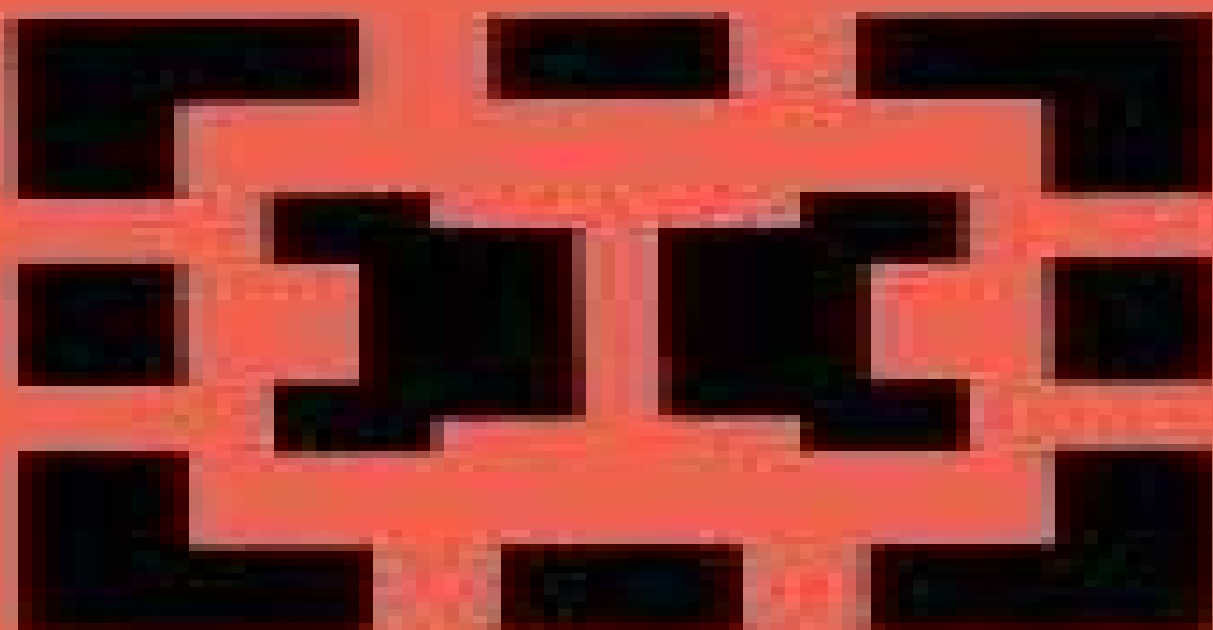


Yuri I. Izumi and P. S. Landa

# Stochastic and Chaotic Oscillations



# Stochastic And Chaotic Oscillations

**Daniel S. Levine, Vincent R.  
Brown, Timothy Shirey**



## **Stochastic And Chaotic Oscillations:**

*Stochastic and Chaotic Oscillations* Juri I. Neimark, P.S Landa, 2012-12-06 This volume is devoted to stochastic and chaotic oscillations in dissipative systems Chapter 1 deals with mathematical models of deterministic discrete and distributed dynamical systems In Chapter 2 the two basic trends of order and chaos are considered The next three chapters describe stochasticity transformers amplifiers and generators turbulence and phase portraits of steady state motions and their bifurcations Chapter 6 treats the topics of stochastic and chaotic attractors and this is followed by two chapters dealing with routes to chaos and the quantitative characteristics of stochastic and chaotic motions Finally Chapter 9 which comprises more than one third of the book presents examples of systems having chaotic and stochastic motions drawn from mechanical physical chemical and biological systems The book concludes with a comprehensive bibliography For mathematicians physicists chemists and biologists interested in stochastic and chaotic oscillations in dynamical systems

*Nonlinear Dynamics of Chaotic and Stochastic Systems* Vadim S. Anishchenko, Vladimir Astakhov, Alexander Neiman, Tatjana Vadivasova, Lutz Schimansky-Geier, 2007-07-20 We present an improved and enlarged version of our book *Nonlinear Dynamics of Chaotic and Stochastic Systems* published by Springer in 2002 Basically the new edition of the book corresponds to its first version While preparing this edition we made some clarifications in several sections and also corrected the misprints noticed in some formulas Besides three new sections have been added to Chapter 2 They are Statistical Properties of Dynamical Chaos Effects of Synchronization in Extended Self Sustained Oscillatory Systems and Synchronization in Living Systems The sections indicated reflect the most interesting results obtained by the authors after publication of the first edition We hope that the new edition of the book will be of great interest for a wide section of readers who are already specialists or those who are beginning research in the fields of nonlinear oscillation and wave theory dynamical chaos synchronization and stochastic process theory Saratov Berlin and St Louis V S Anishchenko November 2006 A B Neiman T E Vadiavasova V V Astakhov L Schimansky Geier

**Preface to the First Edition** This book is devoted to the classical background and to contemporary results on nonlinear dynamics of deterministic and stochastic systems Considerable attention is given to the effects of noise on various regimes of dynamic systems with noise induced order On the one hand there exists a rich literature of excellent books on nonlinear dynamics and chaos on the other hand there are many marvelous monographs and textbooks on the statistical physics of far from equilibrium and stochastic processes This book is an attempt to combine the approach of nonlinear dynamics based on the deterministic evolution equations with the approach of statistical physics based on stochastic or kinetic equations One of our main aims is to show the important role of noise in the organization and properties of dynamic regimes of nonlinear dissipative systems

**Nonlinear Oscillations and Waves in Dynamical Systems** P.S Landa, 2013-06-29 A rich variety of books devoted to dynamical chaos solitons self organization has appeared in recent years These problems were all considered independently of one another Therefore many of readers of these books do not suspect that the problems discussed are divisions of a great

generalizing science the theory of oscillations and waves This science is not some branch of physics or mechanics it is a science in its own right It is in some sense a meta science In this respect the theory of oscillations and waves is closest to mathematics In this book we call the reader s attention to the present day theory of non linear oscillations and waves Oscillatory and wave processes in the systems of diversified physical natures both periodic and chaotic are considered from a unified point of view The relation between the theory of oscillations and waves non linear dynamics and synergetics is discussed One of the purposes of this book is to convince reader of the necessity of a thorough study popular branches of the theory of oscillations and waves and to show that such science as non linear dynamics synergetics soliton theory and so on are in fact constituent parts of this theory The primary audiences for this book are researchers having to do with oscillatory and wave processes and both students and post graduate students interested in a deep study of the general laws and applications of the theory of oscillations and waves Oscillations and Waves M.I Rabinovich,D.I.

Trubetskov,2012-12-06 **Oscillatory Neural Networks** Margarita G. Kuzmina,Eduard A. Manykin,Evgeny S. Grichuk,2013-11-27 Understanding of the human brain functioning currently represents a challenging problem In contrast to usual serial computers and complicated hierarchically organized artificial man made systems decentralized parallel and distributed information processing principles are inherent to the brain Besides adaptation and learning which play a crucial role in brain functioning oscillatory neural activity synchronization and resonance accompany the brain work Neural like oscillatory network models designed by the authors for image processing allow to elucidate the capabilities of dynamical synchronization based types of image processing presumably exploited by the brain The oscillatory network models studied by means of computer modeling and qualitative analysis are presented and discussed in the book Some other problems of parallel distributed information processing are also considered such as a recall process from network memory for large scale recurrent associative memory neural networks performance of oscillatory networks of associative memory dynamical oscillatory network methods of image processing with synchronization based performance optical parallel information processing based on the nonlinear optical phenomenon of photon echo and modeling random electric fields of quasi monochromatic polarized light beams using systems of superposed stochastic oscillators This makes the book highly interesting to researchers dealing with various aspects of parallel information processing **Nonlinear Dynamics of**

**Chaotic and Stochastic Systems** Vadim S. Anishchenko,Vladimir Astakhov,Alexander Neiman,Tatjana Vadivasova,Lutz Schimansky-Geier,2003-01-22 Contains both an exhaustive introduction to the subject as well as a detailed discussion of fundamental problems and research results Despite the unified presentation of the subject care has been taken to present the material in largely self contained chapters **Leonid Isaakovich Mandelstam** Alexander Pechenkin,2013-10-05 This biography of the famous Soviet physicist Leonid Isaakovich Mandelstam 1889 1944 who became a Professor at Moscow State University in 1925 describes his contributions to both physics and technology as well as discussing the scientific community

which formed around him usually called the Mandelstam school Mandelstam's life story is thereby placed in its proper cultural context The following more general issues are taken under consideration the impact of German scientific culture on Russian science the problems and fates of Russian intellectuals during the revolutionary and post revolutionary years the formation of the Soviet Academy of Sciences and transformation of the system of higher education in the USSR during the 1920 s and 1930 s The author shows that Mandelstam's fundamental writings and his lectures notes allow to reconstruct his philosophy of science and his approach to the social and ethical functions of science and science education That reconstruction is enhanced through extensive use of hitherto unpublished archival material as well as the transcripts of personal interviews conducted by the author

**Applied Mechanics Reviews**, 1992 *Mathematical Methods in Contemporary Chemistry* Kuchanov, 1996-03-20

**Nonlinear and Parametric Phenomena** Vladimir Damgov, 2004 The book comprises a broad panorama of phenomena occurring in four major classes of radiophysical and mechanical systems linear nonlinear parametric and nonlinear parametric An analytical technique for the broad circle of issues under consideration is developed It is presented in a user friendly form allowing its further direct application in research practices Analytical methods are presented for investigating modulation parametric and nonlinear systems oscillating systems with periodic and almost periodic time dependent parameters effects of adaptive self organization in coupled resonance systems and oscillating systems under the action of external forces nonlinear with respect to the coordinates of excited systems Of an interdisciplinary nature this volume can serve as a handbook for developing lecture courses such as Fundamentals of Nonlinear Dynamics and Theory of Nonlinear Oscillations Theory of Nonlinear Circuits and Systems Fundamentals of Radiophysics and Electronics Theory of Signals and Theoretical Radiophysics Theoretical Mechanics and Electrodynamics

**Recent Developments and New Direction in Soft-Computing Foundations and Applications** Lotfi A. Zadeh, Ali M. Abbasov, Ronald R. Yager, Shahnaz N. Shahbazova, Marek Z. Reformat, 2016-05-25 This book reports on advanced theories and cutting edge applications in the field of soft computing The individual chapters written by leading researchers are based on contributions presented during the 4th World Conference on Soft Computing held May 25-27 2014 in Berkeley The book covers a wealth of key topics in soft computing focusing on both fundamental aspects and applications The former include fuzzy mathematics type 2 fuzzy sets evolutionary based optimization aggregation and neural networks while the latter include soft computing in data analysis image processing decision making classification series prediction economics control and modeling By providing readers with a timely authoritative view on the field and by discussing thought provoking developments and challenges the book will foster new research directions in the diverse areas of soft computing

*Chaotic Oscillations in Mechanical Systems* Tomasz Kapitaniak, 1991 *Best of Soviet Semiconductor Physics and Technology* Mikhail Levinshtein, Michael Shur, 1991-02 Culled from the thousands of papers published in American Institute of

*Mathematical Methods in Queuing Theory* Vladimir V. Kalashnikov, 1993-12-31 The material of this book is based on

several courses which have been delivered for a long time at the Moscow Institute for Physics and Technology Some parts have formed the subject of lectures given at various universities throughout the world Freie Universitat of Berlin Chalmers University of Technology and the University of Goteborg University of California at Santa Barbara and others The subject of the book is the theory of queues This theory as a mathematical discipline begins with the work of A Erlang who examined a model of a telephone station and obtained the famous formula for the distribution of the number of busy lines which is named after him Queueing theory has been applied to the study of numerous models emergency aid road traffic computer systems etc Besides it has lead to several related disciplines such as reliability and inventory theories which deal with similar models Nevertheless many parts of the theory of queues were developed as a pure science with no practical applications The aim of this book is to give the reader an insight into the mathematical methods which can be used in queueing theory and to present examples of solving problems with the help of these methods Of course the choice of the methods is quite subjective Thus many prominent results have not even been mentioned

**Probability Theory, Random Processes and Mathematical Statistics** Y. Rozanov, 2012-12-06 Probability Theory Theory of Random Processes and Mathematical Statistics are important areas of modern mathematics and its applications They develop rigorous models for a proper treatment for various random phenomena which we encounter in the real world They provide us with numerous tools for an analysis prediction and ultimately control of random phenomena Statistics itself helps with choice of a proper mathematical model e g by estimation of unknown parameters on the basis of statistical data collected by observations This volume is intended to be a concise textbook for a graduate level course with carefully selected topics representing the most important areas of modern Probability Random Processes and Statistics The first part Ch 1 3 can serve as a self contained elementary introduction to Probability Random Processes and Statistics It contains a number of relatively simple and typical examples of random phenomena which allow a natural introduction of general structures and methods Only knowledge of elements of real complex analysis linear algebra and ordinary differential equations is required here The second part Ch 4 6 provides a foundation of Stochastic Analysis gives information on basic models of random processes and tools to study them Here a familiarity with elements of functional analysis is necessary Our intention to make this course fast moving made it necessary to present important material in a form of examples

**Computational Systems Biology** Andres Kriete, Roland Eils, 2013-11-26 This comprehensively revised second edition of Computational Systems Biology discusses the experimental and theoretical foundations of the function of biological systems at the molecular cellular or organismal level over temporal and spatial scales as systems biology advances to provide clinical solutions to complex medical problems In particular the work focuses on the engineering of biological systems and network modeling Logical information flow aids understanding of basic building blocks of life through disease phenotypes Evolved principles gives insight into underlying organizational principles of biological organizations and systems processes governing functions such as adaptation or response patterns

Coverage of technical tools and systems helps researchers to understand and resolve specific systems biology problems using advanced computation Multi scale modeling on disparate scales aids researchers understanding of dependencies and constraints of spatio temporal relationships fundamental to biological organization and function *Reviews in Molecular and Cellular Oncology* Daniel P. Bezerra, Kevin Ni, Maoshan Chen, 2023-07-06 *Bifurcations and Chaos in Piecewise-smooth Dynamical Systems* Zhanybai T. Zhusubaliyev, Erik Mosekilde, 2003 Technical problems often lead to differential equations with piecewise smooth right hand sides Problems in mechanical engineering for instance violate the requirements of smoothness if they involve collisions finite clearances or stick-slip phenomena *Oscillations in Neural Systems* Daniel S. Levine, Vincent R. Brown, Timothy Shirey, 1999-09-01 This book is the fourth in a series based on conferences sponsored by the Metroplex Institute for Neural Dynamics MIND an interdisciplinary organization of Dallas Fort Worth area neural network professionals in both academia and industry This topic was chosen as the focus for this special issue because of the increasing interest by neuroscientists and psychologists in both rhythmic and chaotic activity patterns observed in the nervous system Neither the mathematical structure of neural oscillations nor their functional significance is precisely understood There are a great many open problems in both the structure and function of neural oscillations whether rhythmic chaotic or a combination of the two and many of these problems are dealt with in the chapters of this book **Unbiased Estimators and Their Applications** V.G. Voinov, M.S. Nikulin, 2012-12-06 Statistical inferential methods are widely used in the study of various physical biological social and other phenomena Parametric estimation is one such method Although there are many books which consider problems of statistical point estimation this volume is the first to be devoted solely to the problem of unbiased estimation It contains three chapters dealing respectively with the theory of point statistical estimation techniques for constructing unbiased estimators and applications of unbiased estimation theory These chapters are followed by a comprehensive appendix which classifies and lists in the form of tables all known results relating to unbiased estimators of parameters for univariate distributions About one thousand minimum variance unbiased estimators are listed The volume also contains numerous examples and exercises This volume will serve as a handbook on point unbiased estimation for researchers whose work involves statistics It can also be recommended as a supplementary text for graduate students

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