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North-Holland

Stochastic Methods In Economics And Finance

Mario J. Miranda, Paul L. Fackler



Stochastic Methods In Economics And Finance:

Stochastic Methods in Economics and Finance A.G. Malliaris, 1982 Theory and application of a variety of mathematical techniques in economics are presented in this volume Topics discussed include martingale methods stochastic processes optimal stopping the modeling of uncertainty using a Wiener process It s Lemma as a tool of stochastic calculus and basic facts about stochastic differential equations The notion of stochastic ability and the methods of stochastic control are discussed and their use in economic theory and finance is illustrated with numerous applications The applications covered include futures pricing job search stochastic capital theory stochastic economic growth the rational expectations hypothesis a stochastic macroeconomic model competitive firm under price uncertainty the Black Scholes option pricing theory optimum consumption and portfolio rules demand for index bonds term structure of interest rates the market risk adjustment in project valuation demand for cash balances and an asset pricing model **Stochastic Methods in**

Economics and Finance C.J. Bliss, 1984 **Agent-Based Methods in Economics and Finance** Francesco Luna, Alessandro Perrone, 2012-12-06 This second book on financial and economic simulations in Swarm marks the continued progress by a group of researchers to incorporate agent based computer models as an important tool within their discipline It is encouraging to see such a clear example of Swarm helping to foster a community of users who rely on the Swarm framework for their own analyses Swarm aims at legitimizing agent based computer models as a tool for the study of complex systems A further goal is that a common base framework will lead to the growth of user communities in specific areas of application By providing an organizing framework to guide the development of more problem specific structures and by dealing with a whole range of issues that affect their fundamental correctness and their ability to be developed and reused Swarm has sought to make the use of agent based models a legitimate tool of scientific investigation that also meets the practical needs of investigators within a community **Mathematical Modeling in Economics and Finance: Probability, Stochastic**

Processes, and Differential Equations Steven R. Dunbar, 2019-04-03 Mathematical Modeling in Economics and Finance is designed as a textbook for an upper division course on modeling in the economic sciences The emphasis throughout is on the modeling process including post modeling analysis and criticism It is a textbook on modeling that happens to focus on financial instruments for the management of economic risk The book combines a study of mathematical modeling with exposure to the tools of probability theory difference and differential equations numerical simulation data analysis and mathematical analysis Students taking a course from Mathematical Modeling in Economics and Finance will come to understand some basic stochastic processes and the solutions to stochastic differential equations They will understand how to use those tools to model the management of financial risk They will gain a deep appreciation for the modeling process and learn methods of testing and evaluation driven by data The reader of this book will be successfully positioned for an entry level position in the financial services industry or for beginning graduate study in finance economics or actuarial science The

exposition in Mathematical Modeling in Economics and Finance is crystal clear and very student friendly The many exercises are extremely well designed Steven Dunbar is Professor Emeritus of Mathematics at the University of Nebraska and he has won both university wide and MAA prizes for extraordinary teaching Dunbar served as Director of the MAA s American Mathematics Competitions from 2004 until 2015 His ability to communicate mathematics is on full display in this approachable innovative text **Stochastic Modeling in Economics and Finance** Jitka Dupacova,J. Hurt,J.

Stepan,2005-12-30 In Part I the fundamentals of financial thinking and elementary mathematical methods of finance are presented The method of presentation is simple enough to bridge the elements of financial arithmetic and complex models of financial math developed in the later parts It covers characteristics of cash flows yield curves and valuation of securities Part II is devoted to the allocation of funds and risk management classics Markowitz theory of portfolio capital asset pricing model arbitrage pricing theory asset liability management value at risk The method explanation takes into account the computational aspects Part III explains modeling aspects of multistage stochastic programming on a relatively accessible level It includes a survey of existing software links to parametric multiobjective and dynamic programming and to probability and statistics It focuses on scenario based problems with the problems of scenario generation and output analysis discussed in detail and illustrated within a case study *Risk and Financial Management* Charles S. Tapiero,2004-07-16 Financial risk management has become a popular practice amongst financial institutions to protect against the adverse effects of uncertainty caused by fluctuations in interest rates exchange rates commodity prices and equity prices New financial instruments and mathematical techniques are continuously developed and introduced in financial practice These techniques are being used by an increasing number of firms traders and financial risk managers across various industries Risk and Financial Management Mathematical and Computational Methods confronts the many issues and controversies and explains the fundamental concepts that underpin financial risk management Provides a comprehensive introduction to the core topics of risk and financial management Adopts a pragmatic approach focused on computational rather than just theoretical methods Bridges the gap between theory and practice in financial risk management Includes coverage of utility theory probability options and derivatives stochastic volatility and value at risk Suitable for students of risk mathematical finance and financial risk management and finance practitioners Includes extensive reference lists applications and suggestions for further reading Risk and Financial Management Mathematical and Computational Methods is ideally suited to both students of mathematical finance with little background in economics and finance and students of financial risk management as well as finance practitioners requiring a clearer understanding of the mathematical and computational methods they use every day It combines the required level of rigor to support the theoretical developments with a practical flavour through many examples and applications **Applied Computational Economics and Finance** Mario J. Miranda,Paul L.

Fackler,2004-08-20 This book presents a variety of computational methods used to solve dynamic problems in economics and

finance It emphasizes practical numerical methods rather than mathematical proofs and focuses on techniques that apply directly to economic analyses The examples are drawn from a wide range of subspecialties of economics and finance with particular emphasis on problems in agricultural and resource economics macroeconomics and finance The book also provides an extensive Web site library of computer utilities and demonstration programs The book is divided into two parts The first part develops basic numerical methods including linear and nonlinear equation methods complementarity methods finite dimensional optimization numerical integration and differentiation and function approximation The second part presents methods for solving dynamic stochastic models in economics and finance including dynamic programming rational expectations and arbitrage pricing models in discrete and continuous time The book uses MATLAB to illustrate the algorithms and includes a utilities toolbox to help readers develop their own computational economics applications

Financial Derivatives Rob Quail,James A. Overdahl,2009-11-02 Essential insights on the various aspects of financial derivatives If you want to understand derivatives without getting bogged down by the mathematics surrounding their pricing and valuation Financial Derivatives is the book for you Through in depth insights gleaned from years of financial experience Robert Kolb and James Overdahl clearly explain what derivatives are and how you can prudently use them within the context of your underlying business activities Financial Derivatives introduces you to the wide range of markets for financial derivatives This invaluable guide offers a broad overview of the different types of derivatives futures options swaps and structured products while focusing on the principles that determine market prices This comprehensive resource also provides a thorough introduction to financial derivatives and their importance to risk management in a corporate setting Filled with helpful tables and charts Financial Derivatives offers a wealth of knowledge on futures options swaps financial engineering and structured products Discusses what derivatives are and how you can prudently implement them within the context of your underlying business activities Provides thorough coverage of financial derivatives and their role in risk management Explores financial derivatives without getting bogged down by the mathematics surrounding their pricing and valuation This informative guide will help you unlock the incredible potential of financial derivatives **Applied Stochastic**

Models and Control for Finance and Insurance Charles S. Tapiero,2012-12-06 Applied Stochastic Models and Control for Finance and Insurance presents at an introductory level some essential stochastic models applied in economics finance and insurance Markov chains random walks stochastic differential equations and other stochastic processes are used throughout the book and systematically applied to economic and financial applications In addition a dynamic programming framework is used to deal with some basic optimization problems The book begins by introducing problems of economics finance and insurance which involve time uncertainty and risk A number of cases are treated in detail spanning risk management volatility memory the time structure of preferences interest rates and yields etc The second and third chapters provide an introduction to stochastic models and their application Stochastic differential equations and stochastic calculus are

presented in an intuitive manner and numerous applications and exercises are used to facilitate their understanding and their use in Chapter 3 A number of other processes which are increasingly used in finance and insurance are introduced in Chapter 4 In the fifth chapter ARCH and GARCH models are presented and their application to modeling volatility is emphasized An outline of decision making procedures is presented in Chapter 6 Furthermore we also introduce the essentials of stochastic dynamic programming and control and provide first steps for the student who seeks to apply these techniques Finally in Chapter 7 numerical techniques and approximations to stochastic processes are examined This book can be used in business economics financial engineering and decision sciences schools for second year Master s students as well as in a number of courses widely given in departments of statistics systems and decision sciences

Security Analysis, Portfolio Management, And Financial Derivatives Cheng Few Lee, Joseph Finnerty, John C Lee, Alice C Lee, Donald Wort, 2012-10-01

Security Analysis Portfolio Management and Financial Derivatives integrates the many topics of modern investment analysis It provides a balanced presentation of theories institutions markets academic research and practical applications and presents both basic concepts and advanced principles Topic coverage is especially broad in analyzing securities the authors look at stocks and bonds options futures foreign exchange and international securities The discussion of financial derivatives includes detailed analyses of options futures option pricing models and hedging strategies A unique chapter on market indices teaches students the basics of index information calculation and usage and illustrates the important roles that these indices play in model formation performance evaluation investment strategy and hedging techniques Complete sections on program trading portfolio insurance duration and bond immunization performance measurements and the timing of stock selection provide real world applications of investment theory In addition special topics including equity risk premia simultaneous equation approach for security valuation and It s calculus are also included for advanced students and researchers

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