

Stochastic
Equations for Complex
Systems

Stochastic Equations for Complex Systems

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Stochastic Equations For Complex Systems

M. Reza Rahimi Tabar



Stochastic Equations For Complex Systems:

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Stochastic Equations for Complex Systems Stefan Heinz,Hakima Bessaih,2015-05-06 Mathematical analyses and computational predictions of the behavior of complex systems are needed to effectively deal with weather and climate predictions for example and the optimal design of technical processes Given the random nature of such systems and the recognized relevance of randomness the equations used to describe such systems usually need to involve stochastics The basic goal of this book is to introduce the mathematics and application of stochastic equations used for the modeling of complex systems A first focus is on the introduction to different topics in mathematical analysis A second focus is on the application of mathematical tools to the analysis of stochastic equations A third focus is on the development and application of stochastic methods to simulate turbulent flows as seen in reality This book is primarily oriented towards mathematics and engineering PhD students young and experienced researchers and professionals working in the area of stochastic differential equations and their applications It contributes to a growing understanding of concepts and terminology used by mathematicians engineers and physicists in this relatively young and quickly expanding field

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grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as experimental mathematics CFD completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics

Stochastic Processes - Don Kulasiri,2024-07-31 **Stochastic Dynamics Of Complex Systems: From Glasses To Evolution** Henrik Jeldtoft Jensen,Paolo Sibani,2013-02-20 Dynamical evolution over long time scales is a prominent feature of all the systems we intuitively think of as complex for example ecosystems the brain or the economy In physics the term ageing is used for this type of slow change occurring over time scales much longer than the patience or indeed the lifetime of the observer The main focus of this book is on the stochastic processes which cause ageing and the surprising fact that the ageing dynamics of systems which are very different at the microscopic level can be treated in similar ways The first part of this book provides the necessary mathematical and computational tools and the second part describes the intuition needed to deal with these systems Some of the first few chapters have been covered in several other books but the emphasis and selection of the topics reflect both the authors interests and the overall theme of the book The second part contains an introduction to the scientific literature and deals in some detail with the description of complex phenomena of a physical and biological nature for example disordered magnetic materials superconductors and glasses models of co evolution in ecosystems and even of ant behaviour These heterogeneous topics are all dealt with in detail using similar analytical techniques This book emphasizes the unity of complex dynamics and provides the tools needed to treat a large number of complex systems of current interest The ideas and the approach to complex dynamics it presents have not appeared in book form until now a Extraction of Quantifiable Information from Complex Systems Stephan Dahlke,Wolfgang Dahmen,Michael Griebel,Wolfgang Hackbusch,Klaus Ritter,Reinhold Schneider,Christoph Schwab,Harry Yserentant,2014-11-13 In April 2007 the Deutsche Forschungsgemeinschaft DFG approved the Priority Program 1324 Mathematical Methods for Extracting Quantifiable Information from Complex Systems This volume presents a comprehensive overview of the most important results obtained over the course of the program Mathematical models of complex systems provide the foundation for further technological developments in science engineering and computational finance Motivated by the trend toward steadily increasing computer power ever more realistic models have been developed in recent years These models have also become increasingly complex and their

numerical treatment poses serious challenges Recent developments in mathematics suggest that in the long run much more powerful numerical solution strategies could be derived if the interconnections between the different fields of research were systematically exploited at a conceptual level Accordingly a deeper understanding of the mathematical foundations as well as the development of new and efficient numerical algorithms were among the main goals of this Priority Program The treatment of high dimensional systems is clearly one of the most challenging tasks in applied mathematics today Since the problem of high dimensionality appears in many fields of application the above mentioned synergy and cross fertilization effects were expected to make a great impact To be truly successful the following issues had to be kept in mind theoretical research and practical applications had to be developed hand in hand moreover it has proven necessary to combine different fields of mathematics such as numerical analysis and computational stochastics To keep the whole program sufficiently focused we concentrated on specific but related fields of application that share common characteristics and as such they allowed us to use closely related approaches

Stochastic Equations Valery I Klyatskin,2014-08-31 *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

Geometrical Dynamics of Complex Systems Vladimir G. Ivancevic,Tijana T. Ivancevic,2006-09-10 *Geometrical Dynamics of Complex Systems* is a graduate level monographic textbook It represents a comprehensive introduction into rigorous geometrical dynamics of complex systems of various natures By complex systems in this book are meant high dimensional nonlinear systems which can be but not necessarily are adaptive This monograph proposes a unified geometrical approach to dynamics of complex systems of various kinds engineering physical biophysical psychophysical sociophysical econophysical etc As their names suggest all these multi input multi output MIMO systems have something in common the underlying physics However instead of dealing with the popular soft complexity philosophy we rather propose a rigorous geometrical and topological approach We believe that our rigorous approach has much greater predictive power than the soft one We argue that science and technology is all about prediction and control Observation understanding and explanation are important in education at undergraduate level but after that it should be all prediction and control The main objective of this

book is to show that high dimensional nonlinear systems and processes of real life can be modelled and analyzed using rigorous mathematics which enables their complete predictability and controllability as if they were linear systems It is well known that linear systems which are completely predictable and controllable by definition live only in Euclidean spaces of various dimensions They are as simple as possible mathematically elegant and fully elaborated from either scientific or engineering side However in nature nothing is linear In reality everything has a certain degree of nonlinearity which means unpredictability with subsequent uncontrollability

Unifying Themes In Complex Systems, Volume 1 Yaner Bar-yam, 2018-05-04 The study of complex systems has attracted a broad range of researchers from many disciplines spanning both the hard and soft sciences In the Autumn of 1997 300 of these researchers came together for the First International Conference on Complex Systems The proceedings of this conference is the first book in the New England Complex Systems Institute Series on Complexity and includes more than 100 presentations and papers on topics like evolution emergence complexity self organization scaling informatics time series emergence of mind and engineering of complex systems

1990 Lectures In Complex Systems Lynn Nadel, Daniel I. Stein, 2018-10-08 An excellent series presenting top lecturers from the best institute for complex systems Topics covered include stochastic processes fluid flow pattern formation information based complexity motor system problems and the nature of adaptive change

Dependability Engineering and Complex Systems Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2016-06-17 These proceedings present the results of the Eleventh International Conference on Dependability and Complex Systems DepCoS RELCOMEX which took place in a picturesque Brun w Palace in Poland from 27th June to 1st July 2016 DepCoS RELCOMEX is a series of international conferences organized annually by Department of Computer Engineering of Wrocław University of Science and Technology since 2006 The roots of the series go as far back as to the seventies of the previous century the first RELCOMEX conference took place in 1977 and now its main aim is to promote a multi disciplinary approach to dependability problems in theory and engineering practice of complex systems Complex systems nowadays most often computer based and distributed are built upon a variety of technical information software and human resources The challenges in their design analysis and maintenance not only originate from the involved technical and organizational structures but also from the complexity of the information processes that must be efficiently executed in a diverse often hostile operational environment Traditional methods of reliability evaluation focused only on technical resources are usually insufficient in this context and more innovative multidisciplinary methods of dependability analysis must be applied The diversity of the topics which need to be considered is well illustrated by the selection of the submissions in these proceedings with their subjects ranging from mathematical models and design methodologies through software engineering and data security issues up to practical problems in technical e.g transportation systems

Nonlinear Dynamics, Chaotic and Complex Systems Eryk Infeld, R. Zelazny, A. Galkowski, 1997-06-19 The physics and mathematics of

nonlinear dynamics chaotic and complex systems constitute some of the most fascinating developments of late twentieth century science It turns out that chaotic behaviour can be understood and even utilized to a far greater degree than had been suspected Surprisingly universal constants have been discovered The implications have changed our understanding of important phenomena in physics biology chemistry economics medicine and numerous other fields of human endeavor In this book two dozen scientists and mathematicians who were deeply involved in the nonlinear revolution cover most of the basic aspects of the field

Complex Systems G. Rzevski, C.A. Brebbia, 2016-02-09 The papers contained in this volume were originally presented at the 2015 International Conference on Complex Systems in Business Administration Science and Engineering Included are the latest works of practitioners from a variety of disciplines who have developed new approaches for resolving complex issues that cannot be formulated using conventional mathematical or software models Complex Systems occur in an infinite variety of problems not only in the realm of physical sciences and engineering but also in such diverse fields as economics the environment humanities and social and political sciences The papers in the book cover such topics as Complex ecological systems Complexity science and urban developments Complex energy systems Complex issues in biological and medical sciences Extreme events natural and human made disasters Climate change Complexity of the internet based global market Complex business processes Supply chain complexity Transportation complexity Logistics complexity Closed and open systems Attractions and chaotic systems Complex adaptive software Complexity of big data Management of complexity Global economy as a complex system Complexity in social systems Complex political systems Administrations as complex systems Complexity in engineering Complexity and environment Complexity and evolution Complexity in linguistics literature and arts

Stability and Stabilization of Nonlinear Systems with Random Structures I. Ya Kats, A.A. Martynyuk, 2002-08-22 Nonlinear systems with random structures arise quite frequently as mathematical models in diverse disciplines This monograph presents a systematic treatment of stability theory and the theory of stabilization of nonlinear systems with random structure in terms of new developments in the direct Lyapunov's method The analysis focuses on dynamic systems with random Markov parameters This high level research text is recommended for all those researching or studying in the fields of applied mathematics applied engineering and physics particularly in the areas of stochastic differential equations dynamical systems stability and control theory

Unifying Themes In Complex Systems Yaneer Bar-yam, 1999 The study of complex systems has attracted a broad range of researchers from many disciplines spanning both the hard and soft sciences In the Autumn of 1997 300 of these researchers came together for the First International Conference on Complex Systems The proceedings of this conference is the first book in the New England Complex Systems Institute series on Complexity and includes more than 100 presentations and papers on such topics as evolution emergence complexity self organisation scaling informatics time series emergence of mind and engineering of complex systems This research is expected to be a precursor to an explosive growth of interest in this field

Analysis and Data-Based

Reconstruction of Complex Nonlinear Dynamical Systems M. Reza Rahimi Tabar, 2019 This book focuses on a central question in the field of complex systems Given a fluctuating in time or space uni or multi variant sequentially measured set of experimental data even noisy data how should one analyse non parametrically the data assess underlying trends uncover characteristics of the fluctuations including diffusion and jump contributions and construct a stochastic evolution equation Here the term non parametrically exemplifies that all the functions and parameters of the constructed stochastic evolution equation can be determined directly from the measured data The book provides an overview of methods that have been developed for the analysis of fluctuating time series and of spatially disordered structures Thanks to its feasibility and simplicity it has been successfully applied to fluctuating time series and spatially disordered structures of complex systems studied in scientific fields such as physics astrophysics meteorology earth science engineering finance medicine and the neurosciences and has led to a number of important results The book also includes the numerical and analytical approaches to the analyses of complex time series that are most common in the physical and natural sciences Further it is self contained and readily accessible to students scientists and researchers who are familiar with traditional methods of mathematics such as ordinary and partial differential equations The codes for analysing continuous time series are available in an R package developed by the research group Turbulence Wind energy and Stochastic TWiSt at the Carl von Ossietzky University of Oldenburg under the supervision of Prof Dr Joachim Peinke This package makes it possible to extract the stochastic evolution equation underlying a set of data or measurements

Approximation Methods and Analytical Modeling Using Partial Differential Equations Tamara Fastovska, Yurii Kolomoitsev, Kateryna Buryachenko, Marina Chugunova, 2025-03-28 Adequate mathematical modeling is the key to success for many real world projects in engineering medicine and other applied areas As soon as an appropriate mathematical model is developed it can be comprehensively analyzed by a broad spectrum of available mathematical methods For example compartmental models are widely used in mathematical epidemiology to describe the dynamics of infectious diseases and in mathematical models of population genetics While the existence of an optimal solution under certain condition can be often proved rigorously this does not always mean that such a solution is easy to implement in practice Finding a reasonable approximation can in itself be a challenging research problem This Research Topic is devoted to modeling analysis and approximation problems whose solutions exploit and explore the theory of partial differential equations It aims to highlight new analytical tools for use in the modeling of problems arising in applied sciences and practical areas Researchers are invited to submit articles that investigate the qualitative behavior of weak solutions removability conditions for singularities the dependence of the local asymptotic property of these solutions on initial and boundary data and also the existence of solutions Contributors are particularly encouraged to focus on anisotropic models analyzing the preconditions on the strength of the anisotropy and comparing the analytical estimates for the growth behavior of the solutions near the singularities with the observed growth in numerical simulations The qualitative analysis

and analytical results should be confirmed by the numerically observed solution behavior **Advances in Theory and Practice of Computational Mechanics** Lakhmi C. Jain, Margarita N. Favorskaya, Ilia S. Nikitin, Dmitry L.

Reviznikov, 2020-03-31 This book discusses physical and mathematical models numerical methods computational algorithms and software complexes which allow high precision mathematical modeling in fluid gas and plasma mechanics general mechanics deformable solid mechanics and strength destruction and safety of structures These proceedings focus on smart technologies and software systems that provide effective solutions to real world problems in applied mechanics at various multi scale levels Highlighting the training of specialists for the aviation and space industry it is a valuable resource for experts in the field of applied mathematics and mechanics mathematical modeling and information technologies as well as developers of smart applied software systems *Modeling Complex Living Systems* Nicola Bellomo, 2007-10-05

The subject of this book is the modeling of complex systems in the life sciences constituted by a large number of interacting entities called active particles Their physical state includes in addition to geometrical and mechanical variables a variable called the activity which characterizes the specific living system to be modeled Interactions among particles not only modify the microscopic state but may generate proliferative and or destructive phenomena The aim of the book is to develop mathematical methods and tools even a new mathematics for the modeling of living systems The background idea is that the modeling of living systems requires technically complex mathematical methods which may be substantially different from those used to deal with inert matter The first part of the book discusses methodological issues namely the derivation of various general mathematical frameworks suitable to model particular systems of interest in the applied sciences The second part presents the various models and applications The mathematical approach used in the book is based on mathematical kinetic theory for active particles which leads to the derivation of evolution equations for a one particle distribution function over the microscopic state Two types of equations to be regarded as a general mathematical framework for deriving the models are derived corresponding to short and long range interactions

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