

Stochastic Mechanics and the Unification of Quantum Mechanics with Brownian Motion

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Abstract

We unify Brownian motion and quantum mechanics in a single mathematical framework. In particular, we show that non-relativistic quantum mechanics of a single spinless particle on a flat space can be described by a Wiener process that is rotated in the complex plane. We then extend this theory to relativistic stochastic theories on manifolds using the framework of second order geometry. As a byproduct, our results show that a consistent path integral based formulation of a quantum theory on a Lorentzian (Riemannian) manifold requires an Itô deformation of the Poincaré (Galilean) symmetry, arising due to the coupling of the quadratic variation to the affine connection.

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Stochastic Problems In Mechanics

**Naruhito Shiraishi, Masanobu
Shinozuka, Yi-Kwei Wen**



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Stochastic Problems in Mechanics Robert E. Bechhofer,1982 Stochastic Problems in Mechanics S. T. Ariaratnam,Horst H. E. Leipholz,1974 **Stochastic problems in mechanics , Convegno Su "stochastic Problems in Mechanics"** ,1982 Stochastic Problems in Mechanics Universita e Politecnico di Torino. Seminario Matematico,1982

Stochastic Problems in Dynamics Brian Leonard Clarkson,International Union of Theoretical and Applied Mechanics,1977 STOCHASTIC PROBLEMS IN MECHANICS : PROCEEDINGS OF THE SYMPOSIUM ON STOCHASTIC PROBLEMS IN MECHANICS HELD AT THE UNIV. OF WATERLOO, SEPT. 24-26, 1973 ,1974 **Stochastic Problems in Mechanics** ,1974 Stochastic Problems in Mechanics ,1974 *Stochastic Mechanics and Stochastic Processes* Aubrey Truman,Ian M. Davies,2006-11-15 The main theme of the meeting was to illustrate the use of stochastic processes in the study of topological problems in quantum physics and statistical mechanics Much discussion of current problems was generated and there was a considerable amount of interaction between mathematicians and physicists The papers presented in the proceedings are essentially of a research nature but some Lewis Hudson are introductions or surveys **Nonlinear Stochastic Systems In Physics And Mechanics** Nicola Bellomo,Ricardo Riganti,1987-03-01 This book presents the conceptual line which goes from the observation of physical systems to their modeling and analysis by ordinary differential nonlinear stochastic equations First the problems of the mathematical modeling of physical systems are developed These mathematical models are then classified in terms of ordinary differential stochastic equations from which both qualitative and quantitative results are developed Each one of the various subjects are methods dealt with ends with an application in mathematical physics or in nonlinear mechanics **Uncertainty Assessment of Large Finite Element Systems** Christian A. Schenk,Gerhart I. Schuëller,2005-06-08 The treatment of uncertainties in the analysis of engineering structures remains one of the premium challenges in modern structural mechanics It is only in recent years that the developments in stochastic and deterministic computational mechanics began to be synchronized To foster these developments novel computational procedures for the uncertainty assessment of large finite element systems are presented in this monograph The stochastic input is modeled by the so called Karhunen Lo ve expansion which is formulated in this context both for scalar and vector stochastic processes as well as for random fields Particularly for strongly non linear structures and systems the direct Monte Carlo simulation technique has proven to be most advantageous as method of solution The capabilities of the developed procedures are demonstrated by showing some practical applications **Stochastic Equations: Theory and Applications in Acoustics, Hydrodynamics, Magnetohydrodynamics, and Radiophysics, Volume 1** Valery I. Klyatskin,2014-07-14 This monograph set presents a consistent and self contained framework of stochastic dynamic systems with maximal possible completeness Volume 1 presents the basic concepts exact results and asymptotic approximations of the theory of stochastic equations on the basis of the developed functional approach This approach offers a possibility of both obtaining exact

solutions to stochastic problems for a number of models of fluctuating parameters and constructing various asymptotic buildings Ideas of statistical topography are used to discuss general issues of generating coherent structures from chaos with probability one i e almost in every individual realization of random parameters The general theory is illustrated with certain problems and applications of stochastic mathematical physics in various fields such as mechanics hydrodynamics magnetohydrodynamics acoustics optics and radiophysics

Nonlinear Dynamics and Stochastic Mechanics Wolfgang Kliemann, S. Namachchivaya, 1995-04-18 Engineering systems have played a crucial role in stimulating many of the modern developments in nonlinear and stochastic dynamics After 20 years of rapid progress in these areas this book provides an overview of the current state of nonlinear modeling and analysis for mechanical and structural systems This volume is a coherent compendium written by leading experts from the United States Canada Western and Eastern Europe and Australia The 22 articles describe the background recent developments applications and future directions in bifurcation theory chaos perturbation methods stochastic stability stochastic flows random vibrations reliability disordered systems earthquake engineering and numerics The book gives readers a sophisticated toolbox that will allow them to tackle modeling problems in mechanical systems that use stochastic and nonlinear dynamics ideas An extensive bibliography and index ensure this volume will remain a reference standard for years to come

Structural Safety and Reliability Naruhito Shiraishi, Masanobu Shinozuka, Yi-Kwei Wen, 1998

Nondeterministic Mechanics Isaac Elishakoff, Christian Soize, 2013-07-30 Table of contents Stochastic methods in nonlinear structural dynamics Stochastic models of uncertainties in computational structural dynamics and structural acoustics The tale of stochastic linearization techniques over half a century of progress Comprehensive modeling of uncertain systems using fuzzy set theory Bounding uncertainty in civil engineering theoretical background and applications Combined methods in nondeterministic mechanics In this book the current state of the art of nondeterministic mechanics in its various forms is presented The topics range from stochastic problems to fuzzy sets from linear to nonlinear problems from specific methodologies to combinations of various techniques from theoretical considerations to practical applications It is specially designed to illuminate the various aspects of the three methodologies probabilistic or stochastic modelling fuzzy sets based analysis antioptimization of structures to deal with various uncertainties and deepen the discussion of their pros and cons

Snapshot-Based Methods and Algorithms Peter Benner, et al., 2020-12-16 An increasing complexity of models used to predict real world systems leads to the need for algorithms to replace complex models with far simpler ones while preserving the accuracy of the predictions This two volume handbook covers methods as well as applications This second volume focuses on applications in engineering biomedical engineering computational physics and computer science

New Perspectives In The Physics Of Mesoscopic Systems: Quantum-like Descriptions And Macroscopic Cohe Renato Fedele, Salvatore De Martino, Silvio De Siena, S De Nicola, Gennaro Miele, 1997-10-22 The very fast progress registered during the last few decades in physics has clearly shown

the great necessity to give an interdisciplinary character to the scientific programs This has made the intersection between different branches of physics more and more important This volume contains theoretical and experimental results concerning the relationships among quantum like models macroscopic coherence and stochastic mechanics The wide range of topics covering particle accelerator physics plasma physics quantum optics superconductivities and mesoscopic gravitation is presented from a cross disciplinary point of view Archives of Mechanics ,1976 **Nonlinear Dynamics and Stochastic Mechanics** Navaratnam Sri Namachchivaya,1996 This volume contains the proceedings of the International Symposium on Nonlinear Dynamics and Stochastic Mechanics held at the Fields Institute for Research in Mathematical Sciences from August September 1993 as part of the 1992 93 Program Year on Dynamical Systems and Bifurcation Theory In recent years mathematicians and applied scientists have made significant progress in understanding and have developed powerful tools for the analysis of the complex behaviour of deterministic and stochastic dynamical systems By moving beyond classical perturbation methods to more general geometrical computational and analytical methods this book is at the forefront in transferring these new mathematical ideas into engineering practice This work presents the solutions of some specific problems in engineering structures and mechanics and demonstrates by explicit example these new methods of solution

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