Mathematical Methods and Models for Economists
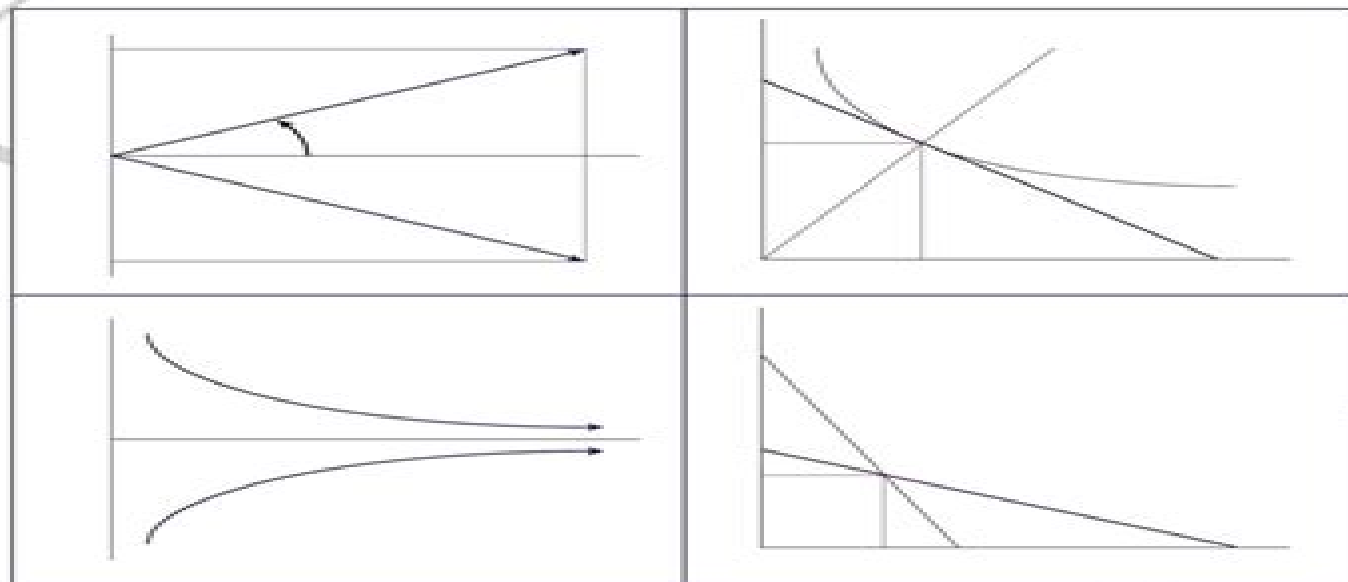
Angel de la Fuente

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Lars Protze

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Mathematical Methods and Models for Economists Angel de la Fuente,Ángel de la Fuente,2000-01-28 A textbook for a first year PhD course in mathematics for economists and a reference for graduate students in economics

Mathematical Methods and Models for Economists Angel De la Fuente,2014-05-27 A textbook for a first year PhD course in mathematics for economists and a reference for graduate students in economics **Mathematical Methods and Models for Economists** Angel de La Fuente,2000 A textbook for a first year PhD course in mathematics for economists and a reference for graduate students in economics Mathematical Methods and Models for Economists Angel de la Fuente,2000-01-28 This book is intended as a textbook for a first year PhD course in mathematics for economists and as a reference for graduate students in economics It provides a self contained rigorous treatment of most of the concepts and techniques required to follow the standard first year theory sequence in micro and macroeconomics The topics covered include an introduction to analysis in metric spaces differential calculus comparative statics convexity static optimization dynamical systems and dynamic optimization The book includes a large number of applications to standard economic models and over two hundred fully worked out problems Financial Economics, Risk and Information Marcelo Bianconi,2011-08-23 Financial Economics Risk and Information presents the fundamentals of finance in static and dynamic frameworks with focus on risk and information The objective of this book is to introduce undergraduate and first year graduate students to the methods and solutions of the main problems in finance theory relating to the economics of uncertainty and information The main goal of the second edition is to make the materials more accessible to a wider audience of students and finance professionals The focus is on developing a core body of theory that will provide the student with a solid intellectual foundation for more advanced topics and methods The new edition has streamlined chapters and topics with new sections on portfolio choice under alternative information structures The starting point is the traditional mean variance approach followed by portfolio choice from first principles The topics are extended to alternative market structures alternative contractual arrangements and agency dynamic stochastic general equilibrium in discrete and continuous time attitudes towards risk and towards inter temporal substitution in discrete and continuous time and option pricing In general the book presents a balanced introduction to the use of stochastic methods in discrete and continuous time in the field of financial economics **Contemporary Methods and Austrian Economics** Daniel J. D'Amico,Adam G. Martin,2022-01-27 Contemporary Methods and Austrian Economics examines the relationship between Austrian economics and these new social scientific methods *Where the Party Rules* Daniel Koss,2018-04-05 In most non democratic countries today governing forty four percent of the world population the power of the regime rests upon a ruling party Contrasting with conventional notions that authoritarian regime parties serve to contain elite conflict and manipulate electoral legislative processes this book presents the case of China and shows that rank and file members of the Communist Party allow the state to penetrate local

communities Subnational comparative analysis demonstrates that in red areas with high party saturation the state is most effectively enforcing policy and collecting taxes Because party membership patterns are extremely enduring they must be explained by events prior to the Communist takeover in 1949 Frontlines during the anti colonial Sino Japanese War 1937 1945 continue to shape China s political map even today Newly available evidence from the Great Leap Forward 1958 1961 and the Cultural Revolution 1966 1976 shows how a strong local party basis sustained the regime in times of existential crisis

Macroeconomic Theory Jean-Pascal Benassy,2011-05-12 This graduate textbook is a primer in macroeconomics It starts with essential undergraduate macroeconomics and develops in a simple and rigorous manner the central topics of modern macroeconomic theory including rational expectations growth business cycles money unemployment government policy and the macroeconomics of nonclearing markets The emphasis throughout the book is on both foundations and presenting the simplest model for each topic that will deliver the relevant answers The first two chapters recall the main workhorses of undergraduate macroeconomics the Solow Swan growth model the Keynesian IS LM model and the Phillips curve The next chapters present four fundamental building blocks of modern macroeconomics rational expectations intertemporal dynamic models nonclearing markets and imperfect competition and uncertainty Later the book deals with growth notably the Ramsey model overlapping generations and endogenous growth Chapter 10 moves to the famous real business cycles RBC which integrate in a unified framework growth and fluctuations The final chapters look at the issue of stabilization how best to guard the economy from shocks and the connections between politics and the macroeconomy To make the book self contained a mathematical appendix gives a number of simple technical results that are sufficient to follow the formal developments of the book   *R Programming for Actuarial Science* Peter McQuire,Alfred Kume,2023-10-26 R Programming for Actuarial Science Professional resource providing an introduction to R coding for actuarial and financial mathematics applications with real life examples R Programming for Actuarial Science provides a grounding in R programming applied to the mathematical and statistical methods that are of relevance for actuarial work In R Programming for Actuarial Science readers will find Basic theory for each chapter to complement other actuarial textbooks which provide foundational theory in depth Topics covered include compound interest statistical inference asset liability matching time series loss distributions contingencies mortality models and option pricing plus many more typically covered in university courses More than 400 coding examples and exercises most with solutions to enable students to gain a better understanding of underlying mathematical and statistical principles An overall basic to intermediate level of coverage in respect of numerous actuarial applications and real life examples included with every topic Providing a highly useful combination of practical discussion and basic theory R Programming for Actuarial Science is an essential reference for BSc MSc students in actuarial science trainee actuaries studying privately and qualified actuaries with little programming experience along with undergraduate students studying finance business and economics   Problems Book to accompany Mathematics for Economists Tamara

Todorova,2010-05-10 In highly mathematical courses it is a truism that students learn by doing not by reading Tamara Todorova s Problems Book to Accompany Mathematics for Economists provides a life line for students seeking an extra leg up in challenging courses Beginning with college level mathematics this comprehensive workbook presents an extensive number of economics focused problem sets with clear and detailed solutions for each one By keeping the focus on economic applications Todorova provides economics students with the mathematical tools they need for academic success For years Professor Todorova has taught microeconomic courses to economists and non economists introduced students to new institutional economics as a modern trend in economics and taught quantitative methods and their application to economic theory marketing and advertising **The Macroeconomic Theory of Exchange Rate Crises** Giovanni Piersanti,2012-04-26 An overview of the causes and consequences of speculative attacks on domestic currency and international financial turmoil It provides a comprehensive treatment of the existing theories of exchange rate crises and of financial market runs Zero Lower Bound and Monetary Policy in the Euro Area Lars Protze,2008-08 Central banks around the world try to influence economic activity by altering nominal interest rates which will have an effect on the real rate However this is only possible as long as interest rates are above zero The case of Japan showed that monetary policy was helpless as nominal rates approached zero This Book starts with an overview of monetary policy with the restriction that interest rates can not fall below zero Then optimal monetary policy in a low inflation environment is treated This is done by using a New Keynesian model with sticky prices Therefore the model and the necessary optimality conditions will be derived this will be done extensively in the appendix After deriving the optimality conditions it will be shown how optimal monetary policy will be conducted To evaluate the outcome of monetary policy a welfare function will be derived It will be shown how the welfare function to evaluate the outcome of monetary policy is derived from the utility function of the household As a result it will be shown that a price level target is welfare maximizing although most central banks nowadays use an inflation target instead Reasons for an inflation target will be shown in the discussion of the model The second part of the book describes the inflation dynamics in the euro area to see what monetary authority shall do to prevent the economy from falling into the vicious circle of deflation Two wage contracting models that describe inflation dynamics in the euro area reasonably well will be explained the Fuhrer Moore und the Taylor contracting After showing the optimal policy it will be discussed how severe the zero bound in the euro area is and what policy alternatives are left when monetary policy is restricted Finally the results obtained will be discussed to see the pitfalls of price level targeting The large appendix provides the complete derivation of the model and the optimality conditions *Zero Lower Bound - Is it a problem in the Euro Area?* Lars Protze,2008-04-17 Inhaltsangabe Abstract The case of Japan showed that the zero bound is a problem for the conduct of monetary policy that even nowadays has to be considered For several years Japan experienced deflation and a short rate very close to zero leaving monetary policy almost helpless to boost economic activity The same fears came up in America and

Europe as economic performance deteriorated and nominal interest rates were lowered rapidly to stimulate the economy However lowering the interest rate to stimulate the economy is only possible when interest rates are above zero In this paper it shall be explored how optimal monetary policy is conducted with the constraint that interest rates cannot fall below zero and how large the risk to hit the bound is in the euro area The first part is done in a New Keynesian model with sticky prices but flexible wages the second in an estimated model of the euro area The outline of the paper is as follows In the next chapter an overview of the work on the zero bound and monetary policy is presented Thereafter the New Keynesian model as it was presented by Eggertson and Woodford will be used to determine optimal policy It will be shown that quantitative easing as it was done by the Bank of Japan is not an appropriate tool in the model surrounding to escape a deflation spiral and what should be done instead It will be shown that credible commitment is able to overcome most of the distortions induced by the zero bound The central bank should commit itself to a target for the price level instead of a target for the rate of inflation The optimal solution involves credible commitment to cause subsequent inflation when deflation vanishes This management of expectation will help to escape a deflation spiral faster and causes lower welfare losses After treating the phenomenon in a model surrounding it shall be explored what the chances are to slide into that vicious circle if monetary policy follows a Taylor rule and how likely the zero bound is under different wage contracting specifications This will be done in a small estimated euro area economy model It shall also be considered how the announcement of a positive inflation target well above zero may help to avoid the zero bound This was done by the European Central Bank that changed its target from an inflation rate between zero and two to a rate below but close to two percent Finally the results will be discussed focussing on the assumptions   The Best Books for Academic Libraries: Social sciences ,2002 Books recommended for undergraduate and college libraries listed by Library of Congress Classification Numbers   **Journal of Economic Literature** ,2000   Mathematical Reviews ,2001   Southern Economic Journal ,2002   **Book Review Index** ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index   ‬‬‬‬ ‬‬‬‬‬‬ ‬‬‬‬‬‬‬‬ ‬‬‬‬‬‬ ‬‬‬‬‬ ،‬‬‬‬‬‬‬‬ ‬‬‬‬‬ ‬‬‬‬‬‬‬ 01-01-2014,‬‬‬‬‬‬ Descriptor s ECONOMETRICS ECONOMETRIC ANALYSIS MATHEMATICAL ANALYSIS QUANTITATIVE ANALYSIS LINEAR PROGRAMMING   ‬‬‬‬ ‬‬‬‬‬‬‬ ‬‬‬‬‬‬‬ ‬‬‬ ‬‬‬‬‬‬‬‬ ‬‬‬‬‬‬ ‬‬‬‬‬ ،‬‬‬‬‬‬‬‬ ‬‬‬‬‬ ‬‬‬‬‬‬‬ 01-01-2014,‬‬‬‬‬‬ Descriptor s ECONOMETRICS QUANTITATIVE ANALYSIS ECONOMIC INTEGRATION CALCULUS NONLINEAR DIFFERENTIAL EQUATIONS LINEAR EQUATIONS ECONOMIC ASPECTS

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