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New Trends in Random Evolutions and their Applications

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Random Evolutions And Their Applications New Trends

A.H. Gnauck, M. Straškraba



Random Evolutions And Their Applications New Trends:

Inhomogeneous Random Evolutions and Their Applications Anatoliy Swishchuk, 2019-12-11 Inhomogeneous Random Evolutions and Their Applications explains how to model various dynamical systems in finance and insurance with non homogeneous in time characteristics It includes modeling for financial underlying and derivatives via Levy processes with time dependent characteristics limit order books in the algorithmic and HFT with counting price changes processes having time dependent intensities risk processes which count number of claims with time dependent conditional intensities multi asset price impact from distressed selling regime switching Levy driven diffusion based price dynamics Initial models for those systems are very complicated which is why the author's approach helps to simplify their study The book uses a very general approach for modeling of those systems via abstract inhomogeneous random evolutions in Banach spaces To simplify their investigation it applies the first averaging principle long run stability property or law of large numbers LLN to get deterministic function on the long run To eliminate the rate of convergence in the LLN it uses secondly the functional central limit theorem FCLT such that the associated cumulative process centered around that deterministic function and suitably scaled in time may be approximated by an orthogonal martingale measure in general and by standard Brownian motion in particular if the scale parameter increases Thus this approach allows the author to easily link for example microscopic activities with macroscopic ones in HFT connecting the parameters driving the HFT with the daily volatilities This method also helps to easily calculate ruin and ultimate ruin probabilities for the risk process All results in the book are new and original and can be easily implemented in practice *Random Evolutions and their Applications* Anatoly Swishchuk, 2000-05-31 This book is devoted to new trends in random evolution and their applications to the stochastic evolutionary system It contains new developments such as an analogue of Dynkin's formula boundary value problems stability and control of random evolutions stochastic evolutionary equations and driven martingale measures In addition it treats statistics of random evolutions processes statistics of financial stochastic models and stochastic stability and control of financial markets Audience This volume will be of interest to research and applied mathematicians working in the fields of applied probability stochastic processes and random evolutions as well as experts in statistics finance and insurance

Discrete-Time Semi-Markov Random Evolutions and Their Applications Nikolaos Limnios, Anatoliy Swishchuk, 2023-07-24 This book extends the theory and applications of random evolutions to semi Markov random media in discrete time essentially focusing on semi Markov chains as switching or driving processes After giving the definitions of discrete time semi Markov chains and random evolutions it presents the asymptotic theory in a functional setting including weak convergence results in the series scheme and their extensions in some additional directions including reduced random media controlled processes and optimal stopping Finally applications of discrete time semi Markov random evolutions in epidemiology and financial mathematics are discussed This book will be of interest to researchers and graduate students in

applied mathematics and statistics and other disciplines including engineering epidemiology finance and economics who are concerned with stochastic models of systems

Random Dynamical Systems in Finance Anatoliy Swishchuk, Shafiqul Islam, 2016-04-19 The theory and applications of random dynamical systems RDS are at the cutting edge of research in mathematics and economics particularly in modeling the long run evolution of economic systems subject to exogenous random shocks Despite this interest there are no books available that solely focus on RDS in finance and economics Exploring this emerging area Random Dynamical Systems in Finance shows how to model RDS in financial applications Through numerous examples the book explains how the theory of RDS can describe the asymptotic and qualitative behavior of systems of random and stochastic differential difference equations in terms of stability invariant manifolds and attractors The authors present many models of RDS and develop techniques for implementing RDS as approximations to financial models and option pricing formulas For example they approximate geometric Markov renewal processes in ergodic merged double averaged diffusion normal deviation and Poisson cases and apply the obtained results to option pricing formulas With references at the end of each chapter this book provides a variety of RDS for approximating financial models presents numerous option pricing formulas for these models and studies the stability and optimal control of RDS The book is useful for researchers academics and graduate students in RDS and mathematical finance as well as practitioners working in the financial industry

Random Evolutions and Their Applications Anatoly Swishchuk, 2014-01-15

Econometrics of Qualitative Dependent Variables Christian Gourieroux, 2000-10-16 This text introduces students progressively to various aspects of qualitative models and assumes a knowledge of basic principles of statistics and econometrics After the introduction Chapters 2 through 6 present models with endogenous qualitative variables examining dichotomous models model specification estimation methods descriptive usage and qualitative panel data The final two chapters describe models that explain variables assumed by discrete or continuous positive variables

Encyclopedia of Financial Models, Volume III Frank J. Fabozzi, 2012-09-20 Volume 3 of the Encyclopedia of Financial Models The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various models currently available Incorporating timely research and in depth analysis Volume 3 of the Encyclopedia of Financial Models covers both established and cutting edge models and discusses their real world applications Edited by Frank Fabozzi this volume includes contributions from global financial experts as well as academics with extensive consulting experience in this field Organized alphabetically by category this reliable resource consists of forty four informative entries and provides readers with a balanced understanding of today's dynamic world of financial modeling Volume 3 covers Mortgage Backed Securities Analysis and Valuation Operational Risk Optimization Tools Probability Theory Risk Measures Software for Financial

Modeling Stochastic Processes and Tools Term Structure Modeling Trading Cost Models and Volatility Emphasizes both technical and implementation issues providing researchers educators students and practitioners with the necessary background to deal with issues related to financial modeling The 3 Volume Set contains coverage of the fundamentals and advances in financial modeling and provides the mathematical and statistical techniques needed to develop and test financial models Financial models have become increasingly commonplace as well as complex They are essential in a wide range of financial endeavors and the Encyclopedia of Financial Models will help put them in perspective

Hidden Markov Models in Finance Rogemar S. Mamon, Robert J Elliott, 2007-04-26 A number of methodologies have been employed to provide decision making solutions to a whole assortment of financial problems in today's globalized markets Hidden Markov Models in Finance by Mamon and Elliott will be the first systematic application of these methods to some special kinds of financial problems namely pricing options and variance swaps valuation of life insurance policies interest rate theory credit risk modeling risk management analysis of future demand and inventory level testing foreign exchange rate hypothesis and early warning systems for currency crises This book provides researchers and practitioners with analyses that allow them to sort through the random noise of financial markets i.e. turbulence volatility emotion chaotic events etc and analyze the fundamental components of economic markets Hence Hidden Markov Models in Finance provides decision makers with a clear accurate picture of core financial components by filtering out the random noise in financial markets

Modeling and Inverse Problems in the Presence of Uncertainty H. T. Banks, Shuhua Hu, W. Clayton Thompson, 2014-04-01 Modeling and Inverse Problems in the Presence of Uncertainty collects recent research including the authors own substantial projects on uncertainty propagation and quantification It covers two sources of uncertainty where uncertainty is present primarily due to measurement errors and where uncertainty is present due to the modeling formulation itself After a useful review of relevant probability and statistical concepts the book summarizes mathematical and statistical aspects of inverse problem methodology including ordinary weighted and generalized least squares formulations It then discusses asymptotic theories bootstrapping and issues related to the evaluation of correctness of assumed form of statistical models The authors go on to present methods for evaluating and comparing the validity of appropriateness of a collection of models for describing a given data set including statistically based model selection and comparison techniques They also explore recent results on the estimation of probability distributions when they are embedded in complex mathematical models and only aggregate not individual data are available In addition they briefly discuss the optimal design of experiments in support of inverse problems for given models The book concludes with a focus on uncertainty in model formulation itself covering the general relationship of differential equations driven by white noise and the ones driven by colored noise in terms of their resulting probability density functions It also deals with questions related to the appropriateness of discrete versus continuum models in transitions from small to large numbers of individuals With many examples throughout addressing problems in physics

biology and other areas this book is intended for applied mathematicians interested in deterministic and or stochastic models and their interactions It is also suitable for scientists in biology medicine engineering and physics working on basic modeling and inverse problems uncertainty in modeling propagation of uncertainty and statistical modeling

Modeling And Pricing Of Swaps For Financial And Energy Markets With Stochastic Volatilities Anatoliy Swishchuk,2013-06-03

Modeling and Pricing of Swaps for Financial and Energy Markets with Stochastic Volatilities is devoted to the modeling and pricing of various kinds of swaps such as those for variance volatility covariance correlation for financial and energy markets with different stochastic volatilities which include CIR process regime switching delayed mean reverting multi factor fractional Levy based semi Markov and COGARCH 1 1 One of the main methods used in this book is change of time method The book outlines how the change of time method works for different kinds of models and problems arising in financial and energy markets and the associated problems in modeling and pricing of a variety of swaps The book also contains a study of a new model the delayed Heston model which improves the volatility surface fitting as compared with the classical Heston model The author calculates variance and volatility swaps for this model and provides hedging techniques The book considers content on the pricing of variance and volatility swaps and option pricing formula for mean reverting models in energy markets Some topics such as forward and futures in energy markets priced by multi factor Levy models and generalization of Black 76 formula with Markov modulated volatility are part of the book as well and it includes many numerical examples such as S P60 Canada Index S P500 Index and AECO Natural Gas Index

Change of Time Methods in Quantitative Finance Anatoliy Swishchuk,2016-05-31 This book is devoted to the history of Change of Time Methods CTM the connections of CTM to stochastic volatilities and finance fundamental aspects of the theory of CTM basic concepts and its properties An emphasis is given on many applications of CTM in financial and energy markets and the presented numerical examples are based on real data The change of time method is applied to derive the well known Black Scholes formula for European call options and to derive an explicit option pricing formula for a European call option for a mean reverting model for commodity prices Explicit formulas are also derived for variance and volatility swaps for financial markets with a stochastic volatility following a classical and delayed Heston model The CTM is applied to price financial and energy derivatives for one factor and multi factor alpha stable Levy based models Readers should have a basic knowledge of probability and statistics and some familiarity with stochastic processes such as Brownian motion Levy process and martingale

Encyclopedia of Financial Models Frank J. Fabozzi,2012-10-15 An essential reference dedicated to a wide array of financial models issues in financial modeling and mathematical and statistical tools for financial modeling The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models 3 Volume Set has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and

make use of the various models currently available Incorporating timely research and in depth analysis the Encyclopedia of Financial Models is an informative 3 Volume Set that covers both established and cutting edge models and discusses their real world applications Edited by Frank Fabozzi this set includes contributions from global financial experts as well as academics with extensive consulting experience in this field Organized alphabetically by category this reliable resource consists of three separate volumes and 127 entries touching on everything from asset pricing and bond valuation models to trading cost models and volatility and provides readers with a balanced understanding of today s dynamic world of financial modeling Frank Fabozzi follows up his successful Handbook of Finance with another major reference work The Encyclopedia of Financial Models Covers the two major topical areas asset valuation for cash and derivative instruments and portfolio modeling Fabozzi explores the critical background tools from mathematics probability theory statistics and operations research needed to understand these complex models Organized alphabetically by category this book gives readers easy and quick access to specific topics sorted by an applicable category among them Asset Allocation Credit Risk Modeling Statistical Tools 3 Volumes onlinelibrary wiley com Financial models have become increasingly commonplace as well as complex They are essential in a wide range of financial endeavors and this 3 Volume Set will help put them in perspective

Evolution Algebras and their Applications Jianjun Paul Tian,2007-12-24 The author explores evolution algebras which lie between algebras and dynamical systems Readers learn the foundations of evolution algebras theory and its applications in non Mendelian genetics and Markov chains They ll also discover evolution algebras connections with other mathematical fields including graph theory group theory stochastic processes dynamical systems knot theory 3 manifolds and the Ihara Selberg zeta function *Mathematical Reviews* ,2001

Strong and Weak Approximation of Semilinear Stochastic Evolution Equations Raphael Kruse,2013-11-18 In this book we analyze the error caused by numerical schemes for the approximation of semilinear stochastic evolution equations SEEq in a Hilbert space valued setting The numerical schemes considered combine Galerkin finite element methods with Euler type temporal approximations Starting from a precise analysis of the spatio temporal regularity of the mild solution to the SEEq we derive and prove optimal error estimates of the strong error of convergence in the first part of the book The second part deals with a new approach to the so called weak error of convergence which measures the distance between the law of the numerical solution and the law of the exact solution This approach is based on Bismut s integration by parts formula and the Malliavin calculus for infinite dimensional stochastic processes These techniques are developed and explained in a separate chapter before the weak convergence is proven for linear SEEq

Invasion Genetics Spencer C. H. Barrett,Robert I. Colautti,Katrina M. Dlugosch,Loren H. Rieseberg,2016-07-15 Invasion Genetics the Baker demographic genetics the role of stochastic forces in the invasion process the contemporary evolution of local adaptation the significance of epigenetics and transgenerational plasticity for invasive species the genomic consequences of colonization the search for invasion genes and the comparative biology of invasive

species A wide diversity of invasive organisms are discussed including plants animals fungi and microbes **Freshwater Ecosystems** A.H. Gnauck,M. Straškraba,2013-10-22 Ecosystem analysis and ecological modelling is a rapidly developing interdisciplinary branch of science used in theoretical developments in ecology and having practical applications in environmental protection In this book the authors introduce new holistic particularly cybernetic concepts into ecosystem theory and modelling and provide a concise treatment of mathematical modelling of freshwater ecosystems which covers methods subsystem models applications and theoretical developments Part I begins with a brief introduction to the principles of systems theory and their applications to ecosystems and provides a summary of various methods of systems analysis In Part II emphasis is laid on the pelagic processes in standing water characterised by relatively uninvolved structures from which models can be readily developed Part III describes applications of the technique of modelling to solutions of theoretical and practical problems with different modelling methods and objectives being used in the various chapters More recent developments in the methods and theory of ecosystem modelling are covered in Part IV which also includes a discussion of future trends The book is addressed to practising ecologists and engineers in the fields of ecology limnology environmental protection and water quality managements as well as to graduate post graduate university students in science and engineering Students and researchers involved in environmental applications of mathematics and cybernetics will also find the book of interest *Microstructure Evolution in Metal Forming Processes* J Lin,D Balint,M Pietrzyk,2012-07-09 Monitoring and control of microstructure evolution in metal processing is essential in developing the right properties in a metal Microstructure evolution in metal forming processes summarises the wealth of recent research on the mechanisms modelling and control of microstructure evolution during metal forming processes Part one reviews the general principles involved in understanding and controlling microstructure evolution in metal forming Techniques for modelling microstructure and optimising processes are explored along with recrystallisation grain growth and severe plastic deformation Microstructure evolution in the processing of steel is the focus of part two which reviews the modelling of phase transformations in steel unified constitutive equations and work hardening in microalloyed steels Part three examines microstructure evolution in the processing of other metals including ageing behaviour in the processing of aluminium and microstructure control in processing nickel titanium and other special alloys With its distinguished editors and international team of expert contributors Microstructure evolution in metal forming processes is an invaluable reference tool for metal processors and those using steels and other metals as well as an essential guide for academics and students involved in fundamental metal research Summarises the wealth of recent research on the mechanisms modelling and control of microstructure evolution during metal forming processes Comprehensively discusses microstructure evolution in the processing of steel and reviews the modelling of phase transformations in steel unified constitutive equations and work hardening in microalloyed steels Examines microstructure evolution in the processing of other materials including ageing

behaviour in the processing of aluminium *Handbook of Industrial Biocatalysis* Ching T. Hou, 2005-06-09 Until now no comprehensive handbook on industrial biocatalysis has been available Soliciting chapters on virtually every aspect of biocatalysis from international experts most actively researching the field the Handbook of Industrial Biocatalysis fills this need The handbook is divided into three sections based on types of substrates T **Meeting the Energy Needs of Future Warriors** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Soldier Power/Energy Systems, 2004-10-01 The central characteristic of the evolution of the combat soldier in recent years is an increasingly sophisticated array of sensing communications and related electronics for use in battlefield situations The most critical factor for maintaining this evolution will be the development of power supply systems capable of operating those electronics effectively for missions up to 72 hours long To address the challenge it is important that new approaches be sought on how to integrate and power these electronics To assist in addressing this problem the Army requested the National Research Council to review the state of the art and to recommend technologies that will support the rapid development of effective power systems for the future warrior This report presents the results of that review It provides an assessment of various technology options for different power level requirements power system design and soldier energy sinks The report also describes future design concepts focusing on low power systems Recommendations for technology development and system design are presented

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