Recursive Methods In Economic Dynamics

Essays in Economic DynamicsEssays in economic dynamicsNonlinearities in EconomicsEconomic Dynamics, Methods and ModelsEconomic Dynamics: Methods and ModelsComplex Economic Dynamics: An introduction to macroeconomic dynamicsEconomic DynamicsEconomic Dynamics and General EquilibriumEconomic DynamicsNonlinear Economic DynamicsEssays in Economic DynamicsComputational Methods in Economic DynamicsEconomic DynamicsEconomic DynamicsNonlinearities in EconomicsNonlinear Dynamics in Economics, Finance and the Social SciencesChaotic Economic DynamicsComputational Methods in Economic DynamicsNew Mathematical Advances in Economic DynamicsEconomic Dynamics, Trade and Growth R.M. Goodwin Richard Mead Goodwin Giuseppe Orlando Giancarlo Gandolfo G Gandolfo Richard Hollis Day John Stachurski Anders Borglin Wei-Bin Zhang Tönu Puu Akio Matsumoto Herbert Dawid Ronald Shone Giancarlo Gandolfo Giuseppe Orlando Gian Italo Bischi Richard M. Goodwin Herbert Dawid David F. Batten A.P. Thirlwall

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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

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

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

this book grew out of the teaching and lecture notes for a course in dynamic economics given at copenhagen university where it has been part of a combined study program in economics and mathematics since 1986 the subjects in the course have varied over time but a common theme has been the study of economies over time and under uncertainty in the form of incomplete markets and the overlapping generations model when i took up a position at lund university in 1996 mich tvede took over responsibility for the course and together we developed a large part of the material which formed the basis for the present book he has generously allowed me to use all of our common material there is a considerable overlap between general equilibrium theory with incomplete markets gei finance and macroeconomic theory which sterns from the considerations of time and uncertainty as can be seen from the splendid textbooks by leroy and werner 2001 pliska 1997 and the seminal work on gei by magill and quinzee 1996 in partic ular its historical

remarks which off er a brilliant history of modern economic theory the exposition here airns at making some of the results of gei and on overlapping generations og economies readily available to areader acquainted with economic theory at an upper undergraduate level

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 book reflects the state of the art in nonlinear economic dynamics providing a broad overview of dynamic economic models at different levels the wide variety of approaches ranges from theoretical and simulation analysis to methodological study in particular it examines the local and global asymptotical behavior of both macro and micro level mathematical models theoretically as well as using simulation it also focuses on systems with one or more time delays for which new methodology has to be developed to investigate their asymptotic properties the book offers a comprehensive summary of the existing methodology with extensions to the more complex model variants since considerations on bounded rationality of complex economic behavior provide the foundation underlying choice theoretic and policy oriented studies of macro behavior which impact the real macro economy it includes 13 chapters addressing traditional models such as monopoly duopoly and oligopoly in microeconomics and keynesian goodwinian and kaldor kaleckian models in macroeconomics each chapter presents new aspects of these traditional models that have never been seen before this work renews the past wisdom and reveals tomorrow s knowledge

this volume is centered around the issue of market design and resulting market dynamics the economic crisis of 2007 2009 has once again highlighted the importance of a proper design of market protocols and institutional details for economic dynamics and macroeconomics papers in this volume capture institutional details of particular markets behavioral details of agents decision making as well as spillovers between markets and effects to the macroeconomy computational methods are used to replicate and understand market dynamics emerging from interaction of heterogeneous agents and to develop models that have predictive power for complex market dynamics finally treatments of overlapping generations models and differential games with heterogeneous actors are provided

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

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

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

over the last two decades there has been a great deal of research into nonlinear dynamic models in economics finance and the social sciences this book contains twenty papers that range over very recent applications in these areas topics covered include structural change and economic growth disequilibrium dynamics and economic policy as well as models with boundedly rational agents the book illustrates some of the most recent research tools in this area and will be of interest to economists working in economic dynamics and to mathematicians interested in seeing ideas from nonlinear dynamics and complexity theory applied to the economic sciences

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

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cover half title title page copyright page contents list of tables list of figures preface chapter 1 introduction part i stabilization and control chapter 2 feedback and adaptive control for uncertain dynamical systems chapter 3 modelling and optimal control of random walk processes in economics chapter 4 stabilization and optimal management in the housing industry chapter 5 modelling the supply demand dynamics of a slowly renewable resource part ii differential games chapter 6 a competitive differential game of harvesting uncertain resources chapter 7 identification of stock and system parameters in a pareto harvesting game of two players part iii dynamic macroeconomic models chapter 8 the solution procedure for the orani model explained by a simple example chapter 9 analysis of the effects of time lags and nonlinearities in a macroeconomic model incorporating the government budget constraint part iv time series analysis and econometrics chapter 10 iterative fitting of a time series model chapter 11 the state space software saras forecasts better than the box jenkins method chapter 12 electricity demand modelling contributing authors author index subject index

sir roy harrod was one of the foremost economists of the twentieth century who made pioneering contributions in several branches of economics including trade cycle theory growth theory trade theory monetary economics imperfect competition theory and methodology this volume arises out of a conference to celebrate the sixtieth anniversary of the publication of his book the trade cycle in 1936 after an introductory essay by walter eltis a student of harrod this volume contains important essays on the interpretation of harrod s work in the field of economic dynamics by danial besomi and maurizio pugno and in the field of trade and growth by tony thirlwall john mccombie and luca bendictis finally warren young in the process of writing harrod s biography uses correspondence between harrod and haberler to elucidate harrod s views on trade theory international monetary reform and inflation

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