Diffusion Processes and Partial Differential Equations

Taira, Kazuaki

Diffusion Processes And Partial Differential Equations

J. David Logan

Diffusion Processes And Partial Differential Equations:

Diffusion Processes and Partial Differential Equations Kazuaki Taira,1988 This book provides a careful and accessible exposition of functional analytic methods in stochastic analysis It focuses on the relationship between Markov processes and elliptic boundary value problems and explores several recent developments in the theory of partial differential equations which have made further progress in the study of Markov processes possible This book will have great appeal to both advanced students and researchers as an introduction to three interrelated subjects in analysis Markov processes semigroups and elliptic boundary value problems providing powerful methods for future research **Partial Differential Equations and Diffusion Processes** Russell Godding,J. Nolen,2018-11-22 In probability theory and statistics a diffusion process is a solution to a stochastic differential equation It is a continuous time Markov process with almost surely continuous sample paths Brownian motion reflected Brownian motion and Ornstein Uhlenbeck processes are examples of diffusion processes A sample path of a diffusion process models the trajectory of a particle embedded in a flowing fluid and subjected to random displacements due to collisions with other particles which is called Brownian motion The position of the particle is then random its probability density function as a function of space and time is governed by an advection diffusion equation **Stochastic Analysis and Diffusion Processes** Gopinath Kallianpur,P Sundar,2014 Beginning with the concept of random processes and Brownian motion and building on the theory and research directions in a self contained manner this book provides an introduction to stochastic analysis for graduate students researchers and applied scientists interested in stochastic processes and their applications Functional Analytic Techniques for Diffusion Processes Kazuaki Taira,2022-05-28 This book is an easy to read reference providing a link between functional analysis and diffusion processes More precisely the book takes readers to a mathematical crossroads of functional analysis macroscopic approach partial differential equations mesoscopic approach and probability microscopic approach via the mathematics needed for the hard parts of diffusion processes This work brings these three fields of analysis together and provides a profound stochastic insight microscopic approach into the study of elliptic boundary value problems The author does a massive study of diffusion processes from a broad perspective and explains mathematical matters in a more easily readable way than one usually would find The book is amply illustrated 14 tables and 141 figures are provided with appropriate captions in such a fashion that readers can easily understand powerful techniques of functional analysis for the study of diffusion processes in probability The scope of the author s work has been and continues to be powerful methods of functional analysis for future research of elliptic boundary value problems and Markov processes via semigroups A broad spectrum of readers can appreciate easily and effectively the stochastic intuition that this book conveys Furthermore the book will serve as a sound basis both for researchers and for graduate students in pure and applied mathematics who are interested in a modern version of the classical potential theory and Markov processes For advanced undergraduates working in functional analysis partial

differential equations and probability it provides an effective opening to these three interrelated fields of analysis Beginning graduate students and mathematicians in the field looking for a coherent overview will find the book to be a helpful beginning This work will be a major influence in a very broad field of study for a long time *Diffusion Processes, Jump Processes, and Stochastic Differential Equations* Wojbor A. Woyczyński,2022-03-08 Diffusion Processes Jump Processes and Stochastic Differential Equations provides a compact exposition of the results explaining interrelations between diffusion stochastic processes stochastic differential equations and the fractional infinitesimal operators The draft of this book has been extensively classroom tested by the author at Case Western Reserve University in a course that enrolled seniors and graduate students majoring in mathematics statistics engineering physics chemistry economics and mathematical finance The last topic proved to be particularly popular among students looking for careers on Wall Street and in research organizations devoted to financial problems Features Quickly and concisely builds from basic probability theory to advanced topics Suitable as a primary text for an advanced course in diffusion processes and stochastic differential equations Useful as supplementary reading across a range of topics Diffusions and Elliptic Operators Richard F. Bass,1998 A discussion of the interplay of diffusion processes and partial differential equations with an emphasis on probabilistic methods It begins with stochastic differential equations the probabilistic machinery needed to study PDE and moves on to probabilistic representations of solutions for PDE regularity of solutions and one dimensional diffusions The author discusses in depth two main types of second order linear differential operators non divergence operators and divergence operators including topics such as the Harnack inequality of Krylov Safonov for non divergence operators and heat kernel estimates for divergence form operators as well as Martingale problems and the Malliavin calculus While serving as a textbook for a graduate course on diffusion theory with applications to PDE this will also be a valuable reference to researchers in probability who are interested in PDE as well as for analysts interested in probabilistic methods **Diffusion Processes and Related Problems in Analysis, Volume II** V. Wihstutz,M.A. Pinsky,2012-12-06 During the weekend of March 16 18 1990 the University of North Carolina at Charlotte hosted a conference on the subject of stochastic flows as part of a Special Activity Month in the Department of Mathematics This conference was supported jointly by a National Science Foundation grant and by the University of North Carolina at Charlotte Originally conceived as a regional conference for researchers in the Southeastern United States the conference eventually drew participation from both coasts of the U S and from abroad This broad based par ticipation reflects a growing interest in the viewpoint of stochastic flows particularly in probability theory and more generally in mathematics as a whole While the theory of deterministic flows can be considered classical the stochastic counterpart has only been developed in the past decade through the efforts of Harris Kunita Elworthy Baxendale and others Much of this work was done in close connection with the theory of diffusion processes where dynamical systems implicitly enter probability theory by means of stochastic differential equations In this regard the Charlotte conference

served as a natural outgrowth of the Conference on Diffusion Processes held at Northwestern University Evanston Illinois in October 1989 the proceedings of which has now been published as Volume I of the current series Due to this natural flow of ideas and with the assistance and support of the Editorial Board it was decided to organize the present two volume effort

Controlled Diffusion Processes N. V. Krylov,2008-09-26 Stochastic control theory is a relatively young branch of mathematics The beginning of its intensive development falls in the late 1950s and early 1960s urin that period an extensive literature appeared on optimal stochastic control using the quadratic performance criterion see references in Wonham 76 At the same time Girsanov 25 and Howard 26 made the first steps in constructing a general theory based on Bellman s technique of dynamic programming developed by him somewhat earlier 4 Two types of engineering problems engendered two different parts of stochastic control theory Problems of the first type are associated with multistep decision making in discrete time and are treated in the theory of discrete stochastic dynamic programming For more on this theory we note in addition to the work of Howard and Bellman mentioned above the books by Derman 8 Mine and Osaki 55 and Dynkin and Yushkevich 12 Another class of engineering problems which encouraged the development of the theory of stochastic control involves time continuous control of a dynamic system in the presence of random noise The case where the system is described by a differential equation and the noise is modeled as a time continuous random process is the core of the optimal control theory of diffusion processes This book deals with this latter theory Entropy Methods for Diffusive Partial Differential Equations Ansgar Jüngel,2016-06-17 This book presents a range of entropy methods for diffusive PDEs devised by many researchers in the course of the past few decades which allow us to understand the qualitative behavior of solutions to diffusive equations and Markov diffusion processes Applications include the large time asymptotics of solutions the derivation of convex Sobolev inequalities the existence and uniqueness of weak solutions and the analysis of discrete and geometric structures of the PDEs The purpose of the book is to provide readers an introduction to selected entropy methods that can be found in the research literature In order to highlight the core concepts the results are not stated in the widest generality and most of the arguments are only formal in the sense that the functional setting is not specified or sufficient regularity is supposed The text is also suitable for advanced master and PhD students and could serve as a textbook for special courses and seminars **Optimal Control of Diffusion Processes** Vivek S. Borkar,1989 **Introduction to the Theory of Diffusion Processes** Nikolaĭ Vladimirovich Krylov,1995 Focusing on one of the major branches of probability theory this book treats the large class of processes with continuous sample paths that possess the Markov property The exposition is based on the theory of stochastic analysis which uses such notions as stochastic differentials and stochastic integrals The diffusion processes discussed are interpreted as solutions of It o s stochastic integral equations The book is designed as a self contained introduction requiring no background in the theory of probability or even in measure theory In particular the theory of local continuous martingales is covered without the introduction of the idea of conditional

expectation Krylov covers such subjects as the Wiener process and its properties the theory of stochastic integrals stochastic differential equations and their relation to elliptic and parabolic partial differential equations Kolmogorov s equations and methods for proving the smoothness of probabilistic solutions of partial differential equations With many exercises and thought provoking problems this book would be an excellent text for a graduate course in diffusion processes and related subjects   **Inverse Problems in Diffusion Processes** Heinz W. Engl,William Rundell,1995-01-01 This collection of expository papers encompasses both the theoretical and physical application side of inverse problems in diffusion processes   **Applied Diffusion Processes from Engineering to Finance** Jacques Janssen,Oronzio Manca,Raimondo Manca,2013-04-08 The aim of this book is to promote interaction between engineering finance and insurance as these three domains have many models and methods of solution in common for solving real life problems The authors point out the strict inter relations that exist among the diffusion models used in engineering finance and insurance In each of the three fields the basic diffusion models are presented and their strong similarities are discussed Analytical numerical and Monte Carlo simulation methods are explained with a view to applying them to obtain the solutions to the different problems presented in the book Advanced topics such as nonlinear problems L vy processes and semi Markov models in interactions with the diffusion models are discussed as well as possible future interactions among engineering finance and insurance   **Stochastic Processes and Applications** Grigorios A. Pavliotis,2014-11-19 This book presents various results and techniques from the theory of stochastic processes that are useful in the study of stochastic problems in the natural sciences The main focus is analytical methods although numerical methods and statistical inference methodologies for studying diffusion processes are also presented The goal is the development of techniques that are applicable to a wide variety of stochastic models that appear in physics chemistry and other natural sciences Applications such as stochastic resonance Brownian motion in periodic potentials and Brownian motors are studied and the connection between diffusion processes and time dependent statistical mechanics is elucidated The book contains a large number of illustrations examples and exercises It will be useful for graduate level courses on stochastic processes for students in applied mathematics physics and engineering Many of the topics covered in this book reversible diffusions convergence to equilibrium for diffusion processes inference methods for stochastic differential equations derivation of the generalized Langevin equation exit time problems cannot be easily found in textbook form and will be useful to both researchers and students interested in the applications of stochastic processes   Applied Partial Differential Equations J. David Logan,2004-05-11 This text is written for the standard one semester undergraduate course in elementary partial differential equations The topics include derivations of some of the standard equations of mathematical physics including the heat equation the wave equation and Laplace s equation and methods for solving those equations on bounded and unbounded domains Methods include eigenfunction expansions or separation of variables and methods based on Fourier and Laplace transforms   Approximations for Functionals and

Optimal Control Problems on Jump Diffusion Processes Harold J. Kushner,Giovanni DiMasi,BROWN UNIV PROVIDENCE R I LEFSCHETZ CENTER FOR DYNAMICAL SYSTEMS.,1976 The paper treats approximations to stochastic differential equations with both a diffusion and a jump component and to associated functionals and partial differential integral equations of the degenerate or not elliptic or parabolic type Approximations for the optimal control problem on such a model or for the associated non linear partial differential integral equation are discussed The techniques are purely probabilistic and are extensions of those in another paper by the first author which dealt with the diffusion case   *An Introduction to Nonlinear Partial Differential Equations* J. David Logan,2008-04-11 Praise for the First Edition This book is well conceived and well written The author has succeeded in producing a text on nonlinear PDEs that is not only quite readable but also accessible to students from diverse backgrounds SIAM Review A practical introduction to nonlinear PDEs and their real world applications Now in a Second Edition this popular book on nonlinear partial differential equations PDEs contains expanded coverage on the central topics of applied mathematics in an elementary highly readable format and is accessible to students and researchers in the field of pure and applied mathematics This book provides a new focus on the increasing use of mathematical applications in the life sciences while also addressing key topics such as linear PDEs first order nonlinear PDEs classical and weak solutions shocks hyperbolic systems nonlinear diffusion and elliptic equations Unlike comparable books that typically only use formal proofs and theory to demonstrate results An Introduction to Nonlinear Partial Differential Equations Second Edition takes a more practical approach to nonlinear PDEs by emphasizing how the results are used why they are important and how they are applied to real problems The intertwining relationship between mathematics and physical phenomena is discovered using detailed examples of applications across various areas such as biology combustion traffic flow heat transfer fluid mechanics quantum mechanics and the chemical reactor theory New features of the Second Edition also include Additional intermediate level exercises that facilitate the development of advanced problem solving skills New applications in the biological sciences including age structure pattern formation and the propagation of diseases An expanded bibliography that facilitates further investigation into specialized topics With individual self contained chapters and a broad scope of coverage that offers instructors the flexibility to design courses to meet specific objectives An Introduction to Nonlinear Partial Differential Equations Second Edition is an ideal text for applied mathematics courses at the upper undergraduate and graduate levels It also serves as a valuable resource for researchers and professionals in the fields of mathematics biology engineering and physics who would like to further their knowledge of PDEs   **Generalized Diffusion Processes** Nikola_ Ivanovich Portenko,1990-12-21 Diffusion processes serve as a mathematical model for the physical phenomenon of diffusion One of the most important problems in the theory of diffusion processes is the development of methods for constructing these processes from a given diffusion matrix and a given drift vector Focusing on the investigation of this problem this book is intended for specialists in the theory of random processes and its applications A generalized

diffusion process that is a continuous Markov process for which the Kolmogorov local characteristics exist in the generalized sense can serve as a model for diffusion in a medium moving in a nonregular way The author constructs generalized diffusion processes under two assumptions first that the diffusion matrix is sufficiently regular and second that the drift vector is a function integrable to some power or is a generalized function of the type of the derivative of a measure **Markov Processes and Differential Equations** Mark I. Freidlin,2012-12-06 Probabilistic methods can be applied very successfully to a number of asymptotic problems for second order linear and non linear partial differential equations Due to the close connection between the second order differential operators with a non negative characteristic form on the one hand and Markov processes on the other many problems in PDE s can be reformulated as problems for corresponding stochastic processes and vice versa In the present book four classes of problems are considered the Dirichlet problem with a small parameter in higher derivatives for differential equations and systems the averaging principle for stochastic processes and PDE s homogenization in PDE s and in stochastic processes wave front propagation for semilinear differential equations and systems From the probabilistic point of view the first two topics concern random perturbations of dynamical systems The third topic homog enization is a natural problem for stochastic processes as well as for PDE s Wave fronts in semilinear PDE s are interesting examples of pattern formation in reaction diffusion equations The text presents new results in probability theory and their applica tion to the above problems Various examples help the reader to understand the effects Prerequisites are knowledge in probability theory and in partial differential equations <u>Handbook of Monte Carlo Methods</u> Dirk P. Kroese,Thomas Taimre,Zdravko I. Botev,2013-06-06 A comprehensive overview of Monte Carlo simulation that explores the latest topics techniques and real world applications More and more of today s numerical problems found in engineering and finance are solved through Monte Carlo methods The heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the Monte Carlo approach Handbook of Monte Carlo Methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field The authors begin with a discussion of fundamentals such as how to generate random numbers on a computer Subsequent chapters discuss key Monte Carlo topics and methods including Random variable and stochastic process generation Markov chain Monte Carlo featuring key algorithms such as the Metropolis Hastings method the Gibbs sampler and hit and run Discrete event simulation Techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also

features the author s own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation Handbook of Monte Carlo Methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate levels

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