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# EXPONENTIAL STABILITY OF STOCHASTIC DIFFERENTIAL EQUATIONS

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Xuerong Mao

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EXPONENTIAL STABILITY OF  
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Mao



# Exponential Stability Of Stochastic Differential Equations

**D. Kannan, V. Lakshmikantham**



## **Exponential Stability Of Stochastic Differential Equations:**

Exponential Stability of Stochastic Differential Equations Xuerong Mao, 1994-05-02 This work presents a systematic study of current developments in stochastic differential delay equations driven by nonlinear integrators detailing various exponential stabilities for stochastic differential equations and large scale systems It illustrates the practical use of stochastic stabilization stochastic destabilization stochastic flows and stochastic oscillators in numerous real world situations

*Stability of Stochastic Differential Equations in Infinite Dimensions* Yiqian Zhou, 2012 In engineering physics and economics many dynamical systems involving with stochastic components and random noise are often modeled by stochastic models The stochastic effects of these models are often used to describe the uncertainty about the operating systems Motivated by the development of analysis and theory of stochastic processes as well as the studies of natural sciences the theory of stochastic differential equations in infinite dimensional spaces evolves gradually into a branch of modern analysis Many qualitative properties of such systems have been studied in the past few decades among which investigation of stability of such systems is often regarded as the first characteristic of the dynamical systems or models In general this thesis is mainly concerned with the studies of the stability property of stochastic differential equations in Hilbert spaces Chapter 1 is an introduction to a brief history of stochastic differential equations in infinite dimensions together with an overview of the studies Chapter 2 is a presentation of preliminaries to some basic stochastic analysis In Chapter 3 we study the stability in distribution of mild solutions to stochastic delay differential equations with Poisson jumps Firstly we use approximation of strong solutions to pass on the stability of strong solutions to the mild ones Then by constructing a suitable metric between the transition probability functions of mild solutions we obtain the desired stability result under some suitable conditions In Chapter 4 we investigate the stochastic partial delay differential equations with Markovian switching and Poisson jumps By estimating the coefficients of energy equality both the exponential stability and almost sure exponential stability of energy solutions to the equations are obtained In Chapter 5 we study the relationship among strong weak and mild solutions to the stochastic functional differential equations of neutral type Finally in Chapter 6 we study the asymptotic stability of two types of equations impulsive stochastic delay differential equations with Poisson jumps and stochastic evolution equations with Poisson jumps By employing the fixed point theorem we derive the desired stability results under some criteria **Yosida**

## **Approximations of Stochastic Differential Equations in Infinite Dimensions and Applications** T. E.

Govindan, 2016-11-11 This research monograph brings together for the first time the varied literature on Yosida approximations of stochastic differential equations SDEs in infinite dimensions and their applications into a single cohesive work The author provides a clear and systematic introduction to the Yosida approximation method and justifies its power by presenting its applications in some practical topics such as stochastic stability and stochastic optimal control The theory assimilated spans more than 35 years of mathematics but is developed slowly and methodically in digestible pieces The book

begins with a motivational chapter that introduces the reader to several different models that play recurring roles throughout the book as the theory is unfolded and invites readers from different disciplines to see immediately that the effort required to work through the theory that follows is worthwhile From there the author presents the necessary prerequisite material and then launches the reader into the main discussion of the monograph namely Yosida approximations of SDEs Yosida approximations of SDEs with Poisson jumps and their applications Most of the results considered in the main chapters appear for the first time in a book form and contain illustrative examples on stochastic partial differential equations The key steps are included in all proofs especially the various estimates which help the reader to get a true feel for the theory of Yosida approximations and their use This work is intended for researchers and graduate students in mathematics specializing in probability theory and will appeal to numerical analysts engineers physicists and practitioners in finance who want to apply the theory of stochastic evolution equations Since the approach is based mainly in semigroup theory it is amenable to a wide audience including non specialists in stochastic processes

*Stochastic Differential Equations and Applications X* Mao,2007-12-30 This advanced undergraduate and graduate text has now been revised and updated to cover the basic principles and applications of various types of stochastic systems with much on theory and applications not previously available in book form The text is also useful as a reference source for pure and applied mathematicians statisticians and probabilists engineers in control and communications and information scientists physicists and economists Has been revised and updated to cover the basic principles and applications of various types of stochastic systems Useful as a reference source for pure and applied mathematicians statisticians and probabilists engineers in control and communications and information scientists physicists and economists

**Almost Sure Exponential Stability for Stochastic Partial Functional Differential Equations** Takeshi Taniguchi,1997

**Fuzzy Information and Engineering Volume 2** Bingyuan Cao,Tai-Fu Li,Cheng-Yi Zhang,2009-10-14 This book is the proceedings of the Third International Conference on Fuzzy Information and Engineering ICFIE 2009 held in the famous mountain city Chongqing in Southwestern China from September 26 29 2009 Only high quality papers are included The ICFIE 2009 built on the success of previous conferences the ICFIE 2007 Guangzhou China is a major symposium for scientists engineers and practitioners in the world to present their updated results ideas developments and applications in all areas of fuzzy information and engineering It aims to strengthen relations between industry research laboratories and universities and to create a primary symposium for world scientists in fuzzy fields as follows Fuzzy Information Fuzzy Sets and Systems Soft Computing Fuzzy Engineering Fuzzy Operation Research and Management Artificial Intelligence Fuzzy Mathematics and Systems in Applications etc

**International Conference on Mathematical Sciences and Statistics 2013** Adem Kilicman,Wah June Leong,Zainidin Eshkuvatov,2014-03-16 This volume is devoted to the most recent discoveries in mathematics and statistics It also serves as a platform for knowledge and information exchange between experts from industrial and academic sectors The book covers a wide range of topics

including mathematical analyses probability statistics algebra geometry mathematical physics wave propagation stochastic processes ordinary and partial differential equations boundary value problems linear operators cybernetics and number and functional theory It is a valuable resource for pure and applied mathematicians statisticians engineers and scientists

**Lyapunov Exponents** Ludwig Arnold, Hans Crauel, Jean-Pierre Eckmann, 2006-11-14 Since the predecessor to this volume LNM 1186 Eds L Arnold V Wihstutz appeared in 1986 significant progress has been made in the theory and applications of Lyapunov exponents one of the key concepts of dynamical systems and in particular pronounced shifts towards nonlinear and infinite dimensional systems and engineering applications are observable This volume opens with an introductory survey article Arnold Crauel followed by 26 original fully refereed research papers some of which have in part survey character From the Contents L Arnold H Crauel Random Dynamical Systems I Ya Goldscheid Lyapunov exponents and asymptotic behaviour of the product of random matrices Y Peres Analytic dependence of Lyapunov exponents on transition probabilities O Knill The upper Lyapunov exponent of  $S^1 \times \mathbb{R}$  cocycles Discontinuity and the problem of positivity Yu D Latushkin A M Stepin Linear skew product flows and semigroups of weighted composition operators P Baxendale Invariant measures for nonlinear stochastic differential equations Y Kifer Large deviations for random expanding maps P Thieullen Generalisation du theoreme de Pesin pour l'entropie S T Ariaratnam W C Xie Lyapunov exponents in stochastic structural mechanics F Colonius W Kliemann Lyapunov exponents of control flows

*Asymptotic Analysis of Unstable Solutions of Stochastic Differential Equations* Grigorij Kulinich, Svitlana Kushnirenko, Yuliya Mishura, 2020-04-29 This book is devoted to unstable solutions of stochastic differential equations SDEs Despite the huge interest in the theory of SDEs this book is the first to present a systematic study of the instability and asymptotic behavior of the corresponding unstable stochastic systems The limit theorems contained in the book are not merely of purely mathematical value rather they also have practical value Instability or violations of stability are noted in many phenomena and the authors attempt to apply mathematical and stochastic methods to deal with them The main goals include exploration of Brownian motion in environments with anomalies and study of the motion of the Brownian particle in layered media A fairly wide class of continuous Markov processes is obtained in the limit It includes Markov processes with discontinuous transition densities processes that are not solutions of any It s SDEs and the Bessel diffusion process The book is self contained with presentation of definitions and auxiliary results in an Appendix It will be of value for specialists in stochastic analysis and SDEs as well as for researchers in other fields who deal with unstable systems and practitioners who apply stochastic models to describe phenomena of instability

**Stochastic Differential Equations with Markovian Switching** Xuerong Mao, Chenggui Yuan, 2006 This textbook provides the first systematic presentation of the theory of stochastic differential equations with Markovian switching It presents the basic principles at an introductory level but emphasizes current advanced level research trends The material takes into account all the features of Ito equations Markovian switching interval systems and time lag The theory developed

is applicable in different and complicated situations in many branches of science and industry

**Stochastics And Quantum Mechanics** Ian M Davies, Aubrey Truman, 1992-05-30 This volume contains papers which were presented at a series of short meetings collectively entitled Stochastics and Quantum Mechanics held in Swansea over the summer of 1990 Also included are some papers not presented at the meetings but in the same subject area authored by attendees or their co workers The topics covered include diffusion processes stochastic mechanics statistical mechanics large deviations and Wiener Hopf theory The papers are in the main immediately accessible to workers in the field and provide a reasonable coverage of current areas of interest centering around uses of probabilistic methods in mathematical physics

*Handbook of Stochastic Analysis and Applications* D. Kannan, V. Lakshmikantham, 2001-10-23 An introduction to general theories of stochastic processes and modern martingale theory The volume focuses on consistency stability and contractivity under geometric invariance in numerical analysis and discusses problems related to implementation simulation variable step size algorithms and random number generation

*Recent Advances in Delay Differential and Difference Equations* Ferenc Hartung, Mihály Pituk, 2014-08-22 Delay differential and difference equations serve as models for a range of processes in biology physics engineering and control theory In this volume the participants of the International Conference on Delay Differential and Difference Equations and Applications Balatonf red Hungary July 15 19 2013 present recent research in this quickly evolving field The papers relate to the existence asymptotic and oscillatory properties of the solutions stability theory numerical approximations and applications to real world phenomena using deterministic and stochastic discrete and continuous dynamical systems

*Advanced Numerical Methods in Applied Sciences* Luigi Brugnano, Felice Iavernaro, 2019-06-20 The use of scientific computing tools is currently customary for solving problems at several complexity levels in Applied Sciences The great need for reliable software in the scientific community conveys a continuous stimulus to develop new and better performing numerical methods that are able to grasp the particular features of the problem at hand This has been the case for many different settings of numerical analysis and this Special Issue aims at covering some important developments in various areas of application

*Advances in Neural Networks-issn 2006* Jun Wang, 2006-05-17 This is Volume I of a three volume set constituting the refereed proceedings of the Third International Symposium on Neural Networks ISSN 2006 616 revised papers are organized in topical sections on neurobiological analysis theoretical analysis neurodynamic optimization learning algorithms model design kernel methods data preprocessing pattern classification computer vision image and signal processing system modeling robotic systems transportation systems communication networks information security fault detection financial analysis bioinformatics biomedical and industrial applications and more

*Positive Systems* James Lam, Yun Chen, Xingwen Liu, Xudong Zhao, Junfeng Zhang, 2019-01-12 This book presents high quality original contributions on positive systems including those with positivity in compartmental switched systems Markovian jump systems Boolean networks interval observer design fault detection and delay systems It comprises a

selection of the best papers from POSTA 2018 the 6th International Conference on Positive Systems which was held in Hangzhou China in August 2018 The POSTA conference series represents a targeted response to the growing need for research that reports on and critically discusses a wide range of topics concerning the theory and applications of positive systems The book offers valuable insights for researchers in applied mathematics control theory and their applications

**Advances in Intelligent Computing** De-Shuang Huang,Xiao-Ping Zhang,Guang-Bin Huang,2005-09-16 The International Conference on Intelligent Computing ICIC was set up as an annual forum dedicated to emerging and challenging topics in the various aspects of advances in computational intelligence fields such as artificial intelligence machine learning bioinformatics and computational biology etc The goal of this conference was to bring together researchers from academia and industry as well as practitioners to share ideas problems and solutions related to the multifaceted aspects of intelligent computing This book constitutes the proceedings of the International Conference on Intelligent Computing ICIC 2005 held in Hefei Anhui China during August 23 26 2005 ICIC 2005 received over 2000 submissions from authors in 39 countries and regions Based on rigorous peer reviews the Program Committee selected 563 high quality papers for presentation at ICIC 2005 of these 215 papers were published in this book organized into 9 categories and the other 348 papers were published in five international journals The organizers of ICIC 2005 made great efforts to ensure the success of this conference We here thank the members of the ICIC 2005 Advisory Committee for their guidance and advice the members of the Program Committee and the referees for reviewing the papers and the members of the Publication Committee for checking and compiling the papers We would also like to thank the publisher Springer for their support in publishing the proceedings in the Lecture Notes in Computer Science series Particularly we would like to thank all the authors for contributing their papers

**Trends In Probability And Related Analysis - Proceedings Of Sap'96** N Kono,Narn-rueih Shieh,1997-10-31 This proceedings volume reflects the current interest especially of researchers in the Asia Pacific region in probability theory and related theory of analysis and statistics It contains the papers of the two survey speakers and of some other speakers and researchers It brings out the theme of SAP an international meeting on some aspects of probability analysis and their interplay

**Monotone Random Systems Theory and Applications** Igor Chueshov,2002-04-10 The aim of this book is to present a recently developed approach suitable for investigating a variety of qualitative aspects of order preserving random dynamical systems and to give the background for further development of the theory The main objects considered are equilibria and attractors The effectiveness of this approach is demonstrated by analysing the long time behaviour of some classes of random and stochastic ordinary differential equations which arise in many applications

**Long-Range Dependent Processes: Theory and Applications** Ming Li,Carlo Cattani,2022-12-05

## The Enigmatic Realm of **Exponential Stability Of Stochastic Differential Equations**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Exponential Stability Of Stochastic Differential Equations** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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