis Optimization in Economic Theory Advances in Theoretical and Computational Energy Optimization Processes Economic Policy A hydro-economic methodology for the food-energy-water nexus Monthly Catalog of United States Government Publications Economic Stabilization Policy 動的経済システムの最適制御 Dynamic Optimization Energy and Economic Optimization of Conduction-dominated Buildings

Optimization in Economics and Finance 2006-03-30 some recent developments in the mathematics of optimization including the concepts of invexity and quasimax have not yet been applied to models of economic growth and to finance and investment their applications to these areas are shown in this book

Subgame Consistent Economic Optimization 2011-12-06 various imperfections in existing market systems prevent the free market from serving as a truly efficient allocation mechanism but optimization of economic activities provides an effective remedial measure cooperative optimization claims that socially optimal and individually rational solutions to decision problems involving strategic action over time exist to ensure that cooperation will last throughout the agreement period however the stringent condition of subgame consistency is required this textbook presents a study of subgame consistent economic optimization developing game theoretic optimization techniques to establish the foundation for an effective policy menu to tackle the suboptimal behavior that the conventional market mechanism fails to resolve

Introductory Optimization Dynamics 2013-11-11 optimal control theory has been increasingly used in economi and management science in the last fifteen years or so it is now commonplace even at textbook level it has been applied to a great many areas of economics and management science such as optimal growth optimal population pollution control natural resources bioeconomics education international trade monopoly oligopoly and duopoly urban and regional economics arms race control business finance inventory planning marketing maintenance and replacement policy and many others it is a powerful tool of dynamic optimization there is no doubt social sciences students should be familiar with this tool if not for their own research at least for reading the literature these lecture notes attempt to provide a plain exposition of optimal control theory with a number of economic examples and applications designed mainly to illustrate the various techniques and point out the wide range of possible applications rather than to treat exhaustively any area of economic theory or policy chapters 2 3 and 4 are devoted to the calculus of variations chapter 5 develops optimal control theory from the variational approach chapter 6 deals with the problems of constrained state and control variables chapter 7 with linear control models and chapter 8 with stabilization models discrete systems are discussed in chapter 9 and sensitivity analysis in chapter 10 chapter 11 presents a wide range of economics and management science applications

Introductory Optimization Dynamics 1984 this work provides a unified and simple treatment of dynamic economics using dynamic optimization as the main theme and the method of lagrange multipliers to solve dynamic economic problems the author presents the optimization framework for dynamic economics in order that readers can understand the approach and use it as they see fit instead of using dynamic programming the author chooses instead to use the method of lagrange multipliers in the analysis of dynamic optimization because it is easier and more efficient than dynamic programming and allows readers to understand the substance of dynamic economics better the author treats a number of topics in economics including economic growth macroeconomics microeconomics finance and dynamic games the book also teaches by examples using concepts to solve simple problems it then moves to general propositions

Dynamic Economics 1997-02-13 this collection of essays brings together some articles on dynamic optimization models that exhibit chaotic behavior chapters 3 4 5 6 7 and 9 appeared in a symposium on chaotic dynamical systems in economic theory volume 4 number 5 1994 also chapters 10 11 and 12 appeared in the journal of economic the ory we would like to thank the authors and academic press for permission to reprint we are grateful to professor c d aliprantis for suggesting the idea of a book structured around the economic theory symposium and without the support and patience of dr mueller this project could not have been completed we would like to thank ms amy gowan who cheerfully per formed the arduous task of typing the manuscript thanks are also due to xiao qing yu tridip ray and malabika majumdar for their help at various stages in the preparation of the manuscript for a course on dynamic optimization addressed to students with a good background in economic theory and real analysis one can assign chapter 2 as a partial introduction to the basic tech niques chapters 3 and 4 can be assigned to provide examples of simple optmization models generating complicated behavior

Optimization and Chaos 2013-06-29 one of the fundamental economic problems is one of making the best use of limited resources as a result mathematical optimisation methods play a crucial role in economic theory covering the use of such methods in applied and policy contexts this book deals not only with the main techniques linear programming nonlinear optimisation and dynamic programming but also emphasizes the art of model building and discusses fields such as optimisation over time

Optimisation in Economic Analysis 2014-04-04 a classic account of mathematical programming and control techniques and their applications to static and dynamic problems in economics

Dynamic Optimization and Economic Applications 1979 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

Mathematical Optimization and Economic Theory 2002-01-01 this book includes a collection of articles that present recent developments in the fields of optimization and dynamic game theory economic dynamics dynamic theory of the firm and population dynamics and non standard applications of optimal control theory the authors of the articles are well respected authorities in their fields and are known for their high quality research in the fields of optimization and economic dynamics

Production Economics 2012-08-04 this book presents a coherent and systematic exposition of the mathematical theory of the problems of optimization and stability both of these are topics central to economic analysis since the latter is so much concerned with the optimizing behaviour of economic agents and the stability of the interaction processes to which this gives rise the topics covered include convexity mathematical programming fixed point theorems comparative static analysis and duality the stability of dynamic systems the calculus of variations and optimal control theory the authors present a more detailed and wide ranging discussion of these topics than is to be found in the few books which attempt a similar coverage although the text deals with fairly advanced material the mathematical prerequisites are minimised by the inclusion of an integrated mathematical review designed to make the text self contained and accessible to the reader with only an elementary knowledge of calculus and linear algebra a novel feature of the book is that it provides the reader with an understanding and feel for the kinds of mathematical techniques most useful for dealing with particular economic problems this is achieved through an extensive use of a broad range of economic examples rather than the numerical algebraic examples so often found this is suitable for use in advanced undergraduate and postgraduate courses in economic analysis and should in addition prove a useful reference work for practising economists

Optimization, Dynamics, and Economic Analysis 2012-12-06 in case when the related electricity tariffs are according to peak demand the cost of electricity in peak hours is much higher than in off peak hours therefore it may be expected that the yearly optimum tilt angle from the economic point of view will be declined towards months and hours with the highest electricity tariffs this would result in lower tilt angle than the optimum angle from the energy point of view 25 deg the analysis of energy generation and energy cost according to peak demand tariffs shows that the optimum tilt angle from economic point of view is similar to optimum from the energy point of view 25 deg this happens because of low sensitivity to tilt angle in range 0 25 deg in summer comparing to very high sensitivity in winter which means that the economic benefit from increasing tilt angle in january is higher than from decreasing the tilt angle in july in range 0 25 deg this work contains large volume of useful data and may be helpful for other works related to solar energy

Optimization In Economics And Finance 2008-08-01 this volume presents a collection of contributions dedicated to applied problems in the financial and energy sectors that have been formulated and solved in a stochastic optimization framework the invited authors represent a group of scientists and practitioners who cooperated in recent years to facilitate the growing penetration of stochastic programming techniques in real world applications inducing a significant advance over a large spectrum of complex decision problems after the recent widespread liberalization of the energy sector in europe and the unprecedented growth of energy prices in international commodity markets we have witnessed a significant convergence of strategic decision problems in the energy and financial sectors this has often resulted in common open issues and has induced a remarkable effort by the industrial and scientific communities to facilitate the adoption of advanced analytical and decision tools the main concerns of the financial community over the last decade have suddenly penetrated the energy sector inducing a remarkable scientific and practical effort to address previously unforeseeable management problems stochastic optimization methods in finance and energy new financial products and energy markets strategies aims to include in a unified framework for the first time an extensive set of contributions related to real world applied problems in finance and energy leading to a common methodological approach and in many cases having similar underlying economic and financial implications part 1 of the book presents 6 chapters related to financial applications part 2 presents 7 chapters on energy applications and part 3 presents 5 chapters devoted to specific theoretical and computational issues

Optimization and Stability Theory for Economic Analysis 1990 this second volume presents research in the field of the mathematical model operation of economic systems again using as a basis the theory and methods of vector optimization this volume includes three chapters the first chapter deals with issues related to the theory of the company modeling and decision making while the second deals with issues related to modeling and decision making in market systems the third chapter deals with issues related to modeling forecasting and decision making

Economic Optimization of PV Array Tilt Angle 2017-11-28 the variable metric algorithm is widely recognised as one of the most efficient ways of solving the following problem locate x a local minimum point n 1 of f x x e r considerable attention has been given to the study of the convergence prop ties of this algorithm especially for the case where analytic expressions are avai ble for the derivatives g af ax i 1 n 2 in particular we shall mention the results of wolfe 1969 and powell 1972 1975 wolfe established general conditions under which a descent algorithm will converge to a stationary point and powell showed that two particular very efficient algorithms that cannot be shown to satisfy olfe s conditions do in fact converge to the minimum of convex functions under certain conditions these results will be st ed more completely in section 2 in most practical problems analytic expressions for the gradient vector g equ 2 are not available and numerical derivatives are subject to truncation error in section 3 we shall consider the effects of these errors on wolfe s convergent prop ties and will discuss possible modifications of the algorithms to make them reliable in these circumstances the effects of rounding error are considered in section 4 whilst in section 5 these thoughts are extended to include the case of on line fu tion minimisation where each function evaluation is subject to random noise

Stochastic Optimization Methods in Finance and Energy 2011-09-15 this voluume contains actual contributions to the current research directions in optimizatiton theory as well as applications to economic problems and to problems in industrial engineering of particular interest are convex and nonsmooth analysis sensitivity theory optimization techniques for nonsmooth and variational problems control theory and vector optimization the volume contains research andsurvey papers the main benefit is given by a global suruvey of the state ofart of modern

optimization theory and some typical applications
経済理論における最適化 1997 optimization in microeconomics is a mathematical economics textbook that synthesizes what the reader knows about mathematics and economics the exercises in the book ask readers to translate verbal descriptions of an economic problem into mathematical terms for use with optimization techniques to analyze and then translate the mathematical answers back into economic language the optimization topics include functions of one variable two variables several variables constrained optimization and finally duality in each case the reader is asked to find optima solve comparative statics problems and to apply the envelope theorem these last two topics are treated as central and are included from the beginning whereas other books view them as advanced topics optimization in microeconomics is intended for a one semester course in mathematical economics for undergraduates readers should already have seen some microeconomics and partial derivatives of functions of several variables dr christopher curran is associate professor of economics at emory university he earned his b a at rice university and a masters and ph d in economics at purdue university he has taught at emory university since 1970 he created the mathematical economics course in 1973 and has co taught the course with a faculty member from the mathematics department since 1975 dr curran has published papers in journals on economic history urban economics and law and economics his current research interests include the role of economic constraints on human evolution dr skip garibaldi is a research staff member at the center for communications research previously he was associate director of the institute for pure and applied mathematics at ucla and winship distinguished research professor of mathematics at emory university where he co taught the mathematical economics course he has degrees in mathematics and computer science from purdue university and a ph d in mathematics from the university of california san diego his paper on the economics of the lottery won the lester r ford award from the mathematical association of america and his second paper on detecting criminals in the lottery resulted in 6 arrests he has written two other books on mathematics as well as numerous research articles
Theory and Methods of Vector Optimization (Volume Two) 2021-09-30 mathematical foundations 1 mathematical foundations 2 mathematical foundations 3 mathematical foundations 4 global and local extrema of real valued functions global extrema of real valued functions local extrema of real valued functions convex and concave real valued functions generalizations of convexity and concavity constrained extrema equality constraints constrained extrema inequality constraints

constrained extrema mixed constraints lagrangian saddle points and duality generalized concave optimization homogeneous homothetic and almost homogeneous functions envelope theorems the fixed point theorems of brouwer and kakutani dynamic optimization optimal control modeling comparative statics revisited

Optimization and Operations Research 2012-12-06 this book mainly investigates the cooperative optimal control of hybrid energy system it presents security control multi objective optimization distributed optimization and distributed control approaches for tackling with security economic and stability problem of the hybrid energy system it aims to solve some challenging problems including security issue economic cost or benefits from both power generation side and load demand side and coordination among different power generators the methods proposed in this book is novel and attractive it consists of the hierarchical optimal control strategy for the security issue multi objective optimization for both economic and emission issue and distributed optimal control for coordination among power generators readers can learn novel methods or technique for tackling with the security issue multiple objective problem and distributed coordination problem it also may inspire readers to improve some drawbacks of existing alternatives some fundamental knowledge prepared to read this book includes basic principles of the multi agents system robust optimization pareto dominance optimization and background of electrical engineering and renewable energy

Advances in Optimization 2013-11-27 this concise and comprehensive introduction to economics offers readers at all levels a more realistic approach to understanding the elements of resource and product markets including the role of business decisions technological change product differentiation uncertainty and the optimal location of activities with the book s easy to use software package for computations even non economists will become strongly motivated and can gain a proficiency in economic analysis as well as in practical and professional decision making skills end of chapter problems computer exercises programming examples and numerous diagrams further enhance the book s usefulness

Optimization in Microeconomics 2015-12-28 lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the nasa scientific and technical information database

Mathematical Analysis and Optimization for Economists 2021 modern welfare economics as it is known today to economists took its final shape with the emergence of the arrow debreu model the classical conjectures about the beneficient workings of markets together with the converse statement that optimal in the sense of pareto allocations may be sustained by prices and markets has laid a firm foundation for further research in welfare economics but more than that it has inspired researchers to take up entirely new topics notably by closer considerations of situations where the assumptions of the original model may seem overly restrictive one of these new directions has been connected with generalizing the model so that it takes into account the possibility of infinitely many commodities on the face of it the idea of an infinity of commodities may seem a mathematical fancy having no real counterpart in economic life this is not so however quite to the contrary infinity enters in a very natural way when it is taken into account that economic transactions take place over time 2 in the arrow debreu formalism time may be incorporated into the model in a very simple way using dated commodities thus two commodities are considered as being different if they are to be delivered at different points of time

Reconnaissance Report 1995 use of information is basic to economic theory in two ways as a basis for optimization it is central to all normative hypotheses used in eco nomics but in decision making situations it has stochastic and evolution ary aspects that are more dynamic and hence more fundamental this book provides an illustrative survey of the use of information in econom ics and other decision sciences since this area is one of the most active fields of research in modern times it is not possible to be definitive on all aspects of the issues involved however questions that appear to be most important in this author s view are emphasized in many cases without drawing any definite conclusions it is hoped that these questions would provoke new interest for those beginning researchers in the field who are currently most active various classifications of information structures and their relevance for optimal decision making in a stochastic environment are analyzed in some detail specifically the following areas are illustrated in its analytic aspects 1 stochastic optimization in linear economic models 2 stochastic models in dynamic economics with problems of time inc sistency causality and estimation 3 optimal output inventory decisions in stochastic markets 4 minimax policies in portfolio theory 5 methods of stochastic control and differential games and 6 adaptive information structures in decision models in economics and the theory of economic policy

Cooperative Optimal Control of Hybrid Energy Systems 2021-02-15 one of the difficulties in relating the shadow prices of a linear economic model to their counterparts in the real economy being modelled is the assumption of perfect competition under this assumption competition would force the price of any resource in excess supply down to zero in

real economies however owners of capacity routinely receive a return even when that capacity is underemployed precisely because competition is imperfect we present a method for determining a stable system of shadow prices consistent with an absence of competition among the owners of slack capacity and show that this implies non zero prices on all resources regardless of excess supply author
Microeconomics: A Computational Approach 2016-07-08 one of the fundamental economic problems is one of making the best use of limited resources as a result mathematical optimisation methods play a crucial role in economic theory covering the use of such methods in applied and policy contexts this book deals not only with the main techniques linear programming nonlinear optimisation and dynamic programming but also emphasizes the art of model building and discusses fields such as optimisation over time
Scientific and Technical Aerospace Reports 1981 building on a base of simple economic theory and elementary linear algebra and calculus this broad treatment of static and dynamic optimization methods discusses the importance of shadow prices and functions defined by solutions of optimization problems
Optimality in Infinite Horizon Economies 2013-06-29 the paradigm in the design of all human activity that requires energy for its development must change from the past we must change the processes of product manufacturing and functional services this is necessary in order to mitigate the ecological footprint of man on the earth which cannot be considered as a resource with infinite capacities to do this every single process must be analyzed and modified with the aim of decarbonising each production sector this collection of articles has been assembled to provide ideas and new broad spectrum contributions for these purposes
Information and Efficiency in Economic Decision 1985-02-28 is the inflation objective of the european central bank set too low is european national debt excessive is a fixed or floating exchange rate better which taxes should be reformed can the european standard of living catch up with that of the united states this book a translation of a book published in french de boeck 2004 brings precisely argued answers to these questions using rigorous economic analysis the authors join together for the first time in one volume the fundamentals of the macroeconomic field with analysis of current debates in economic policy they take the point of view of a policy maker who must intervene in one particular aspect of policy and thus they put the reader at the cutting edge of the main issues debates and challenges related to each policy aspect economic policy explores in an open ended way what various existing theories macro and micro have to say on these current policies and

points out the limits of each theory overall it demonstrates to the reader how he or she can build upon the combination of existing theories and also on common sense in order to design adequate policy responses the work will appeal to a large audience including students in economics management and political science graduate schools and professional economists and policy makers interested in issues in macroeconomics

Urban Stormwater and Combined Sewer Overflow Impact on Receiving Water Bodies 1980 growing global water stress caused by the combined effects of growing populations increasing economic development and climate change elevates the importance of managing and allocating water resources in ways that are economically efficient and that account for interdependencies between food production energy generation and water networks often referred to as the food energy water few nexus to support these objectives this report outlines a replicable hydro economic methodology for assessing the value of water resources in alternative uses across the few nexus including for agriculture energy production and human consumption and maximizing the benefits of these resources through optimization analysis the report s goal is to define the core elements of an integrated systems based modeling approach that is generalizable flexible and geographically portable for a range of few nexus applications the report includes a detailed conceptual framework for assessing the economic value of water across the few nexus and a modeling framework that explicitly represents the connections and feedbacks between hydrologic systems e g river and stream networks and economic systems e g food and energy production the modeling components are described with examples from existing studies and applications the report concludes with a discussion of current limitations and potential extensions of the hydro economic methodology

Agricultural Economics Research 1977 background of the fundamental approach econometric model point linearization dynamic policy multipliers quadratic obtimization the level problems of i

Pricing Underemployed Capacity in a Linear Economic Model 1979 本書の第1部は 連続時間経済システムの最適制御を扱う そして第2部以降は離散時間経済システムの最適制御の方法と応用を論じる まず 第2部は ベルマンのダイナミック プログラミングの離散時間系の解法と それの動的消費計画への適用を展開し 第3部では離散型最大原理を用いて最適な投資と貯蓄の動学解が求められる そして第4部は離散型動学ゲームによる最適非協調解法と その2国間 3国間非協調政策の形成への適用を詳説する 最後に第5部は 状態空間形に関する諸問題 動的産業連関モデルのシステム論者の諸解法 および的確に最新情報を最適政策へ繰り入れる方法 の経済システム制御理論の基礎的問題をまとめている

Optimisation in Economic Analysis 2014-04-04

Optimization in Economic Theory 1976

Advances in Theoretical and Computational Energy Optimization Processes 2020-12-29

Economic Policy 2010

A hydro-economic methodology for the food-energy-water nexus 2021-05-27

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