Recursive Methods In Economic Dynamics

Essays in Economic DynamicsEssays in economic dynamicsNonlinearities in EconomicsEconomic DynamicsEconomic DynamicsComplex Economic Dynamics: An introduction to macroeconomic dynamicsEconomic DynamicsEconomic Dynamics and General EquilibriumEconomic Dynamics, second editionEconomic Dynamics in Discrete TimeChaotic Economic DynamicsEconomic Dynamics: Methods and ModelsEconomic DynamicsThe Elements of a Nonlinear Theory of Economic DynamicsEconomic DynamicsNonlinear Economic DynamicsNonlinearities in EconomicsRoutledge Revivals: Studies in Economic Dynamics (1943)Economic DynamicsMathematical Theory of Economic Dynamics and Equilibria R.M. Goodwin Richard Mead Goodwin Giuseppe Orlando Giancarlo Gandolfo Wei-Bin Zhang Richard Hollis Day John Stachurski Anders Borglin John Stachurski Jianjun Miao Richard M. Goodwin G Gandolfo Giancarlo Gandolfo Carl Chiarella Giancarlo Gandolfo Tönu Puu Giuseppe Orlando M. Kalecki Ronald Shone V.L. Makarov

this interdisciplinary book argues that the economy has an underlying non linear structure and that business cycles are endogenous which allows a greater explanatory power with respect to the traditional assumption that dynamics are stochastic and shocks are exogenous the first part of this work is formal methodological and provides the mathematical background

needed for the remainder while the second part presents the view that signal processing involves construction and deconstruction of information and that the efficacy of this process can be measured the third part focuses on economics and provides the related background and literature on economic dynamics and the fourth part is devoted to new perspectives in understanding nonlinearities in economic dynamics growth and cycles by pursuing this approach the book seeks to 1 determine whether and if so where common features exist 2 discover some hidden features of economic dynamics and 3 highlight specific indicators of structural changes in time series accordingly it is a must read for everyone interested in a better understanding of economic dynamics business cycles econometrics and complex systems as well as non linear dynamics and chaos theory

the theory of economic development is a branch of economic dynamics any discussion of the theory must involve dynamics even though not all dynamic problems are necessarily related to economic development the theory s primary locus is upon the nice paths of economic variables stationary states which have been the main concern of modem economic development theory are actually special cases of economic dynamics in this study we propose an economic development theory within the framework of input output systems and neoclassical economics no political problems will be dealt with although this does not mean that questions such as why japan had a higher growth rate than china in the past are not important similarly rather than dealing with the psychological and institutional aspects of in economic development processes we only suggest ways or methods as hicks would call them for analyzing what determines economic development from the point of view of pure economics our main contribution to economic growth theory is that we investigate various nonlinear dynamic phenomena such as bifurcations and economic cycles we emphasize that oscillations and structural changes are not rare but universal in a progressive economy no economic system can be stabilized forever if change is permitted

the two volumes of complex economic dynamics show that far from being a passing trend in economic research complex dynamics belongs at the heart of the subject although they can be read independently the volumes follow a logical sequence volume 1 contained nontechnical introductions to the basics of economic change and to the mathematical and theoretical tools used to describe them volume 2 which is concerned with macroeconomic dynamics looks at the economy as a whole topics include business cycles economic growth economic development and dynamical economic science and policy the book concludes with the author s reflections on the implications of complex dynamics for economic theory quantitative research and government policy pub desc

a rigorous and example driven introduction to topics in economic dynamics with an emphasis on mathematical and

computational techniques for modeling dynamic systems this text provides an introduction to the modern theory of economic dynamics with emphasis on mathematical and computational techniques for modeling dynamic systems written to be both rigorous and engaging the book shows how sound understanding of the underlying theory leads to effective algorithms for solving real world problems the material makes extensive use of programming examples to illustrate ideas these programs help bring to life the abstract concepts in the text background in computing and analysis is offered for readers without programming experience or upper level mathematics topics covered in detail include nonlinear dynamic systems finite state markov chains stochastic dynamic programming stochastic stability and computation of equilibria the models are predominantly nonlinear and the emphasis is on studying nonlinear systems in their original form rather than by means of rudimentary approximation methods such as linearization much of the material is new to economics and improves on existing techniques for graduate students and those already working in the field economic dynamics will serve as an essential resource

the developments of economic theory in the 1950s served to pinpoint important underlying assumptions in the study of market institutions the conflict between observed institutions and the benchmark interpretation became apparent this led to the introduction of new equilibrium concepts the emphasis was on the possibilities to transfer purchasing power over time using spot markets involving assets or money this advanced textbook focuses on the developments in the theory of incomplete markets and overlapping generations economies where income transfers over time are restricted either by available assets or by the unfeasibility of contracts with unborn generations it bridges the gap between standard textbooks on microeconomics and more advanced expositions contains diagrams examples and exercises

the second edition of a rigorous and example driven introduction to topics in economic dynamics that emphasizes techniques for modeling dynamic systems this text provides an introduction to the modern theory of economic dynamics with emphasis on mathematical and computational techniques for modeling dynamic systems written to be both rigorous and engaging the book shows how sound understanding of the underlying theory leads to effective algorithms for solving real world problems the material makes extensive use of programming examples to illustrate ideas bringing to life the abstract concepts in the text key topics include algorithms and scientific computing simulation markov models and dynamic programming part i introduces fundamentals and part ii covers more advanced material this second edition has been thoroughly updated drawing on recent research in the field new for the second edition programming language agnostic presentation using pseudocode new chapter 1 covering conceptual issues concerning markov chains such as ergodicity and stability new focus in chapter 2 on algorithms and

techniques for program design and high performance computing new focus on household problems rather than optimal growth in material on dynamic programming solutions to many exercises code and other resources available on a supplementary website

a unified comprehensive and up to date introduction to the analytical and numerical tools for solving dynamic economic problems this book offers a unified comprehensive and up to date treatment of analytical and numerical tools for solving dynamic economic problems the focus is on introducing recursive methods an important part of every economist s set of tools and readers will learn to apply recursive methods to a variety of dynamic economic problems the book is notable for its combination of theoretical foundations and numerical methods each topic is first described in theoretical terms with explicit definitions and rigorous proofs numerical methods and computer codes to implement these methods follow drawing on the latest research the book covers such cutting edge topics as asset price bubbles recursive utility robust control policy analysis in dynamic new keynesian models with the zero lower bound on interest rates and bayesian estimation of dynamic stochastic general equilibrium dsge models the book first introduces the theory of dynamical systems and numerical methods for solving dynamical systems and then discusses the theory and applications of dynamic optimization the book goes on to treat equilibrium analysis covering a variety of core macroeconomic models and such additional topics as recursive utility increasingly used in finance and macroeconomics dynamic games and recursive contracts the book introduces dynare a widely used software platform for handling a range of economic models readers will learn to use dynare for numerically solving dsge models and performing bayesian estimation of dsge models mathematical appendixes present all the necessary mathematical concepts and results matlab codes used to solve examples are indexed and downloadable from the book s website a solutions manual for students is available for sale from the mit press a downloadable instructor s manual is available to qualified instructors

the new science of chaos came about through weather analysis starting from the premise that economics is equally unpredictable this original new book explores the ways that chaos theory may be used for economic analysis the author shows that since chaos theory sets out to demonstrate erratic and unpredictable behavior in a situation of total cause and effect it has much to offer in understanding human society and the unpredictable nature of economics it has always been assumed that the highly irregular behavior of economic time series was the consequence of extra economic disturbances such as political decisions trade unions the weather foreign trade etc goodwin makes it clear that there are not one but two explanations of this

confusing behavior

economic dynamics methods and models aims to give a simple but comprehensive treatment of mathematical methods used in economic dynamics and show how they are utilized to build and to analyze dynamic models the text also focuses on methods and every mathematical technique introduced is followed by its application to selected models the book is divided into three different parts part i different equations discusses general principles first order second order higher order equations simultaneous systems and their economic applications part ii differential equations also discusses the same areas as those in part i but instead features differential equations as what the section name suggests part iii more advanced material covers comparative statistics and the comparative principle stability of equilibrium and liapunov s second method and linear mixed differential and difference equations as well as its other related topics the text is recommended for mathematicians and economists who have an idea on advanced mathematics and would like to know more about its applications in economics

treating the mathematical methods used in the economic dynamics this book shows how they are utilised to build and analyse dynamical models accordingly the focus is on the methods and every new mathematical technique introduced is followed by its application to select economic models the mathematical methods coveredc range from elementary linear difference and differential equations and simultaneous systems to the qualitative analysis of non linear dynamical systems stability considerations are stressed throughout including many advanced topics bifurcation and chaos theory are also dealt with the reader is guided through a step by step analysis of each topic be it a mathematical method or an economic model the study edition also provides the reader with solutions to the numerous exercises

elements of a nonlinear theory of economic dynamics provides both a framework and a survey of its needs first principle results and techniques of the theory relevant to applications in dynamic economics are discussed then their application in view of older endogenous cycle theories are considered in a unified mathematical framework models incorporating the government budget constraint and the goodwin model are analysed using the method of averaging and the centre manifold theory the dynamic instability problem is solved by placing models in a nonlinear framework

this fourth edition on economic dynamics is the premier source on dynamic mathematical tools for economists with illustrations from many areas of current economic research it presents the most advanced areas of nonlinear dynamics in a readable manner

this book was first published in 1989 as volume 336 in the springer series lecture notes in economics and mathematical systems and it reappeared in a 2nd edition as a springer monograph in 1991 after considerable revisions it appeared in a 3rd edition in 1993 the origin still visible in the 3rd edition was the joint work of the author with professor martin j beckmann documented in two co authored mono graphs spatial economics north holland 1985 and spatial structures springer verlag 1990 essential dynamics had however been almost com pletely lacking in these works and the urge to focus the dynamic issues was great to fill this particular gap was the aim of the previous editions and so the spatial aspect provided core and focus in the present edition a substantial quantity of spatial issues have been removed all those that were dynamic only in the sense that structures were characterized which were structurally stable or robust in a changing world the removed material has meanwhile been published as a separate mono graph under the title mathematical location and land use theory springer verlag 1996

this interdisciplinary book argues that the economy has an underlying non linear structure and that business cycles are endogenous which allows a greater explanatory power with respect to the traditional assumption that dynamics are stochastic and shocks are exogenous the first part of this work is formal methodological and provides the mathematical background needed for the remainder while the second part presents the view that signal processing involves construction and deconstruction of information and that the efficacy of this process can be measured the third part focuses on economics and provides the related background and literature on economic dynamics and the fourth part is devoted to new perspectives in understanding nonlinearities in economic dynamics growth and cycles by pursuing this approach the book seeks to 1 determine whether and if so where common features exist 2 discover some hidden features of economic dynamics and 3 highlight specific indicators of structural changes in time series accordingly it is a must read for everyone interested in a better understanding of economic dynamics business cycles econometrics and complex systems as well as non linear dynamics and chaos theory this highly valuable book is a great entry point for understanding the economy as a self organizing non linear dynamical system this book not only introduces the reader to advanced techniques but also applies them to modern economic growth and business cycle models markus brunnermeier edwards s sanford professor of economics director of the bendheim center for finance princeton university usa

first published in 1943 this work contains five interconnected essays presenting the author s renowned additions to the business cycle theory written by one of the most distinguished economists of the 20th century this work will be essential reading for students and scholars of the history of economic thought monetary theory and macroeconomics

this substantially revised and restructured second edition of an essential textbook presents dynamics and phase diagrams for advanced undergraduate and graduate courses in economic theory and quantitative economics it offers an integrated analysis of dynamics that includes many more exercises and examples and a more comprehensive range of applications to economic theory the user friendly text is supported by a companion website offering a solutions manual and learning tools for teachers students and researchers first edition hb 1997 0 521 47446 9 first edition pb 1997 0 521 47973 8

this book is devoted to the mathematical analysis of models of economic dynamics and equilibria these models form an important part of mathemati cal economics models of economic dynamics describe the motion of an economy through time the basic concept in the study of these models is that of a trajectory i e a sequence of elements of the phase space that describe admissible possible development of the economy from all trajectories we select those that are desirable i e optimal in terms of a certain criterion the apparatus of point set maps is the appropriate tool for the analysis of these models the topological aspects of these maps particularly the kakutani fixed point theorem are used to study equilibrium models as well as n person games to study dynamic models we use a special class of maps which in this book are called superlinear maps the theory of superlinear point set maps is obviously of interest in its own right this theory is described in the first chapter chapters 2 4 are devoted to models of economic dynamics and present a detailed study of the properties of optimal trajectories these properties are described in terms of theorems on characteristics on the existence of dual prices and turnpike theorems theorems on asymptotic trajectories in chapter 5 we state and study a model of economic equilibrium the basic idea is to establish a theorem about the existence of an equilibrium state for the arrow debreu model and a certain generalization of it

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