Yuri Kifer

Random
Perturbations of
Dynamical Systems

Random Perturbations Of Dynamical Systems Progress In Probability

Cesar E. Silva,Alexandre I. Danilenko

Random Perturbations Of Dynamical Systems Progress In Probability:

    Random Perturbations of Dynamical Systems Yuri Kifer,2012-12-06 Mathematicians often face the question to which extent mathematical models describe processes of the real world These models are derived from experimental data hence they describe real phenomena only approximately Thus a mathematical approach must begin with choosing properties which are not very sensitive to small changes in the model and so may be viewed as properties of the real process In particular this concerns real processes which can be described by means of ordinary differential equations By this reason different notions of stability played an important role in the qualitative theory of ordinary differential equations commonly known nowdays as the theory of dynamical systems Since physical processes are usually affected by an enormous number of small external fluctuations whose resulting action would be natural to consider as random the stability of dynamical systems with respect to random perturbations comes into the picture There are differences between the study of stability properties of single trajectories i e the Lyapunov stability and the global stability of dynamical systems The stochastic Lyapunov stability was dealt with in Hasminskii Has In this book we are concerned mainly with questions of global stability in the presence of noise which can be described as recovering parameters of dynamical systems from the study of their random perturbations The parameters which is possible to obtain in this way can be considered as stable under random perturbations and so having physical sense 1 Our set up is the following   Random Perturbations of Dynamical Systems Yuri Kifer,2012-05-27 Mathematicians often face the question to which extent mathematical models describe processes of the real world These models are derived from experimental data hence they describe real phenomena only approximately Thus a mathematical approach must begin with choosing properties which are not very sensitive to small changes in the model and so may be viewed as properties of the real process In particular this concerns real processes which can be described by means of ordinary differential equations By this reason different notions of stability played an important role in the qualitative theory of ordinary differential equations commonly known nowdays as the theory of dynamical systems Since physical processes are usually affected by an enormous number of small external fluctuations whose resulting action would be natural to consider as random the stability of dynamical systems with respect to random perturbations comes into the picture There are differences between the study of stability properties of single trajectories i e the Lyapunov stability and the global stability of dynamical systems The stochastic Lyapunov stability was dealt with in Hasminskii Has In this book we are concerned mainly with questions of global stability in the presence of noise which can be described as recovering parameters of dynamical systems from the study of their random perturbations The parameters which is possible to obtain in this way can be considered as stable under random perturbations and so having physical sense 1 Our set up is the following   *Lyapunov Exponents and Invariant Manifolds for Random Dynamical Systems in a Banach Space* Zeng Lian,Kening Lu,2010 The authors study the Lyapunov exponents and their associated invariant subspaces for infinite dimensional random dynamical systems in a Banach

space which are generated by for example stochastic or random partial differential equations The authors prove a multiplicative ergodic theorem and then use this theorem to establish the stable and unstable manifold theorem for nonuniformly hyperbolic random invariant sets **Mathematics of Complexity and Dynamical Systems** Robert A. Meyers,2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers **Concepts and Results in Chaotic Dynamics: A Short Course** Pierre Collet,Jean-Pierre Eckmann,2007-07-07 This book is devoted to the subject commonly called Chaotic Dynamics namely the study of complicated behavior in time of maps and ows called dynamical systems The theory of chaotic dynamics has a deep impact on our understanding of ture and we sketch here our view on this question The strength of this theory comes from its generality in that it is not limited to a particular equation or scienti c main It should be viewed as a conceptual framework with which one can capture properties of systems with complicated behavior Obviously such a general fra work cannot describe a system down to its most intricate details but it is a useful and important guideline on how a certain kind of complex systems may be understood and analyzed The theory is based on a description of idealized systems such as hyperbolic systems The systems to which the theory applies should be similar to these idealized systems They should correspond to a xed evolution equation which however need to be neither modeled nor explicitly known in detail Experimentally this means that the conditions under which the experiment is performed should be as constant as possible The same condition applies to analysis of data which say come from the evolution of glaciations One cannot apply chaos theory to systems under varying external conditions but only to systems which have some self generated chaos under xed external conditions *Ergodic Theory, Analysis, and Efficient Simulation of Dynamical Systems* Bernold Fiedler,2012-12-06 This book summarizes and highlights progress in our understanding of Dy namical Systems during six years of the German Priority Research Program Ergodic Theory Analysis and Efficient Simulation of Dynamical Systems The program was funded by the Deutsche Forschungsgemeinschaft DFG and aimed at combining focussing and enhancing research efforts of active groups in the field by cooperation on a federal level The surveys in the book are addressed to experts and non experts in the

mathematical community alike In addition they intend to convey the significance of the results for applications far into the neighboring disciplines of Science Three fundamental topics in Dynamical Systems are at the core of our research effort behavior for large time dimension measure and chaos Each of these topics is of course a highly complex problem area in itself and does not fit naturally into the deplorably traditional confines of any of the disciplines of ergodic theory analysis or numerical analysis alone The necessity of mathematical cooperation between these three disciplines is quite obvious when facing the formidahle task of establishing a bidirectional transfer which bridges the gap between deep detailed theoretical insight and relevant specific applications Both analysis and numerical analysis playa key role when it comes to huilding that bridge Some steps of our joint bridging efforts are collected in this volume Neither our approach nor the presentations in this volume are monolithic   *Nonlinear Dynamics and Statistics* Alistair I. Mees,2012-12-06 All models are lies The Earth orbits the sun in an ellipse with the sun at one focus is false but accurate enough for almost all purposes This book describes the current state of the art of telling useful lies about time varying systems in the real world Specifically it is about trying to understand that is tell useful lies about dynamical systems directly from observa tions either because they are too complex to model in the conventional way or because they are simply ill understood B cause it overlaps with conventional time series analysis building mod els of nonlinear dynamical systems directly from data has been seen by some observers as a somewhat ill informed attempt to reinvent time series analysis The truth is distinctly less trivial It is surely impossible except in a few special cases to re create Newton s astonishing feat of writing a short equation that is an excellent description of real world phenomena Real systems are connected to the rest of the world they are noisy non stationary and have high dimensional dynamics even when the dynamics contains lower dimensional attractors there is almost never a coordinate system available in which these at tractors have a conventionally simple description   **New Trends in Stochastic Analysis and Related Topics** Huaizhong Zhao,2011 The volume is dedicated to Professor David Elworthy to celebrate his fundamental contribution and exceptional influence on stochastic analysis and related fields Stochastic analysis has been profoundly developed as a vital fundamental research area in mathematics in recent decades It has been discovered to have intrinsic connections with many other areas of mathematics such as partial differential equations functional analysis topology differential geometry dynamical systems etc Mathematicians developed many mathematical tools in stochastic analysis to understand and model random phenomena in physics biology finance fluid environment science etc This volume contains 12 comprehensive review new articles written by world leading researchers by invitation and their collaborators It covers stochastic analysis on manifolds rough paths Dirichlet forms stochastic partial differential equations stochastic dynamical systems infinite dimensional analysis stochastic flows quantum stochastic analysis and stochastic Hamilton Jacobi theory Articles contain cutting edge research methodology results and ideas in relevant fields They are of interest to research mathematicians and postgraduate students in stochastic analysis probability partial differential equations dynamical systems mathematical

physics as well as to physicists financial mathematicians engineers etc **Dynamics: Numerical Explorations** Helena E. Nusse,James A. Yorke,2012-12-06 Plotting trajectories is a useful capability in exploring a dynamical system but it is just the beginning The Maryland Chaos Group developed an array of tools to help visualize the properties of dynamical systems induding automatic method for plotting all basins and attractors and for automatically searching for all computing straddle trajectories periodic orbits of a specified period In the investigations of the Maryland Chaos Group I A Yorke found it useful to be able to combine these various basic tools with each other into so that each new study could benefit a single package that grew with time from the previous programming efforts He has been writing this software and distributing versions for the last nine years The resulting program Dynamics requires either a Unix workstation running XII graphics or an IBM PC compatible computer Eric I Kostelich has put in a great deal of effort to port the program to Unix workstations Some basic tools in Dynamics such as the computation of Lyapunov exponents and the use of Newton s method are standard The method of computation of stable and unstable manifolds is superior to standard procedures Dynamics is currently being used extensively in our research and it is being used in undergraduate courses Dynamics Numerical Explora ons provides an introduction to and overview of fundamental tools and numerical methods together with many simple examples All the numerical methods described in this book are implemented in Dynamics **Lectures on Probability Theory and Statistics** Roland Dobrushin,Piet Groeneboom,Michel Ledoux,2006-11-13 **Ergodic Theory** Cesar E. Silva,Alexandre I. Danilenko,2023-07-31 This volume in the Encyclopedia of Complexity and Systems Science Second Edition covers recent developments in classical areas of ergodic theory including the asymptotic properties of measurable dynamical systems spectral theory entropy ergodic theorems joinings isomorphism theory recurrence nonsingular systems It enlightens connections of ergodic theory with symbolic dynamics topological dynamics smooth dynamics combinatorics number theory pressure and equilibrium states fractal geometry chaos In addition the new edition includes dynamical systems of probabilistic origin ergodic aspects of Sarnak s conjecture translation flows on translation surfaces complexity and classification of measurable systems operator approach to asymptotic properties interplay with operator algebras

Workshop on Branching Processes and Their Applications Miguel González,Inés M. Puerto,Rodrigo Martínez,Manuel Molina,Manuel Mota,Alfonso Ramos,2010-03-02 One of the charms of mathematics is the contrast between its generality and its applicability to concrete even everyday problems Branching processes are typical in this Their niche of mathematics is the abstract pattern of reproduction sets of individuals changing size and composition through their members reproducing in other words what Plato might have called the pure idea behind demography population biology cell kinetics molecular replication or nuclear ssion had he known these scienti c elds Even in the performance of algorithms for sorting and classi cation there is an inkling of the same pattern In special cases general properties of the abstract ideal then interact with the physical or biological or whatever properties at hand But the population or bran ing pattern is strong it tends to dominate

and here lies the reason for the extreme usefulness of branching processes in diverse applications Branching is a clean and beautiful mathematical pattern with an intellectually challenging intrinsic structure and it pervades the phenomena it underlies **Barcelona Seminar on Stochastic Analysis** Nualart,Sanz Sole,2012-12-06 During the of Fall 1991 The Centre de Recerca Matematica a research institute sponsored by the Institut d Estudis Catalans devoted a quarter to the study of stochastic analysis Prominent workers in this field visited the Center from all over the world for periods ranging from a few days to several weeks To take advantage of the presence in Barcelona of so many special ists in stochastic analysis we organized a workshop on the subject in Sant Feliu de Guixols Girona that provided an opportunity for them to ex change information and ideas about their current work Topics discussed included Analysis on the Wiener space Anticipating Stochastic Calculus and its Applications Correlation Inequalities Stochastic Flows Reflected Semimartingales and others This volume contains a refereed selection of contributions from some of the participants in this workshop We are deeply indebted to the authors of the articles for these exposi tions of their valuable research contributions We also would like to thank all the referees for their helpful advice in making the volume a reflection of the dynamic interchange that characterized the workshop The success of the Seminar was due essentially to the enthusiasm and stimulating discus sions of all the participants in an informal and pleasant atmosphere To all of them our warm gratitude *Recent Progress and Modern Challenges in Applied Mathematics, Modeling and Computational Science* Roderick Melnik,Roman Makarov,Jacques Belair,2017-09-05 This volume is an excellent resource for professionals in various areas of applications of mathematics modeling and computational science It focuses on recent progress and modern challenges in these areas The volume provides a balance between fundamental theoretical and applied developments emphasizing the interdisciplinary nature of modern trends and detailing state of the art achievements in Applied Mathematics Modeling and Computational Science The chapters have been authored by international experts in their respective fields making this book ideal for researchers in academia practitioners and graduate students It can also serve as a reference in the diverse selected areas of applied mathematics modelling and computational sciences and is ideal for interdisciplinary collaborations Three-Dimensional Flows Vítor Araújo,Maria José Pacifico,2010-06-10 In this book the authors present the elements of a general theory for flows on three dimensional compact boundaryless manifolds encompassing flows with equilibria accumulated by regular orbits The book aims to provide a global perspective of this theory and make it easier for the reader to digest the growing literature on this subject This is not the first book on the subject of dynamical systems but there are distinct aspects which together make this book unique Firstly this book treats mostly continuous time dynamical systems instead of its discrete counterpart exhaustively treated in some other texts Secondly this book treats all the subjects from a mathematical perspective with proofs of most of the results included Thirdly this book is meant to be an advanced graduate textbook and not just a reference book or monograph on the subject This aspect is reflected in the way the cover material is presented with careful

and complete proofs and precise references to topics in the book **IUTAM Symposium on Nonlinear Stochastic Dynamics** N. Sri Namachchivaya,Y.K. Lin,2012-12-06 Non linear stochastic systems are at the center of many engineering disciplines and progress in theoretical research had led to a better understanding of non linear phenomena This book provides information on new fundamental results and their applications which are beginning to appear across the entire spectrum of mechanics The outstanding points of these proceedings are Coherent compendium of the current state of modelling and analysis of non linear stochastic systems from engineering applied mathematics and physics point of view Subject areas include Multiscale phenomena stability and bifurcations control and estimation computational methods and modelling For the Engineering and Physics communities this book will provide first hand information on recent mathematical developments The applied mathematics community will benefit from the modelling and information on various possible applications **Modern Theory of Dynamical Systems** Anatole Katok,Yakov Pesin,Federico Rodriguez Hertz,2017-06-19 This volume is a tribute to one of the founders of modern theory of dynamical systems the late Dmitry Victorovich Anosov It contains both original papers and surveys written by some distinguished experts in dynamics which are related to important themes of Anosov s work as well as broadly interpreted further crucial developments in the theory of dynamical systems that followed Anosov s original work Also included is an article by A Katok that presents Anosov s scientific biography and a picture of the early development of hyperbolicity theory in its various incarnations complete and partial uniform and nonuniform **Autonomous Systems: Developments and Trends** Herwig Unger,Kyandoghere Kyamaky,Janusz Kacprzyk,2011-11-22 The Workshops on Autonomous Systems emanated from a gathering with the doctoral students of just three chairs at Fernuniversit t in Hagen which we organise twice per year for a number of years now Their purpose is to discuss on going research and to create a community spirit Furthermore they serve as a means of structuring the students research processes The workshop has grown and matured in several respects The doctoral students presenting their work do not come from a single university anymore but from three Besides them and their supervisors also other scientists became interested in the event and contribute to its programme Following the model of Advanced Study Institutes they are available on the premises for relaxed informal discussions outside the formal sessions Finally with the co sponsorship of Gesellschaft f r Informatik the German Computer Society and this surprisingly comprehensive volume of contributions published by Springer Verlag the workshop turned into a visible scientific event Discrete and Continuous Dynamical Systems ,2008 Metastability Anton Bovier,Frank den Hollander,2016-02-11 This monograph provides a concise presentation of a mathematical approach to metastability a wide spread phenomenon in the dynamics of non linear systems physical chemical biological or economic subject to the action of temporal random forces typically referred to as noise based on potential theory of reversible Markov processes The authors shed new light on the metastability phenomenon as a sequence of visits of the path of the process to different metastable sets and focuses on the precise analysis of the respective hitting probabilities

and hitting times of these sets The theory is illustrated with many examples ranging from finite state Markov chains finite dimensional diffusions and stochastic partial differential equations via mean field dynamics with and without disorder to stochastic spin flip and particle hop dynamics and probabilistic cellular automata unveiling the common universal features of these systems with respect to their metastable behaviour The monograph will serve both as comprehensive introduction and as reference for graduate students and researchers interested in metastability

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