

## Macroeconomics Problems And Solutions

This book started as a collection of my teaching notes for the ECON 52 course that I taught at Stanford University. The objective of that course, and of this book, is to introduce students to the ideas and way of thinking of modern macroeconomics in a unified way that is accessible with a moderate amount of maths. Modern macroeconomics emphasizes explicit microeconomic foundations and general equilibrium analysis, combined with various kinds of constraints and market imperfections. When preparing the class I thought none of the existing textbooks conveyed this in a way that I liked, so I prepared my own notes, which then grew into this book. While mostly self-contained, the book is probably most useful to students who are familiar with the basics of multivariable calculus and have taken a calculus-based microeconomics class.

This textbook examines corruption through a macroeconomic lens, exploring the relationship between corruption, fiscal policy, and political economy. The book merges macroeconomic growth models with elements of political economic theory to address important applied topics such as income inequality within and across countries, growth slowdowns, and fiscal crises. Most of the basic ideas are illustrated using a two-period model of government investment that captures the future cost of policies that favor the present (Chapters 2-3). The more subtle and advanced issues are illustrated and, in some cases, quantified, using the overlapping-generations model of economic growth (Chapters 4-6). The models used to illustrate the mechanisms of economic growth are extended to incorporate politics and the behavior of public officials (Chapters 3, 5-7). The text concludes with a thorough discussion of policy reforms designed to address the issues discussed in earlier chapters. Intended for students familiar with intermediate-level economics, the book contains a technical appendix, including detailed explanations of each model, end-of-chapter questions and problems, and a complete solutions manual, making it ideal for self-study. Offering a unified explanation for the causes and consequences of government failure, fiscal crisis, and the needed policy reforms, this text is appropriate for advanced undergraduate and beginning graduate courses in macroeconomics, political economy, and public policy.

Principles of Microeconomics 2e covers the scope and sequence of most introductory microeconomics courses. The text includes many current examples, which are handled in a politically equitable way. The outcome is a balanced approach to the theory and application of economics concepts. The second edition has been thoroughly revised to increase clarity, update data and current event impacts, and incorporate the feedback from many reviewers and adopters. The text and images in this book are grayscale. The first (previous) edition of Principles of Microeconomics via OpenStax is available via ISBN 9781680920093.

Economic concepts and techniques presented through a series of "big questions," models that show how to pose a questions rigorously and work toward an answer. This book helps readers master economic concepts and techniques by tackling fundamental economic and political questions through a series of models. It is organized around a sequence of "big questions," among them: When do markets help translate individuals' uncoordinated, selfish actions into outcomes that are best for all? Do markets change people, and, if so, for worse or better? Translated into the language of modern economics, do Marx's ideas have

merit? Why is there so much income inequality? Or is there too little? The arguments are in the theorem-proof format, distinguishing results derived in the context of fully specified models from educated speculation. Readers will learn how to pose a question rigorously and how to work toward an answer, and to appreciate that even (especially!) the broadest and most ambitious questions call for a model. The goal of the book is not to indoctrinate but to show readers how to reason toward their own conclusions. The first chapter, on the Walrasian model of general equilibrium, serves as the prerequisite for the rest of the book. The remaining chapters cover less conventional topics, including the morality of markets; matching theory; Marxism, socialism, and the resilience of markets; a formalization of Kant's categorical imperative; unintended consequences of policy design; and theories of justice. The book can be used as a textbook for advanced undergraduate or graduate students or as a resource for researchers in disciplines that draw on normative economics.

"Provide an approachable, superbly written introduction to economics that allows all types of students to quickly grasp economic concepts and build a strong foundation with Mankiw's popular Principles of economics, 8E. The most widely-used text in economics classrooms worldwide, this book covers only the most important principles to avoid overwhelming students with excessive detail. Extensive updates feature relevant examples to engage students. MindTap and Aplia digital course solutions are available to improve student engagement and retention with powerful student-focused resources. Within MindTap, students can use the highly acclaimed Graph Builder and Adaptive Test Prep features. All content has been carefully crafted around understanding student needs at key moments in your course. A team of award-winning teaching economists have added more relevance, engagement, and interactivity to teaching resources in this book's ancillary package, already the most commanding in the industry."--

In this book, John P. Burkett presents microeconomics as an evolving science, interacting with mathematics, psychology, and other disciplines and offering solutions to a growing range of practical problems. The book shows how early contributors such as Xenophon, Ibn Khaldun, and David Hume posed the normative and positive questions central to microeconomics. It expounds constrained optimization techniques, as developed by economists and mathematicians from Daniel Bernoulli to Leonid Kantorovich, emphasizing their value in deriving norms of rational behavior and testable hypotheses about typical behavior. Applying these techniques, the book introduces partial equilibrium analysis of particular markets and general equilibrium analysis of market economies. The book both explains how laboratory and field experiments are used in testing economic hypotheses and provides materials for classroom experiments. It gives extensive and innovative coverage of recent findings in cognitive psychology and behavioral economics, which not only document behavior inconsistent with some traditional theories, but also advance positive theories with superior predictive power.

On October 30-31, 1981, the Center for the Study of American Business and the Federal Reserve Bank of St. Louis cosponsored their sixth annual conference, "Improving Money Stock Control: Problems, Solutions, and Consequences." This book contains the papers and comments delivered at that conference. The Federal Reserve System has moved, over the last decade, toward setting

policy in terms of explicit and publicly announced monetary aggregate targets - specifically, growth ranges for alternative measures of the money supply. This conference, as the title suggests, was wide ranging in its discussions of monetary control. But rather than dealing with the merits of monetary aggregate targeting, its focus was instead on solving the problems associated with, and evaluating the consequences of, improved monetary control. The initial paper outlines the current operating procedures followed by the Federal Reserve and suggests reforms to improve monetary control. The following three discussion papers in Part I critically examine the Fed's operating procedures. The two papers in Part II discuss the experience of other countries with monetary aggregate targeting - the United Kingdom and Switzerland, respectively - and Part III examines the consequences of improved monetary control.

Macroeconomics is the first text to truly reflect today's macroeconomy. In this teachable, coherent book, the author makes complex topics easily understandable for undergraduates and combines innovative treatment of both the short run and the long run with a strong emphasis on problem solving.

Solutions to odd-numbered problem set questions in Modern Macroeconomics. Solutions to odd-numbered problem set questions in Modern Macroeconomics.

This textbook examines corruption through a macroeconomic lens, exploring the relationship between corruption, fiscal policy, and political economy. It merges macroeconomic growth models with elements of political economic theory to address important applied topics such as income inequality within and across countries, growth slowdowns, and fiscal crises. Revised and updated to include new research findings and recent policy discussions, the second edition contains 15 new sections and 2 new chapters on topics such as public defaults, the wage elasticity of work and the interest elasticity of saving, and the economic and fiscal impact of the 2020 pandemic. Most of the basic ideas are illustrated using a two-period model of government investment that captures the future cost of policies that favor the present. The more subtle and advanced issues are illustrated and, in some cases, quantified, using the overlapping-generations model of economic growth. The models used to illustrate the mechanisms of economic growth are extended to incorporate politics and the behavior of public officials. The text concludes with a thorough discussion of policy reforms designed to address the issues discussed in earlier chapters. Intended for students familiar with intermediate-level economics, the second edition contains a technical appendix, expanded end-of-chapter questions and problems, and a complete solutions manual. The second edition also offers updated resources for instructors, including sample syllabi and over 550 multiple choice questions. Offering a unified explanation for the causes and consequences of government failure, fiscal crisis, and needed policy reforms, this text is appropriate for advanced undergraduate and beginning graduate courses in macroeconomics, political economy, and public policy.

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.

The substantially revised fourth edition of a widely used text, offering both an introduction to recursive methods and advanced material, mixing tools and sample applications. Recursive methods provide powerful ways to pose and solve problems in dynamic macroeconomics. Recursive Macroeconomic Theory offers both an introduction to recursive methods and more advanced material. Only practice in solving diverse problems fully conveys the advantages of the recursive approach, so the book provides many applications. This fourth edition features two new chapters and substantial revisions to other chapters that demonstrate the power of recursive methods. One new chapter applies the recursive approach to Ramsey taxation and sharply characterizes the time inconsistency of optimal policies. These insights are used in other chapters to simplify recursive formulations of Ramsey plans and credible government policies. The second new chapter explores the mechanics of matching models and identifies a common channel through which productivity shocks are magnified across a variety of matching models. Other chapters have been extended and refined. For example, there is new material on heterogeneous beliefs in both complete and incomplete markets models; and there is a deeper account of forces that shape aggregate labor supply elasticities in lifecycle models. The book is suitable for first- and second-year graduate courses in macroeconomics. Most chapters conclude with exercises; many exercises and examples use Matlab or Python computer programming languages.

A conservative approach to economic growth has dominated policy circles for close to two decades. This approach holds that the key to restoring economic growth lies in reducing the size and role of government in the market economy through deregulation of the financial sector, privatization, and lower taxes. The contributors to this book argue that the principles of "trickle down" economics are of dubious validity, and have led to economic stagnation, high unemployment, and increasing inequality. They develop a new perspective on macroeconomic policy, one affirming that egalitarian and democratic economic structures are not only compatible with economic revival, but in fact offer the best hope for sustainable growth of living standards. Their alternative recognizes that markets have an important role to play, but only within the framework of macroeconomic stability, corrections of market failures, and egalitarian rules of the game.

A look at all the key topics in intermediate-level macroeconomic theory with carefully chosen linear versions of the standard models of both the closed and the open economy. It requires no mathematical proficiency beyond high school level algebra, and has been thoroughly tested in the classroom.

Macroeconomics in Context lays out the principles of macroeconomics in a manner that is thorough, up to date, and relevant to students. Like its counterpart, Microeconomics in Context, the book is attuned to economic realities--and it has a bargain price. The in Context books offer affordability, engaging treatment of high-interest topics from sustainability to financial crisis and rising inequality, and clear, straightforward presentation of economic theory. Policy issues are presented in context--historical, institutional, social, political, and ethical--and always with reference to human well-being.

The study of macroeconomics can seem a daunting project. The field is complex and sometimes poorly defined and there are a variety of competing approaches. It is easy for the senior bachelor and starting master student to get lost in the forest of macroeconomics and the mathematics it uses extensively. Foundations of Modern Macroeconomics is a guide book for the

interested and ambitious student. Non-partisan in its approach, it deals with all the major topics, summarising the important approaches and providing the reader with a coherent angle on all aspects of macroeconomic thought. Each chapter deals with a separate area of macroeconomics, and each contains a summary section of key points and a further reading list. Using nothing more than undergraduate mathematical skills, it takes the student from basic IS-LM style macro models to the state of the art literature on Dynamic Stochastic General Equilibrium, explaining the mathematical tricks used where they are first introduced. Fully updated and substantially revised, this third edition of Foundations of Modern Macroeconomics now includes brand new chapters covering highly topical subjects such as dynamic programming, competitive risk sharing equilibria and the New Keynesian DSGE approach.

More than 100,000 copies sold in its first 2 editions; Over 93,000 students enrolled; Translated into 12 languages; Corresponds to standard college economics courses; Use with most macroeconomics texts; Includes a new chapter on economic growth.

Developed in the classroom by two of the most prominent researchers in the field, Feenstra and Taylor's International Economics is a modern textbook for a modern audience, connecting theory to empirical evidence and expanding beyond the traditional focus on advanced countries to cover emerging markets and developing economies. International Macroeconomics is a split volume from the text, covering:

- The gains from financial globalization (Chapter 6)
- Fixed versus floating regimes (Chapter 8)
- Exchange-rate crises (Chapter 9)
- The Euro (Chapter 10)

As well as core topics:

- Foreign exchange markets and exchange rates in the short run and the long run (Chapters 2–4)
- The national and international accounts (Chapter 5)
- The open economy IS-LM model (Chapter 7)
- Applied topics of current interest (Chapter 11)

The Study Guide reinforces the topics and key concepts covered in the Microeconomics text.

The number one textbook for intermediate macroeconomics courses since its first edition, this title is known for conveying the cutting edge in macroeconomics theory, research, and policy to the classroom, explaining complex concepts with exceptional clarity. This new edition is no exception, with Greg Mankiw streamlining his hallmark approach and adding powerful new digital learning options while improving the book's already exemplary focus on teaching students to apply the analytical tools of macroeconomics to current events and policies. This comprehensive text is the ideal accompaniment to undergraduate courses in Macroeconomics.

After the transition to free economy, governments of the former Soviet republics realized that in spite of becoming a part of the shaky international economic order, their individual economic success can be assured by rational national economic policies that in addition to the fundamental law of supply and demand govern the economic mechanism sensitive to both external and internal phenomena. Originally published in Russian and now translated in English, this book by Dr. A. Ashimov and his colleagues offers a novel theory providing a numerically-justifiable approach to the solution of major economy control problems that are faced by virtually every government in the world. First, they developed and validated numerous mathematical models describing complex interactions between economic and social factors thus enabling the decision makers to foresee the outcomes of their decisions.

Second, on the basis of these models the authors formulated the appropriate control problems that could be interpreted as achieving the transition to the desirable economic regimes and maintaining these regimes in spite of initial conditions and both external and internal perturbations. It should be noted that due to the inherent uncertainty introduced by the use of statistical models, the nonlinearity of the underlying phenomena and the intention to obtain the optimal solutions, the solution process becomes quite intricate and calls for the application of the most sophisticated techniques offered in advanced control theory. The authors utilized the most instrumental statistical model validation techniques; they established sufficient conditions for the existence of optimal solutions of the relevant control problems; and they skillfully combined the applications of the phase space formalism, system stability analysis, and the methods of functional analysis. Finally, they developed algorithms resulting in the optimal problem solutions, thus offering economic policy makers a dependable decision support tool. *Macroeconomic Analysis and Economic Policy Based on Parametric Control* offers a novel, highly mathematical approach to the solution of very realistic economy control problems. It presents a good example of the application of mathematical modeling, advanced control theory, and model-based decision making that could be adopted by researchers and graduate students specializing in economics, control, and relevant areas of research, addressing their own research problems.

The world has many pressing problems. Thanks to the efforts of governments, NGOs, and individual activists there is no shortage of ideas for resolving them. However, even if all governments were willing to spend more money on solving the problems, we cannot do it all at once. We have to prioritize; and in order to do this we need a better sense of the costs and benefits of each 'solution'. This book offers a rigorous overview of twenty-three of the world's biggest problems relating to the environment, governance, economics, and health and population. Leading economists provide a short survey of the analysis and sketch out policy solutions for which they provide cost-benefit ratios. A unique feature is the provision of freely downloadable software which allows readers to make their own cost-benefit calculations for spending money to make the world a better place.

A textbook that approaches modern macroeconomics through its microeconomic foundations, with an emphasis on financial market connections and policy applications. The modern study and analysis of macroeconomics begins by considering how microeconomic units—consumers and firms—make decisions, and then investigates how these choices interact to yield economy-wide outcomes. This innovative textbook takes this “modern” approach, teaching macroeconomics through its microeconomic foundations. It does so by adopting the representative agent paradigm. By modeling the representative consumer and the representative firm, students will learn to describe macroeconomic outcomes and consider the effects of macroeconomic policies. Unique in its coverage of monopolistic competition, financial markets, and the interaction of fiscal and monetary policy, *Modern Macroeconomics* is suitable for use in intermediate undergraduate, advanced undergraduate, and graduate level courses. The book first introduces the building blocks of macroeconomics, the heart of which is the representative consumer. It goes on to offer a brief history of macroeconomic thought, including supply-side economics, the Phillips curve, and the New Keynesian framework. It then covers two policy applications, monetary policy and the interaction of monetary and fiscal policy; optimal policy analysis for both the flexible price and the rigid price case; long-run steady states, treating the Solow growth framework and the neoclassical growth model; a search-and-matching framework for the analysis of unemployment; and the application of the tools of

modern macroeconomics to “open economy,” or international macroeconomics. End-of-chapter problem sets enable students to apply the concepts they have learned. A separate Solutions Manual will be available for students to purchase. Teaching materials, including complete solutions and slides, will be available to qualified instructors.

This pack combines a key text in macroeconomics with an invaluable accompanying manual. Consisting of the third edition of Foundations of Modern Macroeconomics and Foundations of Modern Macroeconomics: Exercise and Solutions Manual, it couples together complementary titles in a great value set. The study of macroeconomics can seem a daunting project. The field is complex and sometimes poorly defined and there are a variety of competing approaches. Foundations of Modern Macroeconomics is a guide book for the interested and ambitious student. Non-partisan in its approach, it deals with all the major topics, summarising the important approaches and providing the reader with a coherent angle on all aspects of macroeconomic thought. Each chapter deals with a separate area of macroeconomics, and each contains a summary section of key points and a further reading list. Using nothing more than undergraduate mathematical skills, it takes the student from basic IS-LM style macro models to the state of the art literature on Dynamic Stochastic General Equilibrium, explaining the mathematical tricks used where they are first introduced. Designed to complement the third edition of Foundations of Modern Macroeconomics, the Exercise and Solutions Manual enables students to further sharpen their skills in macroeconomic formulation and solution. It uses worked example models to enable self-study and to allow the reader to begin to build their own models. Both fully updated and substantially revised, these new editions include brand new problems and numerical examples alongside previously uncovered and highly topical subjects such as dynamic programming, competitive risk sharing equilibria and the New Keynesian DSGE approach.

For each chapter, the Study Guide provides an introduction, fill-in-the-blank chapter review, learning tips with graphical analysis, 4-5 comprehensive problems and exercises, 20 multiple-choice questions, and solutions to all fill-in-the-blank, problems, exercises, and quizzes found within the Study Guide.

?????This is a sequel to the book by Dr. A. Ashimov and his colleagues, Macroeconomic Analysis and Economic Policy Based on Parametric Control. The authors have expanded both the developed mathematical apparatus and the scope of problems and applications stemming from the practice of steering a national economy of a small country in the dynamic environment of the international economic order. The developed theoretical foundation is used in Chapter 1 to suggest a decision support system operating in the framework of state economic policy making. Chapter 2 presents various mathematical models built on the basis of the available statistical data and provides quality assessment of these models. Parametric control problems are being formulated on the basis of these models as problems of mathematical programming, and the obtained solutions are subjected to analyses and interpretations. This is demonstrated by the analysis of the effect of uncontrollable factors on the problem solutions. Chapter 3 is aimed at the modelling and analysis of cyclic phenomena in economics and their structural stability. Chapter 4 presents solutions of specific problems of national economy and analysis and interpretation of their solutions. In summary, the authors formulate comprehensive mathematical models of some critical mechanisms in micro economics previously known only on a qualitative level. They provide vigorous mathematical analysis of the models that justifies their applicability for the formulation of parametric control problems, and the existence of model-based solutions. The complexity of the resultant problems is addressed by the formulation of the appropriate algorithms. The described methodology leads to the development of computer-based decision support systems.?

For courses in Economics. An engaging, practice-oriented approach to understanding core economic principles Foundations of Macroeconomics , 8th Edition introduces readers to the economic principles they can use to navigate the financial decisions of their futures.

Each chapter concentrates on a manageable number of ideas, usually 3 to 4, with each reinforced several times throughout the text. This patient approach helps guide individuals through unfamiliar terrain and focus them on the most important concepts. The text does four core things to help readers grasp and apply economic principles: it motivates with compelling issues and questions, focuses on core ideas, offers concise points, and encourages learning with activities and practice questions. After completing this text, readers will have the foundational knowledge of how the economy works and can apply it to their lives going forward. Also available with MyLab Economics MyLab™ Economics is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts. Note: You are purchasing a standalone product; MyLab Economics does not come packaged with this content. Students, if interested in purchasing this title with MyLab Economics, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MyLab Economics, search for: 0134668669 / 9780134668666 Foundations of Macroeconomics Plus MyLab Economics with Pearson eText -- Access Card Package, 8/e Package consists of: 0134492005 / 9780134492001 Foundations of Macroeconomics 0134518373 / 9780134518374 MyLab Economics with Pearson eText -- Access Card -- for Foundations of Macroeconomics

The new European edition of Mankiw's bestselling and highly readable text communicates the theories and models of macroeconomics in a concise and accessible way, with real-world examples, discussions and case studies. The text is fully updated with extensive coverage of the global financial crisis and in particular its impact on European economies.

This book offers an opportunity for students to practise the art of problem-solving in economics on their own. It provides problems, hints, and full solutions.

The study of macroeconomics can seem a daunting project. The field is complex and sometimes poorly defined and there are a variety of competing approaches. Designed to complement the third edition of Foundations of Modern Macroeconomics, this manual enables students to further sharpen their skills in macroeconomic formulation and solution. Fully revised and updated, and including brand new problems and numerical examples, the new edition of Foundations of Modern Macroeconomics: Exercise and Solutions Manual uses worked example models to enable self-study and to allow the reader to begin to build their own models. It uses a range of problems with varying degrees of difficulty and provides solutions.

For Principles of Macroeconomics courses A practice-oriented learning system that breaks the traditional textbook mold To help students focus on the most important concepts—and effectively practice application of those concepts—Foundations of Macroeconomics is structured around a Checklist/Checkpoint system. The result is a patient, confidence-building program that prepares students to use economics in their everyday lives, regardless of what their future career will be. This program provides a better teaching and learning experience—for you and your students. It will help you to:

- Personalize learning with MyEconLab: This online homework, tutorial, and assessment program engages

students in learning and provides instructors tools to keep students on track. • Encourage students to learn by doing: A Checklist/Checkpoint system provides a practice-oriented framework that enables active learning. • Command student attention and foster interest in the course: Engaging features draw students into the material, and keep them focused throughout the course. • Provide engaging, fully updated content: New and updated material on contemporary topics better motivates students to discover the economic way of thinking. Please note that the product you are purchasing does not include MyEconLab. MyEconLab Join over 11 million students benefiting from Pearson MyLabs. This title can be supported by MyEconLab, an online homework and tutorial system designed to test and build your understanding. Would you like to use the power of MyEconLab to accelerate your learning? You need both an access card and a course ID to access MyEconLab. These are the steps you need to take: 1. Make sure that your lecturer is already using the system Ask your lecturer before purchasing a MyLab product as you will need a course ID from them before you can gain access to the system. 2. Check whether an access card has been included with the book at a reduced cost If it has, it will be on the inside back cover of the book. 3. If you have a course ID but no access code, you can benefit from MyEconLab at a reduced price by purchasing a pack containing a copy of the book and an access code for MyEconLab (ISBN:9781292019284) 4. If your lecturer is using the MyLab and you would like to purchase the product... Go to [www.myeconlab.com](http://www.myeconlab.com) to buy access to this interactive study programme. For educator access, contact your Pearson representative. To find out who your Pearson representative is, visit [www.pearsoned.co.uk/relocator](http://www.pearsoned.co.uk/relocator)

The fifth edition of Romer's Advanced Macroeconomics continues its tradition as the standard text and the starting point for graduate macroeconomics courses and helps lay the groundwork for students to begin doing research in macroeconomics and monetary economics. Romer presents the major theories concerning the central questions of macroeconomics. The theoretical analysis is supplemented by examples of relevant empirical work, illustrating the ways that theories can be applied and tested. In areas ranging from economic growth and short-run fluctuations to the natural rate of unemployment and monetary policy, formal models are used to present and analyze key ideas and issues. The book has been extensively revised to incorporate important new topics and new research, eliminate inessential material, and further improve the presentation.

1. Price Elasticity of Demand, 2 Production Function : Returns to a Factor and Returns to Scale, 3. Production Costs, 4. Concepts of Revenue, 5. Producer's Equilibrium : Meaning and Conditions, 6. Elasticity of Supply, 7. Concepts and Aggregates Related to National Income, 8. Measurement of National Income, 9. Aggregate Demand, Aggregate Supply and Related Concepts, 10. Investment Multiplier and Its Mechanism.

This book is a further development of the theory of parametric control. It includes: numerical methods of testing

(verification) of software implementation of mathematical models by assessing the stability of mappings defined by the model; sufficient conditions for the existence of the solutions of some types of problems of dynamic optimization; the existence of continuous dependence of optimal values of criteria on exogenous functions and parameters; and the existence of points of bifurcation of extremals of such problems. It demonstrates that this theory offers a constructive methodology for middle-term forecasting, macroeconomic analysis and estimation of optimal values of economic characteristics on the basis of advanced global mathematical models, namely Computable General Equilibrium (CGE) Model, Dynamic Stochastic General Equilibrium (DSGE) Model, and Hybrid Econometric model. In addition, it includes conditions for the applicability of the computational experiments' results, into practice.

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