

Proceedings of the **Steklov Institute of Mathematics**

Volume 199 Issue 1 of 6 1995

Relaxation Oscillations in Mathematical Models of Ecology

A Translation of

**ТРУДЫ
МАТЕМАТИЧЕСКОГО ИНСТИТУТА
ИМЕНИ В. А. СТЕКЛОВА
ТОМ 199 1993**



American Mathematical Society

Providence, Rhode Island, USA
ISSN 0081-5438

Relaxation Oscillations In Mathematical Models Of Ecology

Judd E. Hollander



Relaxation Oscillations In Mathematical Models Of Ecology:

Relaxation Oscillations in Mathematical Models of Ecology A. I. Kolesov, I. S. Serafimovich Kolesov, 1995 This book presents for the first time a systematic exposition of techniques for constructing relaxation oscillations and methods for investigating stability properties of certain classes of systems with delay The authors bring out some of the distinctive features that have no analogues in relaxation systems of ordinary differential equations The exposition provides analysis of significant examples from biophysics mathematical ecology and quantum physics that elucidate important patterns Many unsolved problems are posed The book would appeal to researchers and specialists interested in the theory and applications of relaxation oscillations

Relaxation Oscillations in Mathematical Models of Ecology A. Yu Kolesov, Yu. S. Kolesov, 1995 Multiple Time Scale Dynamics Christian Kuehn, 2015-02-25 This book provides an introduction to dynamical systems with multiple time scales The approach it takes is to provide an overview of key areas particularly topics that are less available in the introductory form The broad range of topics included makes it accessible for students and researchers new to the field to gain a quick and thorough overview The first of its kind this book merges a wide variety of different mathematical techniques into a more unified framework The book is highly illustrated with many examples and exercises and an extensive bibliography The target audience of this book are senior undergraduates graduate students as well as researchers interested in using the multiple time scale dynamics theory in nonlinear science either from a theoretical or a mathematical modeling perspective *Some Questions in the Theory of Oscillations and the Theory of Optimal Control* R. V. Gamkrelidze, 1993 This book contains two fundamental papers The first is in essence a short monograph devoted to the theory of periodic motions in singularly perturbed systems The second deals with structural properties of the solutions of a system having infinitely many switchings on a finite time interval to Hamiltonian systems with discontinuous right hand side *Asymptotic Representation of Relaxation Oscillations in Lasers* Elena V. Grigorieva, Sergey A. Kaschenko, 2016-11-09 In this book we analyze relaxation oscillations in models of lasers with nonlinear elements controlling light dynamics The models are based on rate equations taking into account periodic modulation of parameters optoelectronic delayed feedback mutual coupling between lasers intermodal interaction and other factors With the aim to study relaxation oscillations we present the special asymptotic method of integration for ordinary differential equations and differential difference equations As a result they are reduced to discrete maps Analyzing the maps we describe analytically such nonlinear phenomena in lasers as multistability of large amplitude relaxation cycles bifurcations of cycles controlled switching of regimes phase synchronization in an ensemble of coupled systems and others The book can be fruitful for students and technicians in nonlinear laser dynamics and in differential equations Mathematical Reviews , 2008 **Asymptotic Methods for Relaxation Oscillations and Applications** Johan Grasman, 2012-12-06 In various fields of science notably in physics and biology one is confronted with periodic phenomena having a remarkable temporal structure it is as if certain systems are periodically reset in an initial state

A paper of Van der Pol in the Philosophical Magazine of 1926 started up the investigation of this highly nonlinear type of oscillation for which Van der Pol coined the name relaxation oscillation. The study of relaxation oscillations requires a mathematical analysis which differs strongly from the well known theory of almost linear oscillations. In this monograph the method of matched asymptotic expansions is employed to approximate the periodic orbit of a relaxation oscillator. As an introduction in chapter 2 the asymptotic analysis of Van der Pol's equation is carried out in all detail. The problem exhibits all features characteristic for a relaxation oscillation. From this case study one may learn how to handle other or more generally formulated relaxation oscillations. In the survey special attention is given to biological and chemical relaxation oscillators. In chapter 2 a general definition of a relaxation oscillation is formulated.

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.

[Analysis and Optimality of Oscillations](#)
 Subbarao Varigonda, 2001

Mathematics of Continuous and Discrete Dynamical Systems
 Abba B. Gumel, 2014-06-18

This volume contains the proceedings of the AMS Special Session on Nonstandard Finite Difference Discretizations and Nonlinear Oscillations in honor of Ronald Mickens's 70th birthday held January 9-10, 2013 in San Diego, CA. Included are papers on design and analysis of discrete time and continuous time dynamical systems arising in the natural and engineering sciences, in particular the design of robust nonstandard finite difference methods for solving continuous time ordinary and partial differential equation models, the analytical and numerical study of models that undergo nonlinear oscillations as well as the design of deterministic and stochastic models for epidemiological and ecological processes. Some of the specific topics covered in the book include the analysis of deterministic and stochastic SIR type models, the assessment of cost effectiveness of vaccination problems, finite difference methods for oscillatory dynamical systems including the Schrödinger equation and Brusselator system, the design of exact and elementary stable finite difference methods, the study of a two patch model with Allee effects and disease modified fitness, the study of the delay differential equation model with application to circadian rhythm and the application of some special functions in the solutions of some problems arising in the natural and engineering

sciences A notable feature of the book is the collection of some relevant open problems intended to help guide the direction of future research in the area *Dynamical Systems and Related Topics* Evgeniï Frolovich Mishchenko,1997 **Cellular and Molecular Bases of Biological Clocks** Leland N. Jr. Edmunds,2012-12-06 An intriguing class of biological periodicity consists of rhythms with about 24 hour periods occurring at every level of eukaryotic organization Progress is being made in understanding these rhythms The six chapters of this work include a brief introduction to circadian 24 hour rhythms a survey of circadian organization at the cellular level and a description of the important microorganisms that have served as experimental models for biochemical analysis Also considered are relations between cell division cycles and circadian oscillators as well as some general and theoretical aspects Where appropriate parallels are drawn to neuronal oscillators This volume will introduce and critically appraise modern chronobiology its extensive illustrations and comprehensive up to date bibliography will make it an authoritative reference *U.S. Government Research Reports* ,1964 **Chaos in Hydrology** Bellie Sivakumar,2016-11-16 This authoritative book presents a comprehensive account of the essential roles of nonlinear dynamic and chaos theories in understanding modeling and forecasting hydrologic systems This is done through a systematic presentation of 1 information on the salient characteristics of hydrologic systems and on the existing theories for their modeling 2 the fundamentals of nonlinear dynamic and chaos theories methods for chaos identification and prediction and associated issues 3 a review of the applications of chaos theory in hydrology and 4 the scope and potential directions for the future This book bridges the divide between the deterministic and the stochastic schools in hydrology and is well suited as a textbook for hydrology courses **Cumulated Index Medicus** ,1975 **Lectures in Differentiable Dynamics** Lawrence Markus,1980 Offers an exposition of the central results of Differentiable Dynamics This edition includes an Appendix reviewing the developments under five basic areas nonlinear oscillations diffeomorphisms and foliations general theory dissipative dynamics general theory conservative dynamics and chaos catastrophe and multi valued trajectories

Parabolic Equations in Biology Benoît Perthame,2015-09-09 This book presents several fundamental questions in mathematical biology such as Turing instability pattern formation reaction diffusion systems invasion waves and Fokker Planck equations These are classical modeling tools for mathematical biology with applications to ecology and population dynamics the neurosciences enzymatic reactions chemotaxis invasion waves etc The book presents these aspects from a mathematical perspective with the aim of identifying those qualitative properties of the models that are relevant for biological applications To do so it uncovers the mechanisms at work behind Turing instability pattern formation and invasion waves This involves several mathematical tools such as stability and instability analysis blow up in finite time asymptotic methods and relative entropy properties Given the content presented the book is well suited as a textbook for master level coursework **Scientific and Technical Aerospace Reports** ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA

Scientific and Technical Information Database

Diffusion and Ecological Problems: Modern Perspectives Akira

Okubo, Smon A. Levin, 2013-04-17 Surveying a wide variety of mathematical models of diffusion in the ecological context this book is written with the primary intent of providing scientists particularly physicists but also biologists with some background of the mathematics and physics of diffusion and how they can be applied to ecological problems Equally this is a specialized text book for graduates interested in mathematical ecology assuming no more than a basic knowledge of probability and differential equations Each chapter in this new edition has been substantially updated by appropriate leading researchers in the field and contains much new material covering recent developments

An Introduction to Dynamical Systems and Chaos G.C. Layek, 2015-12-01 The book discusses continuous and discrete systems in systematic and sequential approaches for all aspects of nonlinear dynamics The unique feature of the book is its mathematical theories on flow bifurcations oscillatory solutions symmetry analysis of nonlinear systems and chaos theory The logically structured content and sequential orientation provide readers with a global overview of the topic A systematic mathematical approach has been adopted and a number of examples worked out in detail and exercises have been included Chapters 1-8 are devoted to continuous systems beginning with one dimensional flows Symmetry is an inherent character of nonlinear systems and the Lie invariance principle and its algorithm for finding symmetries of a system are discussed in Chap 8 Chapters 9-13 focus on discrete systems chaos and fractals Conjugacy relationship among maps and its properties are described with proofs Chaos theory and its connection with fractals Hamiltonian flows and symmetries of nonlinear systems are among the main focuses of this book Over the past few decades there has been an unprecedented interest and advances in nonlinear systems chaos theory and fractals which is reflected in undergraduate and postgraduate curricula around the world The book is useful for courses in dynamical systems and chaos nonlinear dynamics etc for advanced undergraduate and postgraduate students in mathematics physics and engineering

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