



George Alogoskoufis

# Dynamic Macroeconomics

# Models For Dynamic Macroeconomics

**Kathleen Armour**

## Models For Dynamic Macroeconomics:

**Models for Dynamic Macroeconomics** Fabio C. Bagliano, Giuseppe Bertola, 2004 Models for Dynamic Microeconomics provides the advanced student with key methodological tools for the dynamic analysis of a core selection of macroeconomic phenomena including consumption and investment choices employment and unemployment outcomes and economic growth The technical treatment of these tools will enable the student to handle current journal literature while not assuming any particular familiarity with advanced analytical tools or mathematical notions As these tools are introduced they are related to particular applications to illustrate their use Chapters are linked by various formal and substantive threads Discrete time optimization under uncertainty introduced in Chapter 1 is motivated and discussed by applications to consumption theory with particular attention to empirical implementation Chapter 2 focuses on continuous time optimization techniques and discusses the relevant insights in the context of partial equilibrium investment models Chapter 3 revisits many of the previous chapters formal derivations with applications to dynamic labour demand in comparison to optimal investment models and characterizes labor market equilibrium when not only individual firms labor demand but also individual labor supply by workers is subject to adjustment costs Chapter 4 proposes broader applications of methods introduced in the previous chapters and studies continuous time equilibrium dynamics of representative agent economies featuring both consumption and investment choices with applications to long run growth frameworks of analysis Chapter 5 illustrates the role of decentralized trading in determining aggregate equilibria and characterizes aggregate labor market dynamics in the presence of frictional unemployment Chapters 4 and 5 pay particular attention to strategic interactions and externalities even when each agent correctly solves his or her individual dynamic problem modern microfounded macroeconomic models recognize that macroeconomic equilibrium need not have unambiguously desirable properties By bridging the gap between undergraduate economics and modern microfounded macroeconomic research this book will be of interest to graduate students in economics and as a technical reference for economic researchers

*Models for Dynamic Macroeconomics* Fabio C. Bagliano, 2004 This title provides the student with key methodological tools for the dynamic analysis of a core selection of macroeconomic phenomena including consumption and investment choices employment and unemployment outcomes and economic growth

*Dynamic General Equilibrium Modeling* Burkhard Heer, Alfred Maußner, 2024-02-21 Contemporary macroeconomics is built upon microeconomic principles with its most recent advance featuring dynamic stochastic general equilibrium models The textbook by Heer and Maußner acquaints readers with the essential computational techniques required to tackle these models and employ them for quantitative analysis This third edition maintains the structure of the second dividing the content into three separate parts dedicated to representative agent models heterogeneous agent models and numerical methods At the same time every chapter has been revised and two entirely new chapters have been added The updated content reflects the latest advances in both numerical methods and their applications in macroeconomics spanning

areas like business cycle analysis economic growth theory distributional economics monetary and fiscal policy The two new chapters delve into advanced techniques including higher order perturbation weighted residual methods and solutions to high dimensional nonlinear problems In addition the authors present further insights from macroeconomic theory complemented by practical applications like the Smolyak algorithm Gorman aggregation rare disaster models and dynamic Laffer curves Lastly the new edition places special emphasis on practical implementation across various programming languages accordingly its accompanying web page offers examples of computer code for languages such as MATLAB GAUSS Fortran Julia and Python     **Stochastic Dynamic Macroeconomics** Gang Gong,Willi Semmler,2006-01-19 This is a book on stochastic dynamic macroeconomics from a Keynesian perspective It shows that including Keynesian features in intertemporal models considerably contributes to resolve major puzzles arising in the context of the Dynamic General Equilibrium DGE model It also demonstrates that including microeconomic intertemporal behavior of economic agents in macroeconomics is not inconsistent with Keynesian economics     **Dynamic Macroeconomic Theory** Thomas J. Sargent,2009-06-01 The tasks of macroeconomics are to interpret observations on economic aggregates in terms of the motivations and constraints of economic agents and to predict the consequences of alternative hypothetical ways of administering government economic policy General equilibrium models form a convenient context for analyzing such alternative government policies In the past ten years the strengths of general equilibrium models and the corresponding deficiencies of Keynesian and monetarist models of the 1960s have induced macroeconomists to begin applying general equilibrium models This book describes some general equilibrium models that are dynamic that have been built to help interpret time series of observations of economic aggregates and to predict the consequences of alternative government interventions The first part of the book describes dynamic programming search theory and real dynamic capital pricing models Among the applications are stochastic optimal growth models matching models arbitrage pricing theories and theories of interest rates stock prices and options The remaining parts of the book are devoted to issues in monetary theory currency in utility function models cash in advance models Townsend turnpike models and overlapping generations models are all used to study a set of common issues By putting these models to work on concrete problems in exercises offered throughout the text Sargent provides insights into the strengths and weaknesses of these models of money An appendix on functional analysis shows the unity that underlies the mathematics used in disparate areas of rational expectations economics This book on dynamic equilibrium macroeconomics is suitable for graduate level courses a companion book Exercises in Dynamic Macroeconomic Theory provides answers to the exercises and is also available from Harvard University Press

**Dynamic Macroeconomics** George Alogoskoufis,2019-12-17 An advanced treatment of modern macroeconomics presented through a sequence of dynamic equilibrium models with discussion of the implications for monetary and fiscal policy This textbook offers an advanced treatment of modern macroeconomics presented through a sequence of dynamic

general equilibrium models based on intertemporal optimization on the part of economic agents. The book treats macroeconomics as applied and policy oriented general equilibrium analysis examining a number of models each of which is suitable for investigating specific issues but may be unsuitable for others. After presenting a brief survey of the evolution of macroeconomics and the key facts about long run economic growth and aggregate fluctuations the book introduces the main elements of the intertemporal approach through a series of two period competitive general equilibrium models the simplest possible intertemporal models. This sets the stage for the remainder of the book which presents models of economic growth aggregate fluctuations and monetary and fiscal policy. The text focuses on a full analysis of a limited number of key intertemporal models which are stripped down to essentials so that students can focus on the dynamic properties of the models. Exercises encourage students to try their hands at solving versions of the dynamic models that define modern macroeconomics. Appendixes review the main mathematical techniques needed to analyze optimizing dynamic macroeconomic models. The book is suitable for advanced undergraduate and graduate students who have some knowledge of economic theory and mathematics for economists.

**Recursive Models of Dynamic Linear Economies** Lars Peter Hansen, Thomas J. Sargent, 2018-07-10 A guide to the economic modeling of household preferences from two leaders in the field. A common set of mathematical tools underlies dynamic optimization, dynamic estimation and filtering. In *Recursive Models of Dynamic Linear Economies* Lars Peter Hansen and Thomas Sargent use these tools to create a class of econometrically tractable models of prices and quantities. They present examples from microeconomics, macroeconomics and asset pricing. The models are cast in terms of a representative consumer. While Hansen and Sargent demonstrate the analytical benefits acquired when an analysis with a representative consumer is possible, they also characterize the restrictiveness of assumptions under which a representative household justifies a purely aggregative analysis. Hansen and Sargent unite economic theory with a workable econometrics while going beyond and beneath demand and supply curves for dynamic economies. They construct and apply competitive equilibria for a class of linear quadratic Gaussian dynamic economies with complete markets. Their book, based on the 2012 Gorman lectures, stresses heterogeneity, aggregation and how a common structure unites what superficially appear to be diverse applications. An appendix describes MATLAB programs that apply to the book's calculations.

**Dynamic Macroeconomic Analysis** Sumru Altug, Jagjit S. Chadha, Charles Nolan, 2003-11-20 Dynamic stochastic general equilibrium (DSGE) models have begun to dominate the field of macroeconomic theory and policy making. These models describe the evolution of macroeconomic activity as a recursive sequence of outcomes based upon the optimal decision rules of rational households, firms and policy makers. Whilst posing a micro founded dynamic optimisation problem for agents under uncertainty such models have been shown to be both analytically tractable and sufficiently rich for meaningful policy analysis in a wide class of macroeconomic problems for example monetary and fiscal policy, economic cycles and growth and capital flows. This volume collects specially commissioned papers

from leading researchers which pull together some of the key results in diverse areas This book will promote research using optimising models and inform researchers post graduate students and economists in policy oriented organisations of some of the key findings and policy implications **The ABCs of RBCs** George McCandless,2009-07-01 The first book to provide a basic introduction to Real Business Cycle RBC and New Keynesian models is designed to teach the economic practitioner or student how to build simple RBC models Matlab code for solving many of the models is provided and careful readers should be able to construct solve and use their own models **Dynamic Macroeconomic Models** Juan F. Rubio-Ramírez,2001

**Introduction to Dynamic Macroeconomic General Equilibrium Models** ,2015-04-15 This book offers an introductory step by step course in Dynamic Stochastic General Equilibrium modelling Modern macroeconomic analysis is increasingly concerned with the construction calibration and or estimation and simulation of Dynamic General Equilibrium DGE models The book is intended for graduate students as an introductory course to DGE modelling and for those economists who would like a hands on approach to learning the basics of modern dynamic macroeconomic modelling The book starts with the simplest canonical neoclassical DGE model and then gradually extends the basic framework incorporating a variety of additional features such as consumption habit formation investment adjustment cost investment specific technological change taxes public capital household production non ricardian agents monopolistic competition etc The book includes Dynare codes for the models developed that can be downloaded from the book s homepage **New Mathematical Advances in Economic Dynamics** David F. Batten,Paul F. Lesse,2018-02-28 Originally published in 1985 Mathematical methods and models to facilitate the understanding of the processes of economic dynamics and prediction were refined considerably over the period before this book was written The field had grown and many of the techniques involved became extremely complicated Areas of particular interest include optimal control non linear models game theoretic approaches demand analysis and time series forecasting This book presents a critical appraisal of developments and identifies potentially productive new directions for research It synthesises work from mathematics statistics and economics and includes a thorough analysis of the relationship between system understanding and predictability **Aggregation and the Microfoundations of Dynamic Macroeconomics** Mario Forni,Marco Lippi,1997 This book argues that modern macroeconomics has completely overlooked the aggregate nature of the data Standard models start with intertemporally maximizing agents and obtain dynamic equations linking economic variables like consumption income investment interest rate and employment Such equations exhibit testable properties like cointegration definite patterns of Granger causality and restrictions on the parameters The usual simplification that agents are identical leads to testing these properties directly on aggregate data Here this simplification is systematically questioned In Part I the homogeneity assumption is tested using disaggregate data and strongly rejected As shown in Part II the consequence of introducing heterogeneity is that apart from flukes cointegration unidirectional Granger causality restrictions on parameters do not survive aggregation thus the claim

that modern macroeconomics has solid microfoundations is unwarranted. However, it is argued in Part III that aggregation is not necessarily bad. Some important theory based models that do not fit aggregate data well in their representative agent version can be reconciled with aggregate data by introducing heterogeneity. **Dynamic General Equilibrium Modeling** Burkhard Heer, Alfred Maussner, 2009-02-03. Modern business cycle theory and growth theory uses stochastic dynamic general equilibrium models. In order to solve these models, economists need to use many mathematical tools. This book presents various methods in order to compute the dynamics of general equilibrium models. In part I the representative agent stochastic growth model is solved with the help of value function iteration, linear and linear quadratic approximation methods, parameterised expectations and projection methods. In order to apply these methods, fundamentals from numerical analysis are reviewed in detail. In particular, the book discusses issues that are often neglected in existing work on computational methods, e.g. how to find a good initial value. In part II the authors discuss methods in order to solve heterogeneous agent economies. In such economies the distribution of the individual state variables is endogenous. This part of the book also serves as an introduction to the modern theory of distribution economics. Applications include the dynamics of the income distribution over the business cycle or the overlapping generations model. In an accompanying home page to this book computer codes to all applications can be downloaded.

**Dynamic Macroeconomics with Imperfect Competition** Leo Kaas, 1999-08-19. This thesis was stimulated throughout the time of my participation in a research project on Dynamic Macroeconomics supported by the German Research Foundation DFG. The starting point was the central question of how to integrate price setting firms in a dynamic disequilibrium model. Almost all recent literature on imperfect competition in macroeconomics applies the objective demand approach by assuming that firms know the true demand curve they are faced with. While this approach can be applied in temporary monetary equilibrium models, it proves inadequate for formulating price adjustment in a dynamic disequilibrium model where it has to be replaced by the concept of subjective demand. Based on this distinction the thesis starts out with a comparison of the concepts of subjective and objective demand in an abstract framework and surveys the literature on general equilibrium theory with imperfect competition. The objective demand approach is criticized not only on the grounds of its strong rationality requirements and existence problems but also by the observation that it cannot be applied successfully to characterize determinate rational expectations equilibria in intertemporal macroeconomics. Finally price setting firms using subjective demand functions are integrated in a dynamic disequilibrium model in order to study monopolistic and oligopolistic price adjustment. **Introduction to Dynamic Macroeconomic General Equilibrium Models** José Luis Torres Chacon, 2015-07-06. This book offers an introductory step by step course in Dynamic Stochastic General Equilibrium modelling. Modern macroeconomic analysis is increasingly concerned with the construction, calibration and/or estimation and simulation of Dynamic General Equilibrium DGE models. The book is intended for graduate students as an introductory course to DGE modelling and for those economists who would like a hands

on approach to learning the basics of modern dynamic macroeconomic modelling The book starts with the simplest canonical neoclassical DGE model and then gradually extends the basic framework incorporating a variety of additional features such as consumption habit formation investment adjustment cost investment specific technological change taxes public capital household production non ricardian agents monopolistic competition etc The book includes Dynare codes for the models developed that can be downloaded from the book s homepage

### **Bayesian Comparison of Dynamic Macroeconomics**

**Models** John Stanley Landon-Lane,1998 [Exercises in Dynamic Macroeconomic Theory](#) Rodolfo E. Manuelli,Thomas J Sargent,2009-06-01 This book is a companion volume to Dynamic Macroeconomic Theory by Thomas J Sargent It provides scrimmages in dynamic macroeconomic theory precisely the kind of drills that people will need in order to learn the techniques of dynamic programming and its applications to economics By doing these exercises the reader can acquire the ability to put the theory to work in a variety of new situations build technical skill gain experience in fruitful ways of setting up problems and learn to distinguish cases in which problems are well posed from cases in which they are not The basic framework provided by variants of a dynamic general equilibrium model is used to analyze problems in macroeconomics and monetary economics An equilibrium model provides a mapping from parameters of preferences technologies endowments and rules of the game to a probability model for time series The rigor of the logical connections between theory and observations that the mapping provides is an attractive feature of dynamic equilibrium or rational expectations models This book gives repeated and varied practice in constructing and interpreting this mapping

**Introduction to Dynamic Macroeconomic General Equilibrium Models** Jose L. Chacon,José Luis Torres,2014-02-20 This book offers an introductory step by step course to Dynamic Stochastic General Equilibrium modelling Modern macroeconomic analysis is increasingly concerned with the construction calibration and or estimation and simulation of Dynamic General Equilibrium DGE models The book is intended for graduate students as an introductory course to DGE modelling and for those economists who would like a hands on approach to learning the basics of modern dynamic macroeconomic modelling The book starts with the simplest canonical neoclassical DGE model and then gradually extends the basic framework incorporating a variety of additional features such as consumption habit formation investment adjustment cost investment specific technological change taxes public capital household production non ricardian agents monopolistic competition etc The book includes Dynare codes for the models developed that can be downloaded from the book s homepage

**The Dynamic Macroeconomic Effects of Public Capital** Christophe Kamps,2004-12-22 This book analyzes the dynamic macroeconomic effects of public capital in industrialized countries The issue of whether public capital is productive has received a great deal of recent attention Yet existing empirical analyses have been limited to a small set of countries This book presents a new database that provides internationally comparable capital stock estimates for 22 OECD countries for the 1960 2001 period Building on this database the book estimates the dynamic effects of public capital using a variety of

econometric methods. The results suggest that public capital is productive in OECD countries on average. The theoretical analysis based on a dynamic general equilibrium model shows that the effects of public capital depend crucially on the way the government chooses to finance additional spending.

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