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Mathematical Methods In Economics And Social Choice

Manfred J Holler, Hannu Nurmi



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Mathematical Methods in Economics Norman Schofield, 2018-03-05 Originally published in 1984 Since the logic underlying economic theory can only be grasped fully by a thorough understanding of the mathematics this book will be invaluable to economists wishing to understand vast areas of important research It provides a basic introduction to the fundamental mathematical ideas of topology and calculus and uses these to present modern singularity theory and recent results on the generic existence of isolated price equilibria in exchange economies

Mathematical Models in Economics - Volume I Wei-Bin Zhang, 2009-06-10 Mathematical Models in Economics is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias This theme is organized into several different topics and introduces the applications of mathematics to economics Mathematical economics has experienced rapid growth generating many new academic fields associated with the development of mathematical theory and computer Mathematics is the backbone of modern economics It plays a basic role in creating ideas constructing new theories and empirically testing ideas and theories Mathematics is now an integral part of economics The main advances in modern economics are characterized by applying mathematics to various economic problems Many of today's profound insights into economic problems could hardly be obtained without the help of mathematics The concepts of equilibrium versus non equilibrium stability versus instability and steady states versus chaos in the contemporary literature are difficult to explain without mathematics The theme discusses

on modern versions of some classical economic theories taking account of balancing between significance of economic issues and mathematical techniques These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Mathematical Methods of Game and Economic Theory Jean-Pierre Aubin, 2007-01-01 Mathematical economics and game theory approached with the fundamental mathematical toolbox of nonlinear functional analysis are the central themes of this text Both optimization and equilibrium theories are covered in full detail The book's central application is the fundamental economic problem of allocating scarce resources among competing agents which leads to considerations of the interrelated applications in game theory and the theory of optimization Mathematicians mathematical economists and operations research specialists will find that it provides a solid foundation in nonlinear functional analysis This text begins by developing linear and convex analysis in the context of optimization theory The treatment includes results on the existence and stability of solutions to optimization problems as well as an introduction to duality theory The second part explores a number of topics in game theory and mathematical economics including two person games which provide the framework to study theorems of nonlinear analysis The text concludes with an introduction to non linear analysis and optimal control theory including an array of fixed point and subjectivity theorems that offer powerful tools in proving existence theorems

The Spatial Model of Politics Norman Schofield, 2007-12-21 Using unique and cutting edge research Schofield a prominent author in the US for a number of years explores the growth area of positive political economy within economics and politics The first book to explain the spatial model of voting from a mathematical economics and game theory perspective it is essential reading for all those studying positive political economy

Power, Voting, and Voting Power: 30 Years

After Manfred J Holler, Hannu Nurmi, 2013-03-19 The developments over a thirty year time span in the study of power especially voting power are traced in this book which provides an up to date overview of applications of n person game theory to the study of power in multimember bodies Other theories that shed light on power distribution e g aggregation theory are treated as well The book revisits the themes discussed in the well known 1982 publication *Power Voting and Voting Power* edited by Manfred J Holler Thirty years later this essential topic has been taken up again and many of the authors from its predecessor participate here again in discussing the state of the art demonstrating the achievements of three decades of intensive research and pointing the way to key issues for future work

Econophysics & Economics of Games, Social Choices and Quantitative Techniques Banasri Basu, Bikas K. Chakrabarti, Satya R. Chakravarty, Kausik Gangopadhyay, 2010-06-01

The combined efforts of the Physicists and the Economists in recent years in analyzing and modelling various dynamic phenomena in monetary and social systems have led to encouraging developments generally classified under the title of Econophysics These developments share a common ambition with the already established field of Quantitative Economics This volume intends to offer the reader a glimpse of these two parallel initiatives by collecting review

papers written by well known experts in the respective research frontiers in one cover This massive book presents a unique combination of research papers contributed almost equally by Physicists and Economists Additional contributions from Computer Scientists and Mathematicians are also included in this volume The book consists of two parts the first part concentrates on Econophysics problems and the second part stresses on various quantitative issues in Economics Both parts specialize on frontier problems in Games and Social Choices

Modeling Foundations of Economic Property Rights Theory Vesna Pasetta, 2006-03-30 This is an introduction to the foundations of economic property rights theory EPRT In this volume a first step in the EPRT research program rules concerning economic property rights express entrepreneurial agreements and enterprises are discussed Introduced concept of express is an extension of the traditional concept of pairing of residual rights of control and residual rights of returns in the economic theory Its importance in economics is generated from a general impossibility of making a complete contract concerning express for any nontrivial economic transaction The volume offers a theoretical tension of mathematical economics applying recent results of Hopf algebras quasi Hopf algebras representation theory theory of categories and deformation theories in looking for suitable mathematical methodology of economic property rights theories and foundations of general theory of economic agreements The idea is to construct a kind of mathematical application in which any fundamental formal entity and/or operation has an empirical economic interpretation This approach is seen as a way to cope with an extreme complexity of economic phenomena under consideration and requests for precise formulation of models where meaningful answers and solutions of problems are only those which are obtained rigorously The proposed extensions in mathematical economics and property rights theory are to provide rich enough foundations to follow complexity of economic property rights in the exact way and to identify where there is an appropriate method providing a suitable solution and also to find problems where in general there is no such methodology

Criminal Dilemmas Katri K. Sieberg, 2006-03-30 Fighting crime breeds emotional responses which often lead to counterproductive government policy To allow a rational analysis of these important concerns this book employs the thinking of economics political science and game theory to develop new perspectives on crime and its causes A basic assumption is that the criminal is a rational actor who makes decisions based on his or her personal expected gains and costs By using this assumption predictions about behaviour as well as emotional concerns such as prostitution and gun control are given a theoretical perspective By understanding the strategic variables which cause for example gang wars and drug sales we are better equipped to design effective public policy In the new edition a chapter on police corruption has been added The Gangs chapter has been updated and focuses more on evaluating competing hypotheses about gang organization and activity

Economic Sciences, 1996-2000 Torsten Persson, 2003 Below is a list of the prizewinners during the period 1996-2000 with a description of the works which won them their prizes 1996 J A MIRRELES 1997 R C MERTON 1998 A K SEN for his contributions to welfare economics 1999 R A MUNDELL for his analysis of monetary and fiscal policy under different

exchange rate regimes and his analysis of optimum currency areas 2000 J J HECKMAN for his development of theory and methods for analyzing selective samples D L McFADDEN for his development of theory and methods for analyzing discrete choice **Assets, Beliefs, and Equilibria in Economic Dynamics** Charalambos D. Aliprantis, Kenneth J. Arrow, Peter Hammond, Felix Kubler, Ho-Mou Wu, Nicholas C. Yannelis, 2013-11-11 A collection of papers dealing with a broad range of topics in mathematical economics game theory and economic dynamics The contributions present both theoretical and applied research The volume is dedicated to Mordecai Kurz The papers were presented in a special symposium co hosted by the Stanford University Department of Economics and by the Stanford Institute of Economic Policy Research in August 2002

Institutions, Equilibria and Efficiency Christian Schultz, Karl Vind, 2006-04-22 Competition and efficiency is at the core of economic theory This volume collects papers of leading scholars which extend the conventional general equilibrium model in important ways Efficiency and price regulation are studied when markets are incomplete and existence of equilibria in such settings is proven under very general preference assumptions The model is extended to include geographical location choice a commodity space incorporating manufacturing imprecision and preferences for club membership schools and firms Inefficiencies arising from household externalities or group membership are evaluated Core equivalence is shown for bargaining economies The theory of risk aversion is extended and the relation between risk taking and wealth is experimentally investigated Other topics include determinacy in OLG with cash in advance constraints income distribution and democracy in OLG learning in OLG and in games optimal pricing of derivative securities the impact of heterogeneity at the individual level for aggregate consumption and adaptive contracting in view of uncertainty *Essays in Dynamic*

General Equilibrium Theory Alessandro Citanna, John Donaldson, H. Polemarchakis, Paolo Siconolfi, Stephen Spear, 2006-01-11 In the area of dynamic economics David Cass s work has spawned a number of important lines of research including the study of dynamic general equilibrium theory the concept of sunspot equilibria and general equilibrium theory when markets are incomplete Based on these contributions this volume contains new developments in the field written by Cass s students and co authors **Recent Developments on Money and Finance** Gabriele Camera, 2006-01-09 Assembles theoretical contributions to monetary theory banking and finance This book includes papers spanning themes from monetary policy to the optimal design of financial systems and from the study of the causes of financial crises to payment systems design It serves as a reference to researchers interested in the study of financial systems *Power, Freedom, and Voting* Matthew

Braham, Frank Steffen, 2008-03-11 *Power Freedom and Voting* is an interdisciplinary book that presents a comprehensive insight into current research by economists mathematicians philosophers and political scientists on three intimately related concepts that are at the heart of theories of democracy and social welfare The editors have brought together some of the leading scholars in the different fields to create a distinctive volume Chapters include contributions on foundational and methodological issues in the definition and measurement of power and freedom and empirical studies of power and coalition

formation in voting bodies The volume also contains contributions that make an effort to bridge the gaps between different disciplinary approaches including one on the importance of Machiavelli's writing as a reference point for modern political theory and others on the related concepts of fairness and responsibility A majority of the chapters make use of game theory

Mathematical Methods in the Social Sciences, 1959 Kenneth Joseph Arrow, 1960 *Game Theory and Mutual Misunderstanding* Mamoru Kaneko, 2005-11-13 This book consists of five acts and two interludes which are all written as dialogues between three main characters and other supporting characters Each act discusses the epistemological institutional and methodological foundations of game theory and economics while using various stories and examples A featured aspect of those discussions is that many forms of mutual misunderstanding are involved in social situations as well as in those fields themselves One Japanese traditional comic story called the Konnyaku Mondo is representative and gives hints of how our thought is constrained by incorrect beliefs Each dialogue critically examines extant theories and common misunderstanding in game theory and economics in order to find possible future developments of those fields Rationality and Equilibrium Charalambos D. Aliprantis, Rosa L. Matzkin, Daniel L. McFadden, James C. Moore, Nicholas C. Yannelis, 2006-04-20 This book contains a collection of original and state of the art contributions in rational choice and general equilibrium theory Among the topics are preferences demand equilibrium core allocations and testable restrictions The contributing authors are Daniel McFadden Rosa Matzkin Emma Moreno Garcia Roger Lagunoff Yakar Kannai Myrna Wooders James Moore Ted Bergstrom Luca Anderlini Lin Zhou Mark Bagnoli Alexander Kovalenkov Carlos Herves Beloso Michaela Topuzu Bernard Cornet Andreu Mas Colell and Nicholas Yannelis **Economics Imperialism and Interdisciplinarity: The Watershed and After** Ben Fine, 2023-10-20 In *Economics Imperialism and Interdisciplinarity The Watershed and After* Ben Fine selects and adds to his key articles tracking economics imperialism through three phases focusing on the last decade of the third phase anything goes as with freakonomics Each article is accompanied by a preamble setting the context in which it appeared with a new overall introduction and literature survey drawing out the overall significance for contemporary scholarship Ranging over mainstream and heterodox economics the disputes between them the relationship between economics and other disciplines and authors such as Lazear Stiglitz and Akerlof the accelerating presence of economics imperialism is documented alongside its perverse critical neglect The volume is imperative for those engaging in political economy across the social sciences

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