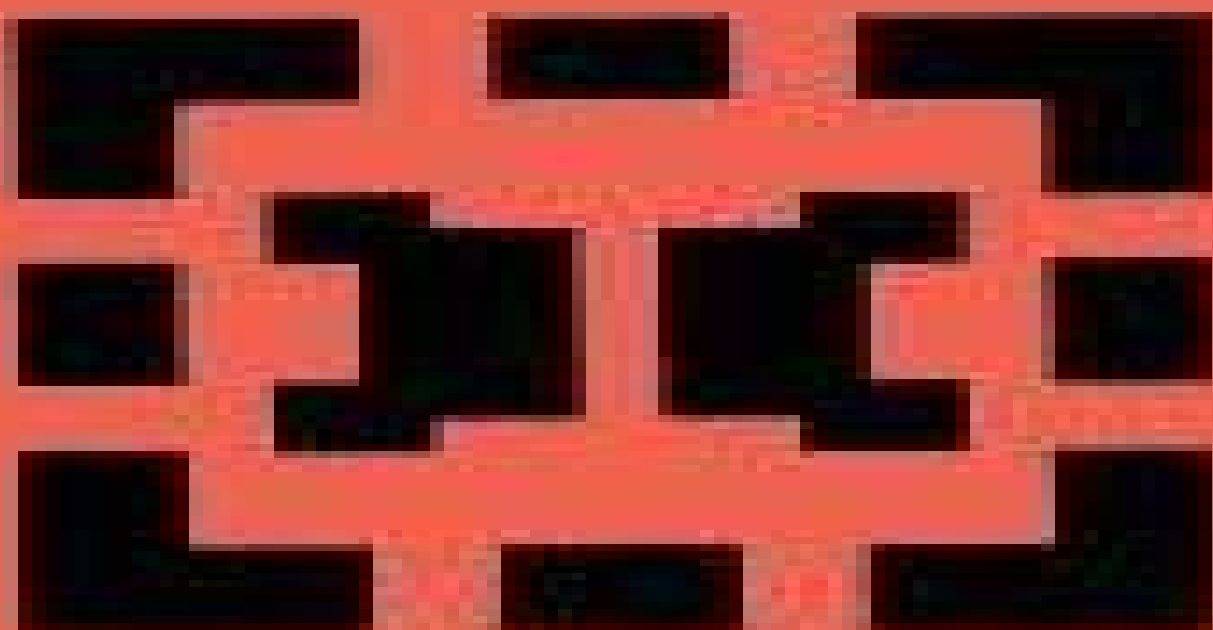


Yuri I. Izrael and P. S. Landa

# Stochastic and Chaotic Oscillations



# Stochastic And Chaotic Oscillations

**Tomasz Kapitaniak**



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**Stochastic and Chaotic Oscillations** Yuri 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 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

**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

Stochastic Processes and Operator Calculus on Quantum Groups U. Franz, René Schott, 2013-03-14 This book aims to present several new developments on stochastic processes and operator calculus on quantum groups Topics which are treated include operator calculus dual representations stochastic processes and diffusions Appell polynomials and systems in connection with evolution equations Audience This volume contains introductory material for graduate students who are new to the field as well as more advanced material for specialists in probability theory algebraic structures representation theory mathematical physics and theoretical physics

*Random Fields and Stochastic Partial Differential Equations* Y.

Rozanov, 2013-04-17 This book considers some models described by means of partial differential equations and boundary conditions with chaotic stochastic disturbance In a framework of stochastic Partial Differential Equations an approach is suggested to generalize solutions of stochastic Boundary Problems The main topic concerns probabilistic aspects with applications to well known Random Fields models which are representative for the corresponding stochastic Sobolev spaces The term stochastic in general indicates involvement of appropriate random elements It assumes certain knowledge in general Analysis and Probability Hilbert space methods Schwartz distributions Fourier transform I A very general description of the main problems considered can be given as follows Suppose we are considering a random field in a region  $T \subset \mathbb{R}^d$  which is associated with a chaotic stochastic source by means of the differential equation in  $T$  A typical chaotic source can be represented by an appropriate random field with independent values i.e generalized random function  $\varphi_p(T)$   $\varphi_p \in C(T)$  with independent random variables  $\varphi_p(f)$  for any test functions  $\varphi_p$  with disjoint supports The property of having independent values implies a certain roughness of the random field which can only be treated functionally as a very irregular Schwarz

distribution With the lack of a proper development of non linear analyses for generalized functions let us limit ourselves to the 1 For related material see for example J L Lions E

**Chaotic Oscillations in Mechanical Systems** Tomasz Kapitaniak,1991

**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

**Regular and Chaotic Oscillations** Polina S. Landa,2001-04-01 This text maps out the modern theory of non linear oscillations The material is presented in a non traditional manner and emphasises the new results of the theory obtained partially by the author who is one of the leading experts in the area Among the topics are synchronization and chaotization of self oscillatory systems and the influence of weak random vibration on modification of characteristics and behaviour of the non linear systems

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