

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

**Erwin Stein, René de Borst, Thomas J.
R. Hughes**



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Stochastic Problems in Mechanics Robert E. Bechhofer, 1982 *Stochastic Problems in Mechanics* S. T. Ariaratnam, Horst H. E. Leipholz, 1974 **Convegno Su "stochastic Problems in Mechanics"**, 1982 **Stochastic Problems in Mechanics**, 1974 *Stochastic Problems in Dynamics* Brian Leonard Clarkson, International Union of Theoretical and Applied Mechanics, 1977 **Stochastic Problems in Mechanics** Università e Politecnico di Torino. Seminario Matematico, 1982 Stochastic problems in mechanics, **STOCHASTIC PROBLEMS IN MECHANICS : PROCEEDINGS OF THE SYMPOSIUM ON STOCHASTIC PROBLEMS IN MECHANICS HELD AT THE UNIV. OF WATERLOO, SEPT. 24-26, 1973**, 1974 *Some Stochastic Problems in Physics and Mathematics* Mark Kac, 1957

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 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 Applied Mechanics Reviews, 1975 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 **Computational Fluid and Solid Mechanics 2003** K.J Bathe, 2003-06-02 Bringing together the world s leading

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Encyclopedia of Computational Mechanics, 6 Volume Set Erwin Stein, René de Borst, Thomas J. R. Hughes, 2018-03-12 An extensively expanded and revised edition of the leading major reference work in computational engineering The completely updated and extended second edition of Encyclopedia of Computational Mechanics Second Edition has once again been prepared under the guidance of three of the world s foremost experts in the field It follows the same structure as the first edition yet has been expanded from three to six full volumes to give readers a more in depth and complete understanding of the topic Volumes 1 Isogeometric analysis as well as various direct and iterative solvers time dependent parabolic problems and FEMs for the Maxwell equation further new chapters on uncertainty quantification and related stochastic solution methods are included Volumes 3 constitutive theories and their implementation materials and processing interaction problems and identification stochastic and optimization Volumes 5 cover the various aspects of incompressible viscous flows focus on compressible fluid dynamics and address problems involving moving domains and free surfaces and application areas The single most comprehensive reference on computational mechanics 18 new chapters added representing a more than 20% increase over current edition Extensive revision plan with major updates to the majority of existing articles Covers solid and fluid mechanics with extensive treatment of FEA and CFD techniques With contributions from leading experts around the globe this is an essential and comprehensive reference for any university engineering department or corporation and contains invaluable up to date content for researchers students and practitioners

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Archives of Mechanics, 1993 *Stochastic Processes* Wolfgang Paul, Jörg Baschnagel, 1999 The book is an introduction to stochastic processes with applications from physics and finance It introduces the basic notions of probability theory and the mathematics of stochastic processes The applications that we discuss are chosen to show the interdisciplinary character of the concepts and methods and are taken from physics and finance Due to its interdisciplinary character and choice of topics the book can show students and researchers in physics how models and techniques used in their field can be translated into and applied in the field of finance and risk management On the other hand a practitioner from the field of finance will find models and approaches recently developed in the emerging field of econophysics for understanding the stochastic price behavior of financial assets *Nonlinear Stochastic Systems in Physics and Mechanics* N. Bellomo, Riccardo Riganti, 1987 This book presents the conceptional 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

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