

# Recursive Methods in Economic Dynamics

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Nancy L. Stokey and  
Robert E. Lucas, Jr.  
with Edward C. Prescott

# Recursive Methods In Economic Dynamics

**Leo Ferraris**



## **Recursive Methods In Economic Dynamics:**

*Recursive Methods in Economic Dynamics* Nancy L. Stokey, Robert E. Lucas Jr., 1989-10-10 This rigorous but brilliantly lucid book presents a self contained treatment of modern economic dynamics Stokey Lucas and Prescott develop the basic methods of recursive analysis and illustrate the many areas where they can usefully be applied

*Recursive Methods in Economic Dynamics* Nancy L. Stokey, 1989

*Solutions Manual for Recursive Methods in Economic Dynamics* Claudio Irigoyen, Esteban Rossi-Hansberg, Mark L. J. Wright, 2002 This solutions manual is a companion volume to the classic textbook *Recursive Methods in Economic Dynamics* by Stokey Lucas and Prescott Efficient and lucid in approach this manual will greatly enhance the value of *Recursive Methods* as a text for self study

**Solutions Manual for Recursive Methods in Economic Dynamics** Claudio IRIGOYEN, Esteban Rossi-Hansberg, Mark L. J Wright, 2021 This solutions manual is a companion volume to the classic textbook *Recursive Methods in Economic Dynamics* by Nancy L Stokey and Robert E Lucas Efficient and lucid in approach this manual will greatly enhance the value of *Recursive Methods* as a text for self study

**Macroeconomic Theory** Leo Ferraris, 2025-07-06 This book offers a comprehensive introduction to modern macroeconomic theory bridging foundational concepts with contemporary applications It begins by exploring the core macroeconomic model featuring rational agents and competitive markets the cornerstone for analyzing business cycles economic growth and asset pricing From there it transitions to more complex frameworks including models that incorporate market imperfections and strategic interactions crucial for understanding liquidity challenges and financial crises Designed as a primer this text explains the theoretical foundations of modern macroeconomics in an accessible way without relying on advanced recursive techniques

**Nonlinear Economic Dynamics and Financial Modelling** Roberto Dieci, Xue-Zhong He, Cars Hommes, 2014-07-26 This book reflects the state of the art on nonlinear economic dynamics financial market modelling and quantitative finance It contains eighteen papers with topics ranging from disequilibrium macroeconomics monetary dynamics monopoly financial market and limit order market models with boundedly rational heterogeneous agents to estimation time series modelling and empirical analysis and from risk management of interest rate products futures price volatility and American option pricing with stochastic volatility to evaluation of risk and derivatives of electricity market The book illustrates some of the most recent research tools in these areas and will be of interest to economists working in economic dynamics and financial market modelling to mathematicians who are interested in applying complexity theory to economics and finance and to market practitioners and researchers in quantitative finance interested in limit order futures and electricity market modelling derivative pricing and risk management

*Economic Dynamics, second edition* John Stachurski, 2022-08-16 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

**Economic Dynamics in Discrete Time** Jianjun Miao, 2014-09-19 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

*Journal of Economic Dynamics & Control*, 2003 *Introduction to Computational Economics Using Fortran* Hans Fehr, Fabian Kindermann, 2018 Introduction to Computational Economics Using Fortran is the essential guide to conducting economic research on a computer Aimed at students of all levels of education as well as advanced economic researchers it facilitates the first steps into writing programs using Fortran Introduction to

Computational Economics Using Fortran assumes no prior experience as it introduces the reader to this programming language It shows the reader how to apply the most important numerical methods conducted by computational economists using the toolbox that accompanies this text It offers various examples from economics and finance organized in self contained chapters that speak to a diverse range of levels and academic backgrounds Each topic is supported by an explanation of the theoretical background a demonstration of how to implement the problem on the computer and a discussion of simulation results Readers can work through various exercises that promote practical experience and deepen their economic and technical insights This textbook is accompanied by a website from which readers can download all program codes as well as a numerical toolbox and receive technical information on how to install Fortran on their computer

Recursive Macroeconomic Theory Lars Ljungqvist, Thomas J. Sargent, 2004 A significant new edition of a text that offers both tools and sample applications extensive revisions and seven new chapters improve and expand upon the original treatment The Canadian Journal of Economics , 1998 A general interest journal in economics *Three Essays on Macroeconomic Theory* Heegab Choi, 1994 Review of Economic Dynamics Society for Economic Dynamics, 2001

Handbook of Population and Family Economics Mark Richard Rosenzweig, Oded Stark, 1997 The collection of chapters in the Handbook of population and family economics and their organization reflect the most recent developments in economics pertaining to population issues and the family The rationale contents and organization of the Handbook evolve from three premises First the family is the main arena in which population outcomes are forged Second there are important interactions and significant causal links across all demographic phenomena Third the study of the size composition and growth of a population can benefit from the application of economic methodology and tools The diversity and depth of the work reviewed and presented in the Handbook conveys both the progress that has been made by economists in understanding the forces shaping population processes including the behavior of families and the many questions empirical and theoretical that still remain Handbook of Population and Family Economics M.R. Rosenzweig, Oded Stark, 1997-04-23 Comprises 21 articles that survey areas of research in population and family economics

Distribution Dynamics in European Venture Capital Michael Stolpe, 2003 Journal of Economic Theory Pennsylvania, 2003 **Proceedings of the 2004 First Annual DG ECFIN Research Conference on "Business Cycles and Growth in Europe"** Lars Jonung, 2005 In October 2004 the Directorate General for Economic and Financial Affairs ECFIN held its first annual research conference Its theme was Business Cycles and Growth in Europe The thirteen papers presented are collected here in revised form in two volumes as Economic Paper number 227 1 2 and 2 2 Some of the contributions are followed by comments made by the discussants

**INTERNATIONAL JOURNAL OF INDUSTRIAL ORGANIZATION** , 2003

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