

Dynamic Macroeconomic Theory

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Macroeconomic Theory MIT Press

The development of the endogenous growth model rekindled interest in growth theory. In contrast to the neo-classical model, long-run endogenous growth emerged as an equilibrium outcome, reflecting the behaviour of optimizing agents in the economy. This book brings together a number of contributions in growth theory and macroeconomic dynamics, reflecting these developments and the ongoing debate over the relative merits of neo-classical and endogenous growth models. It focuses on the emergence of three important aspects: First, it develops growth models that extend the underlying theory in different directions. Second, it addresses one of the concerns of the literature on growth and dynamics: the statistical properties of underlying data and the effort to ensure that growth models are consistent with empirical evidence. Third, it discusses the increasingly international focus of macrodynamics and growth theory, an inevitable consequence of the integration of the world economy.

Dynamic Econometrics For Empirical Macroeconomic Modelling Dynamic Macroeconomic Theory

This manual presents solutions to problems contained in Thomas Sargent's *Macroeconomic Theory 2/e*. The exercises not only illustrate the theoretical foundations of macroeconomic research but also treat issues and problems from the recent literature.

Economic Growth and Macroeconomic Dynamics Harvard University Press

Economies are constantly in flux, and economists have long sought reliable means of analyzing their dynamic properties. This book provides a succinct and accessible exposition of modern dynamic (or intertemporal) macroeconomics. The authors use a microeconomics-based general equilibrium framework, specifically the overlapping generations model, which assumes that in every period there are two generations which overlap. This model allows the authors to fully describe economies over time and to employ traditional welfare analysis to judge the effects of various policies. By choosing to keep the mathematical level simple and to use the same modeling framework throughout, the authors are able to address many subtle economic issues. They analyze savings, social security systems, the determination of interest rates and asset prices for different types of assets, Ricardian equivalence, business cycles, chaos theory, investment, growth, and a variety of monetary phenomena. *Introduction to Dynamic Macroeconomic Theory* will become a classic of economic exposition and a standard teaching and reference tool for intertemporal macroeconomics and the overlapping generations model. The writing is exceptionally clear. Each result is illustrated with analytical derivations, graphically, and by

worked out examples. Exercises, which are strategically placed, are an integral part of the book.

Recursive Macroeconomic Theory Vernon Press

The standard theory of decision making under uncertainty advises the decision maker to form a statistical model linking outcomes to decisions and then to choose the optimal distribution of outcomes. This assumes that the decision maker trusts the model completely. But what should a decision maker do if the model cannot be trusted? Lars Hansen and Thomas Sargent, two leading macroeconomists, push the field forward as they set about answering this question. They adapt robust control techniques and apply them to economics. By using this theory to let decision makers acknowledge misspecification in economic modeling, the authors develop applications to a variety of problems in dynamic macroeconomics. Technical, rigorous, and self-contained, this book will be useful for macroeconomists who seek to improve the robustness of decision-making processes.

Complexity, Endogenous Money and Macroeconomic Theory Edward Elgar Publishing

The ABCs of RBCs is the first book to provide a basic introduction to Real Business Cycle (RBC) and New-Keynesian models. These models argue that random shocks—new inventions, droughts, and wars, in the case of pure RBC models, and monetary and fiscal policy and international investor risk aversion, in more open interpretations—can trigger booms and recessions and can account for much of observed output volatility. George McCandless works through a sequence of these Real Business Cycle and New-Keynesian dynamic stochastic general equilibrium models in fine detail, showing how to solve them, and how to add important extensions to the basic model, such as money, price and wage rigidities, financial markets, and an open economy. The impulse response functions of each new model show how the added feature changes the dynamics. *The ABCs of RBCs* 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. In the tradition of the “freshwater” economic schools of Chicago and Minnesota, McCandless enhances the methods and sophistication of current macroeconomic modeling.

Macroeconomic Theory Cambridge University Press

This graduate textbook is a primer in macroeconomics. It starts from essential undergraduate macroeconomics and develops the central topics of modern macroeconomic theory in a simple and rigorous manner. All topics essential for first year graduate students are covered. These include rational expectations, intertemporal dynamic models, exogenous and endogenous growth, nonclearing markets and imperfect competition, uncertainty, and money. The book also covers real business

cycles and dynamic stochastic general equilibrium models, integrating growth and fluctuations, sticky wages and prices, consumption and investment, and unemployment. Lastly, it studies government policy, stabilization, credibility, and the connections between politics and the macroeconomy. Each topic is presented in the simplest model possible while still delivering the relevant answers and keeping rigorous foundations throughout the book. To make the book fully self-contained there is a mathematical appendix that gives all necessary mathematical results.

Topics in Dynamic Macroeconomic Theory Springer

That the chapters in the volume cover such a wide range of important, often fundamental, topics is a proper tribute to Basil Moore's influence and contributions over his working life. From the foreword by G.C. Harcourt, Jesus College, Cambridge, UK During a distinguished career, Basil Moore has made numerous important contributions to macroeconomics and monetary economics, and is renowned as the progenitor of the horizontalist analysis of endogenous money. More recently, he has embraced complexity theory as part of an ongoing effort to understand macroeconomics as an evolving, path-dependent process. This book celebrates and explores Basil Moore's interests in and contributions to monetary and macroeconomic theory. *Complexity, Endogenous Money and Macroeconomic Theory* features original essays by internationally acclaimed and expert authors. It comprises a selection of papers on five distinct but interrelated themes: economic concepts, tools and methodology; complexity, uncertainty and path dependence; the macroeconomics of endogenous money; the macroeconomics of exogenous interest rates; and unemployment, inflation and the determination of aggregate income. These papers combine to provide a comprehensive methodological and theoretical discussion of the macroeconomics of a monetary production economy. The book will be of interest to professionals and research students in the fields of macroeconomics and monetary economics especially those with an interest in the Post Keynesian approach to analyzing these fields, including the wide audience that has been reached by the contributions of Basil Moore himself.

Dynamic Macroeconomic Theory Springer Nature

This textbook offers a unique approach to macroeconomic theory built on microeconomic foundations of monetary macroeconomics within a unified framework of an intertemporal general equilibrium model extended to a sequential and dynamic analysis. It investigates the implications of expectations and of stationary fiscal policies on allocations, on the quantity of money, and on the dynamic evolution of the economy with and without noise. The text contrasts and compares the two main competing approaches in macroeconomics within the same intertemporal model of a

closed monetary economy: the one postulating full price flexibility to guarantee equilibrium in all markets at all times under perfect foresight or rational expectations, versus the so called disequilibrium approach where trading occurs at non-market-clearing prices and wages when these adjust sluggishly from period to period in response to market disequilibrium signals.

Studies in Macroeconomic Theory MIT Press

In *The Conquest of American Inflation*, Thomas J. Sargent presents an analysis of the rise and fall of U.S. inflation after 1960. He examines two broad explanations for the behavior of inflation and unemployment in this period: the natural rate hypothesis joined to the Lucas critique and a more traditional econometric policy evaluation modified to include adaptive expectations and learning. His purpose is not only to determine which is the better account, but also to codify for the benefit of the next generation the economic forces that cause inflation. Providing an original methodological link between theoretical and policy economics, this book will engender much debate and become an indispensable text for academics, graduate students, and professional economists.

Macroeconomic Theory Oxford University Press

Studies in Macroeconomic Theory, Volume 1: Employment and Inflation is a collection of scholarly papers that accounts the development of a microeconomic theory of wage and price decisions and commitments. The book presents some features of the modern inflationary process and makes sense of some still accepted elements in the postclassical macroeconomics of Keynes and Phillips. The papers in this volume are grouped into seven sections. Part I describes disequilibrium models of employment. Part II gives closer scrutiny to the idea of the "natural" rate of unemployment. Part III studies the welfare economics of inflation in an equilibrium context. The fourth part deals with inflation planning. The papers in Part V discuss hypotheses about the causes of the rise in the rate of inflation in two historical episodes: the American inflation between 1955 - 1957 and 1972 - 1974. Part VI addresses some questions in the theory of economic stabilization by monetary and fiscal policy. The final section of this volume attempts to apply to matters of stochastic social choice, stabilization policy being one instance of such a choice, the conception of justice advanced by Rawls. The compendium will be of value to economists and economic policy makers.

Recursive Methods in Economic Dynamics Harvard University Press

A fully expanded edition of the Nobel Prize-winning economist's classic book *This collection of essays uses the lens of rational expectations theory to examine how governments anticipate and plan for inflation, and provides insight into the pioneering research for which Thomas Sargent was awarded the 2011 Nobel Prize in economics. Rational expectations theory is based on the simple premise that people will use all the information available to them in making economic decisions, yet applying the theory to macroeconomics and econometrics is technically demanding. Here, Sargent engages with practical problems in economics in a less formal, noneconometric way, demonstrating how rational expectations can satisfactorily interpret a range of historical and contemporary events. He focuses on periods of actual or threatened depreciation in the value of a nation's currency. Drawing on historical attempts to counter inflation, from the French Revolution and the aftermath of World War I to the economic policies of Margaret Thatcher and Ronald Reagan, Sargent finds that there is no purely monetary cure for inflation; rather, monetary and fiscal policies must be coordinated. This fully expanded edition of *Rational Expectations and Inflation* includes Sargent's 2011 Nobel lecture, "United States Then, Europe Now." It also features new articles on the macroeconomics of the French Revolution and government budget deficits.*

Macroeconomic Analysis Princeton University Press

Dynamic Macroeconomic Theory Harvard University Press

Robustness Princeton University Press

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.

Dynamic Macroeconomic Analysis Oxford University Press on Demand

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.

Recursive Macroeconomic Theory, fourth edition Oxford University Press

Recursive methods offer a powerful approach for characterizing and solving complicated problems in dynamic macroeconomics. *Recursive Macroeconomic Theory* provides both an introduction to recursive methods and advanced material, mixing tools and sample applications. The second edition contains substantial revisions to about half the original material, and extensive additional coverage appears in seven chapters new to this edition. The updated and added material covers exciting new topics that further illustrate the power and pervasiveness of recursive methods. Significant improvements to original chapters include a better treatment of the existence of recursive equilibria, an enhanced account of the supermartingale convergence theorem, and an extended treatment of an optimal taxation problem in an economy in which there are incomplete markets.

Macroeconomic Theory MIT Press

Just as macroeconomic models describe the overall economy within a changing, or dynamic, framework, the models themselves change over time. In this text Stephen J. Turnovsky reviews in depth several early models as well as a representation of more recent models. They include traditional (backward-looking) models, linear rational expectations (future-looking) models, intertemporal optimization models, endogenous growth models, and continuous time stochastic models. The author uses examples from both closed and open economies. Whereas others commonly introduce models in a closed context, tacking on a brief discussion of the model in an open economy, Turnovsky integrates the two perspectives throughout to reflect the increasingly international outlook of the field. This new edition has been extensively revised. It contains a new chapter on optimal monetary and fiscal policy, and the coverage of growth theory has been expanded substantially. The range of growth models considered has been extended, with particular attention devoted to transitional dynamics and nonscale growth. The book includes cutting-edge research and unpublished data, including much of the author's own work.

Problems in Macroeconomic Theory World Scientific

Macroeconomic Theory, in its first edition, was widely adopted for use as a graduate text; this updated and expanded version should find even greater popularity as a text and as a research reference. It has been substantially revised to include three entirely new chapters: The Consumption Function, Government Debt and Taxes, and Dynamic Optimal Taxation. Significant additions have been made to three of the original chapters dealing with difference equations, stochastic difference equations, and investment under uncertainty. Key Features* This book has been substantially revised to include three entirely new chapters on consumption, government debt and taxes, and dynamic optimal taxation* Significant additions have been made to three of the original chapters dealing with difference equations, stochastic difference equations, and investment under uncertainty

Methods for Applied Macroeconomic Research Random House (NY)

The definitive graduate textbook on modern macroeconomics *Macroeconomic Theory* is the most up-to-date graduate-level macroeconomics textbook available today. This revised second edition emphasizes the general equilibrium character of macroeconomics to explain effects across the whole economy while taking into account recent research in the field. It is the perfect resource for students and researchers seeking coverage of the most current developments in macroeconomics. Michael Wickens lays out the core ideas of modern macroeconomics and its links with finance. He presents the simplest general equilibrium macroeconomic model for a closed economy, and then gradually develops a comprehensive model of the open economy. Every important topic is covered, including growth, business cycles, fiscal policy, taxation and debt finance, current account sustainability, and exchange-rate determination. There is also an up-to-date account of monetary policy through inflation targeting. Wickens addresses the interrelationships between macroeconomics and modern finance and shows how they affect stock, bond, and foreign-exchange markets. In this edition, he also examines issues raised by the most recent financial crisis, and two new chapters explore banks, financial intermediation, and unconventional monetary policy, as well as modern theories of unemployment. There is new material in most other chapters, including macrofinance models and inflation targeting when there are supply shocks. While the mathematics in the book is rigorous, the fundamental concepts presented make the text self-contained and easy to use. Accessible, comprehensive, and wide-ranging, *Macroeconomic Theory* is the standard book on the subject for students and economists. The most up-to-date graduate macroeconomics textbook available today General equilibrium macroeconomics and the latest advances covered fully and completely Two new chapters investigate banking and monetary policy, and unemployment Addresses questions raised by the recent financial crisis Web-based exercises with answers Extensive mathematical appendix for at-a-glance easy reference This book has been adopted as a textbook at the following universities: American University Bentley College Brandeis University Brigham Young University California Lutheran University California State University - Sacramento Cardiff University Carleton University Colorado College Fordham University London Metropolitan University New York University Northeastern University Ohio University - Main Campus San Diego State University St. Cloud State University State University Of New York - Amherst Campus State University Of New York - Buffalo North Campus Temple University - Main Texas Tech University University of Alberta University Of Notre Dame University Of Ottawa University Of Pittsburgh University Of South Florida - Tampa University Of Tennessee University Of Texas At Dallas University Of Washington University Of Western Ontario Wesleyan University Western Nevada Community College

The Macroeconomic Theory of Exchange Rate Crises MIT Press

This book brings the tools of advanced macroeconomics to those interested in their application to policy-making. With rigor but a light touch, it is a great resource for students and practitioners alike.

Introduction to Dynamic Macroeconomic Theory Princeton University Press

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.