

Stochastic flows and stochastic differential equations

H. KUNITA



Stochastic Flows And Stochastic Differential Equations

K.D. Elworthy, Y. Le Jan, Xue-Mei Li



Stochastic Flows And Stochastic Differential Equations:

Stochastic Flows and Stochastic Differential Equations Hiroshi Kunita, H. Kunita, 1990 The main purpose of this book is to give a systematic treatment of the theory of stochastic differential equations and stochastic flow of diffeomorphisms and through the former to study the properties of stochastic flows The classical theory was initiated by K It and since then has been much developed Professor Kunita's approach here is to regard the stochastic differential equation as a dynamical system driven by a random vector field including thereby It's theory as a special case The book can be used with advanced courses on probability theory or for self study

An Introduction to the Geometry of Stochastic Flows Fabrice Baudoin, 2004 This book aims to provide a self contained introduction to the local geometry of the stochastic flows It studies the hypoelliptic operators which are written in Hörmander's form by using the connection between stochastic flows and partial differential equations The book stresses the author's view that the local geometry of any stochastic flow is determined very precisely and explicitly by a universal formula referred to as the Chen-Strichartz formula The natural geometry associated with the Chen-Strichartz formula is the sub-Riemannian geometry and its main tools are introduced throughout the text

Stochastic Flows and Stochastic Differential Equations H. Kunita, 1990 **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 participation 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

Lectures on Stochastic Flows and Applications H. Kunita, 1986 On the Geometry of Diffusion Operators and Stochastic Flows K.D. Elworthy, Y. Le Jan, Xue-Mei Li, 2007-01-05 Stochastic differential equations and Hörmander form representations of diffusion operators can determine a linear connection associated to the underlying sub-Riemannian structure This is systematically described together with its invariants and then exploited to discuss qualitative

properties of stochastic flows and analysis on path spaces of compact manifolds with diffusion measures This should be useful to stochastic analysts especially those with interests in stochastic flows infinite dimensional analysis or geometric analysis and also to researchers in sub Riemannian geometry A basic background in differential geometry is assumed but the construction of the connections is very direct and itself gives an intuitive and concrete introduction Knowledge of stochastic analysis is also assumed for later chapters

Stochastic Flows and Jump-Diffusions Hiroshi Kunita, 2019-03-26 This monograph presents a modern treatment of 1 stochastic differential equations and 2 diffusion and jump diffusion processes The simultaneous treatment of diffusion processes and jump processes in this book is unique Each chapter starts from continuous processes and then proceeds to processes with jumps In the first part of the book it is shown that solutions of stochastic differential equations define stochastic flows of diffeomorphisms Then the relation between stochastic flows and heat equations is discussed The latter part investigates fundamental solutions of these heat equations heat kernels through the study of the Malliavin calculus The author obtains smooth densities for transition functions of various types of diffusions and jump diffusions and shows that these density functions are fundamental solutions for various types of heat equations and backward heat equations Thus in this book fundamental solutions for heat equations and backward heat equations are constructed independently of the theory of partial differential equations Researchers and graduate student in probability theory will find this book very useful

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Lectures on Stochastic Flows and Applications H. Kunita, 1987-03-09 These are the notes of a lecture course given by the author at the T I F R Centre Bangalore in late 1985 The contents are divided into three chapters concluding with an extensive bibliography Chapters 1 and 2 deal with basic properties of stochastic flows and especially of Brownian flows and their relations with local characteristics and stochastic differential equations An appendix on the generalized Ito formula Stratonovich integral and Stratonovich stochastic differential equations has been added to Chapter 2 By the way of applications of the foregoing limit theorems for stochastic flows along with a unifying general limit theorem are

then presented in Chapter 3 including Approximation theorems for stochastic differential equations and stochastic flows due to Bismut Ikeda Watanabe Malliavin Dowell etc Limit theorems for driving processes due to Papanicolaou Stroock Varadhan and Limit theorems for stochastic differential equations due to Khasminkii Papanicolaou Kohler Kesten Papanicolaou etc

Measure-valued Processes and Stochastic Flows Andrey A. Dorogovtsev, 2023-11-06 This book discusses the systems of interacting particles evolving in the random media The focus is on the study of both the finite subsystems motion and the flow describing motion of all particles in the space The integral characteristics of the system and mass distribution are also covered and results are illustrated with examples from turbulence theory synchronization and DNA evolution

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