

Ruth F. Curtain

Stability of Stochastic Dynamical Systems

294

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Stochastic Dynamical Systems

Josef Honerkamp



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Fokker Planck equation method The author answers three types of questions concerning this area First what probabilistic tools are necessary for constructing a stochastic model and deriving the FKP equation for nonlinear stochastic dynamical systems Secondly what are the main results concerning the existence and uniqueness of an invariant measure and its associated stationary response Finally what is the class of multidimensional dynamical systems that have an explicit invariant measure and what are the fundamental examples for applications On Stochastic dynamical systems C. Van Putten,1979

Stability of Stochastic Dynamical Systems Ruth F. Curtain,1972 **A Dynamical Systems Theory of Thermodynamics** Wassim M. Haddad,2019-06-04 A brand new conceptual look at dynamical thermodynamics This book merges the two universalisms of thermodynamics and dynamical systems theory in a single compendium with the latter providing an ideal language for the former to develop a new and unique framework for dynamical thermodynamics In particular the book uses system theoretic ideas to bring coherence clarity and precision to an important and poorly understood classical area of science The dynamical systems formalism captures all of the key aspects of thermodynamics including its fundamental laws while providing a mathematically rigorous formulation for thermodynamical systems out of equilibrium by unifying the theory of mechanics with that of classical thermodynamics This book includes topics on nonequilibrium irreversible thermodynamics Boltzmann thermodynamics mass action kinetics and chemical reactions finite time thermodynamics thermodynamic critical phenomena with continuous and discontinuous phase transitions information theory continuum and stochastic thermodynamics and relativistic thermodynamics A Dynamical Systems Theory of Thermodynamics develops a postmodern theory of thermodynamics as part of mathematical dynamical systems theory The book establishes a clear nexus between thermodynamic irreversibility the second law of thermodynamics and the arrow of time to further unify discreteness and continuity indeterminism and determinism and quantum mechanics and general relativity in the pursuit of understanding the most fundamental property of the universe the entropic arrow of time

Stochastic Dynamical Systems Peter Biller,Joseph Honerkamp,Francesco Petruccione,1991 Chaotic Transitions in Deterministic and Stochastic Dynamical Systems Emil Simiu,2014-09-08 The classical Melnikov method provides information on the behavior of deterministic planar systems that may exhibit transitions i e escapes from and captures into preferred regions of phase space This book develops a unified treatment of deterministic and stochastic systems that extends the applicability of the Melnikov method to physically realizable stochastic planar systems with additive state dependent white colored or dichotomous noise The extended Melnikov method yields the novel result that motions with transitions are chaotic regardless of whether the excitation is deterministic or stochastic It explains the role in the occurrence of transitions of the characteristics of the system and its deterministic or stochastic excitation and is a powerful modeling and identification tool The book is designed primarily for readers interested in applications The level of preparation required corresponds to the equivalent of a first year graduate course in applied mathematics No previous exposure to dynamical systems theory or the

theory of stochastic processes is required. The theoretical prerequisites and developments are presented in the first part of the book. The second part of the book is devoted to applications ranging from physics to mechanical engineering, naval architecture, oceanography, nonlinear control, stochastic resonance, and neurophysiology.

Stochastic Dynamical Systems and Processes with Discontinuous Sample Paths Stephen John Rogerson, 1981

Random Dynamical Systems Ludwig Arnold, 2013-04-17

Background and Scope of the Book: This book continues, extends, and unites various developments in the intersection of probability theory and dynamical systems. I will briefly outline the background of the book, thus placing it in a systematic and historical context and tradition. Roughly speaking, a random dynamical system is a combination of a measure-preserving dynamical system in the sense of ergodic theory and a smooth or topological dynamical system, typically generated by a differential or difference equation or a random differential equation or random difference equation. Both components have been very well investigated separately. However, a symbiosis of them leads to a new research program which has only partly been carried out. As we will see, it also leads to new problems which do not emerge if one only looks at ergodic theory and smooth or topological dynamics separately. From a dynamical systems point of view, this book just deals with those dynamical systems that have a measure-preserving dynamical system as a factor, or the other way around, are extensions of such a factor. As there is an invariant measure on the factor, ergodic theory is always involved.

Stochastic Equations: Theory and Applications in Acoustics, Hydrodynamics, Magnetohydrodynamics, and Radiophysics, Volume 2 Valery I. Klyatskin, 2014-07-14

In some cases, certain coherent structures can exist in stochastic dynamic systems almost in every particular realization of random parameters describing these systems. Dynamic localization in one-dimensional dynamic systems, vortex genesis, vortex production in hydrodynamic flows, and the phenomenon of clustering of various fields in random media (i.e., appearance of small regions with enhanced content of the field against the nearly vanishing background of this field in the remaining portion of space) are examples of such structure formation. The general methodology presented in Volume 1 is used in Volume 2.

Coherent Phenomena in Stochastic Dynamic Systems to expound the theory of these phenomena in some specific fields of stochastic science, among which are hydrodynamics, magnetohydrodynamics, acoustics, optics, and radiophysics. The material of this volume includes particle and field clustering in the cases of scalar density field and vector magnetic field, passive tracers in a random velocity field, dynamic localization of plane waves in layered random media, as well as monochromatic wave propagation and caustic structure formation in random media in terms of the scalar parabolic equation.

Applied Nonautonomous and Random Dynamical Systems Tomás Caraballo, Xiaoying Han, 2017-01-31

This book offers an introduction to the theory of non-autonomous and stochastic dynamical systems with a focus on the importance of the theory in the Applied Sciences. It starts by discussing the basic concepts from the theory of autonomous dynamical systems, which are easier to understand and can be used as the motivation for the non-autonomous and stochastic situations. The book

subsequently establishes a framework for non autonomous dynamical systems and in particular describes the various approaches currently available for analysing the long term behaviour of non autonomous problems Here the major focus is on the novel theory of pullback attractors which is still under development In turn the third part represents the main body of the book introducing the theory of random dynamical systems and random attractors and revealing how it may be a suitable candidate for handling realistic models with stochasticity A discussion of future research directions serves to round out the coverage

Linearization Methods for Stochastic Dynamic Systems Leslaw Socha,2007-12-20 For most cases of interest exact solutions to nonlinear equations describing stochastic dynamical systems are not available This book details the relatively simple and popular linearization techniques available covering theory as well as application It examines models with continuous external and parametric excitations those that cover the majority of known approaches

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

An Introduction To Nonautonomous Dynamical Systems And Their Attractors Peter Kloeden,Meihua Yang,2020-11-25 The nature of time in a nonautonomous dynamical system is very different from that in autonomous systems which depend only on the time that has elapsed since starting rather than on the actual time itself Consequently limiting objects may not exist in actual time as in autonomous systems New concepts of attractors in nonautonomous dynamical system are thus required In addition the definition of a dynamical system itself needs to be generalised to the nonautonomous context Here two possibilities are considered two parameter semigroups or processes and the skew product flows Their attractors are defined in terms of families of sets that are mapped onto each other under the dynamics rather than a single set as in autonomous systems Two types of attraction are now possible pullback attraction which depends on the behaviour from the system in the distant past and forward attraction which depends on the behaviour of the system in the distant future These are generally independent of each other The component subsets of pullback and forward attractors exist in actual time The asymptotic behaviour in the future limit is characterised by omega limit sets in terms of which form what are called forward attracting sets They are generally not invariant in the conventional sense but are asymptotically invariant in general and if the future dynamics is

appropriately uniform also asymptotically negatively invariant Much of this book is based on lectures given by the authors in Frankfurt and Wuhan It was written mainly when the first author held a Thousand Expert Professorship at the Huazhong University of Science and Technology in Wuhan

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