

*Stability
and Control:
Theory
Methods and
Applications
Volume 3*

Stability of Motion of Nonautonomous Systems

(Method of Limiting Equations)

**J. Kato, A.A. Martynyuk
and A.A. Shestakov**



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Continuing the strong tradition of functional analysis and stability theory for differential and integral equations already established by the previous volumes in this series this innovative monograph considers in detail the method of limiting equations constructed in terms of the Bebutov Miller Sell concept the method of comparison and Lyapunov's direct method based on scalar vector and matrix functions The stability of abstract compacted and uniform dynamic processes dispersed systems and evolutionary equations in Banach space are also discussed For the first time the method first employed by Krylov and Bogolubov in their investigations of oscillations in almost linear systems is applied to a new field that of the stability problem of systems with small parameters This important development should facilitate the solution of engineering problems in such areas as orbiting satellites rocket motion high speed vehicles power grids and nuclear reactors

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techniques were described and applied to a variety of problems The courses took place during the C I M E Session Stability and Bifurcation Problems for Non Autonomous Differential Equations held in Cetraro Italy June 19 25 2011 Anna Capietto and Jean Mawhin lectured on nonlinear boundary value problems they applied the Maslov index and degree theoretic methods in this context Rafael Ortega discussed the theory of twist maps with nonperiodic phase and presented applications Peter Kloeden and Sylvia Novo showed how dynamical methods can be used to study the stability bifurcation properties of bounded solutions and of attracting sets for nonautonomous differential and functional differential equations The volume will be of interest to all researchers working in these and related fields

Stability and Stabilization of Nonlinear Systems with Random Structures I. Ya Kats, A.A. Martynyuk, 2002-08-22 Nonlinear systems with random structures arise quite frequently as mathematical models in diverse disciplines This monograph presents a systematic treatment of stability theory and the theory of stabilization of nonlinear systems with random structure in terms of new developments in the direct Lyapunov's method The analysis focuses on dynamic systems with random Markov parameters This high level research text is recommended for all those researching or studying in the fields of applied mathematics applied engineering and physics particularly in the areas of stochastic differential equations dynamical systems stability and control theory

Nonautonomous Dynamics David N. Cheban, 2020-01-22 This book emphasizes those topological methods of dynamical systems and theories that are useful in the study of different classes of nonautonomous evolutionary equations The content is developed over six chapters providing a thorough introduction to the techniques used in the Chapters III VI described by Chapter I II The author gives a systematic treatment of the basic mathematical theory and constructive methods for Nonautonomous Dynamics They show how these diverse topics are connected to other important parts of mathematics including Topology Functional Analysis and Qualitative Theory of Differential Difference Equations Throughout the book a nice balance is maintained between rigorous mathematics and applications ordinary differential difference equations functional differential equations and partial difference equations The primary readership includes graduate and PhD students and researchers in the field of dynamical systems and their applications control theory economic dynamics mathematical theory of climate population dynamics oscillation theory etc

Asymptotic Methods in Resonance Analytical Dynamics Eugeniu Grebenikov, Yu. A. Mitropolsky, Y.A. Ryabov, 2004-03-02 Asymptotic Methods in Resonance Analytical Dynamics presents new asymptotic methods for the analysis and construction of solutions mainly periodic and quasiperiodic of differential equations with small parameters Along with some background material and theory behind these methods the authors also consider a variety of problems and applications in nonlinear mechanics and oscillation theory The methods examined are based on two types the generalized averaging technique of Krylov Bogolubov and the numeric analytical iterations of Lyapunov Poincaré This text provides a useful source of reference for postgraduates and researchers working in this area of applied mathematics

Attractivity and Bifurcation for Nonautonomous Dynamical Systems Martin

Rasmussen,2007-06-08 Although bifurcation theory of equations with autonomous and periodic time dependence is a major object of research in the study of dynamical systems since decades the notion of a nonautonomous bifurcation is not yet established In this book two different approaches are developed which are based on special definitions of local attractivity and repulsivity It is shown that these notions lead to nonautonomous Morse decompositions **Nonlinear Problems in Aviation and Aerospace** S. Sivasundaram,2000-01-10 The study of nonlinear phenomena in aviation and aerospace includes developments in computer technology and the use of nonlinear mathematical models Nonlinearities are a feature of aircraft dynamics and flight control systems and need to respond to achieve stability and performance This multiauthor volume comprises selected papers from the confer **Stability of Differential Equations with Aftereffect** N.V. Azbelev,P.M. Simonov,2002-10-03 Stability of Differential Equations with Aftereffect presents stability theory for differential equations concentrating on functional differential equations with delay integro differential equations and related topics The authors provide background material on the modern theory of functional differential equations and introduce some new flexible methods for investigating the asymptotic behaviour of solutions to a range of equations The treatment also includes some results from the authors research group based at Perm and provides a useful reference text for graduates and researchers working in mathematical and engineering science *Dynamics of Machines with Variable Mass* L Cveticanin,2022-02-13 Designed to be a complete and integrated text on the dynamic properties of machines mechanisms and rotors with variable mass this book presents new results from investigations based on the general dynamics of systems with variable parameters The book considers both weak and strong nonlinear vibrations of these systems and chaotic phenomena are also discussed The conservation laws and adiabatic invariants for systems with variable mass are formulated and the stability and instability conditions of motion are defined Dynamics and Control George Leitmann,Firdaus E. Udwadia,A V Kryazhinskii,2020-09-10 This multi authored volume presents selected papers from the Eighth Workshop on Dynamics and Control Many of the papers represent significant advances in this area of research and cover the development of control methods including the control of dynamical systems subject to mixed constraints on both the control and state variables and the development of a control design method for flexible manipulators with mismatched uncertainties Advances in dynamic systems are presented particularly in game theoretic approaches and also the applications of dynamic systems methodology to social and environmental problems for example the concept of virtual biospheres in modeling climate change in terms of dynamical systems **Control Theory and its Applications** Roxin,1997-01-23 The general context of this book is applied to systems in n dimensional space Emphasis is placed on a general approach to control theory independent of optimization and demonstrates a novel approach by converting a given dynamical system into a control system in order to obtain a deeper understanding of its mode of action Contents of the monograph include a presentation of the basic concepts and results of control theory the typical and classical behaviour of control systems techniques for transforming dynamic systems into

control systems and the systematic approach to study control systems in applications as shown in many examples

Dynamical Systems and Control Firdaus E. Udwadia, H.I. Weber, George Leitmann, 2004-05-10 The 11th International Workshop on Dynamics and Control brought together scientists and engineers from diverse fields and gave them a venue to develop a greater understanding of this discipline and how it relates to many areas in science engineering economics and biology The event gave researchers an opportunity to investigate ideas and techniques

Stability Analysis

Martynuk, 1995-09-15 Optimal Control of the Growth of Wealth of Nations E.N. Chukwu, 2003-01-23 Students and researchers in applied mathematics and applied economics can use this introductory level graduate text It looks at the current problems of the development of the global economy by studying the dynamics of key economic variables such as gross national product interest rates employment value of capital stock prices inflation and balance of payments Validation of the model is attempted using the economic time series of several countries The constructed models explain the macroeconomic data of nations as dynamic games of pursuit which are equivalent to control problems and are used to study mathematical optimal control of the growth of the wealth of nations This invaluable reference for graduates and researchers compares the extent of government intervention in the economy with private firms to ensure the controllability of the economy

Advances in Nonlinear Dynamics

S. Sivasundaram, A.A. Martynyuk, 2023-01-06 Dedicated to Professor S Leela in recognition of her significant contribution to the field of nonlinear dynamics and differential equations this text consists of 38 papers contributed by experts from 15 countries together with a survey of Professor Leela's work The first group of papers examines stability the second process controls and the third section contains papers on various topics including solutions for new classes of systems of equations and boundary problems and proofs of basic theorems Many of the featured problems are associated with the ideas and methods proposed and developed by Professor Leela

Optimization of Linear Control Systems F A Aliev, V B Larin, 1998-11-19 The authors present analytical methods for synthesis of linear stationary and periodical optimal controlled systems and create effective computational algorithms for synthesis of optimal regulators and filters The procedures of Youla Jabr Bongiorno 1976 and Desoer Lin Murray Saeks 1980 are special cases of this procedure The monograph also includes original computational algorithms solutions of usual and generalized Lyapunov and Riccati equations polynomial matrix factorization and illustrates the effectiveness of these algorithms by examples in the field of numerical methods for optimization of linear controlled systems

Functional Differential Equations

Constantin Corduneanu, Yizeng Li, Mehran Mahdavi, 2016-03-25 Features new results and up to date advances in modeling and solving differential equations Introducing the various classes of functional differential equations Functional Differential Equations Advances and Applications presents the needed tools and topics to study the various classes of functional differential equations and is primarily concerned with the existence uniqueness and estimates of solutions to specific problems The book focuses on the general theory of functional differential equations provides the requisite mathematical background and details

the qualitative behavior of solutions to functional differential equations The book addresses problems of stability particularly for ordinary differential equations in which the theory can provide models for other classes of functional differential equations and the stability of solutions is useful for the application of results within various fields of science engineering and economics Functional Differential Equations Advances and Applications also features Discussions on the classes of equations that cannot be solved to the highest order derivative and in turn addresses existence results and behavior types Oscillatory motion and solutions that occur in many real world phenomena as well as in man made machines Numerous examples and applications with a specific focus on ordinary differential equations and functional differential equations with finite delay An appendix that introduces generalized Fourier series and Fourier analysis after periodicity and almost periodicity An extensive Bibliography with over 550 references that connects the presented concepts to further topical exploration Functional Differential Equations Advances and Applications is an ideal reference for academics and practitioners in applied mathematics engineering economics and physics The book is also an appropriate textbook for graduate and PhD level courses in applied mathematics differential and difference equations differential analysis and dynamics processes

CONSTANTIN CORDUNEANU PhD is Emeritus Professor in the Department of Mathematics at The University of Texas at Arlington USA The author of six books and over 200 journal articles he is currently Associate Editor for seven journals a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Romanian Academy and past president of the American Romanian Academy of Arts and Sciences YIZENG LI PhD is Professor in the Department of Mathematics at Tarrant County College USA He is a member of the Society for Industrial and Applied Mathematics

MEHRAN MAHDAVI PhD is Professor in the Department of Mathematics at Bowie State University USA The author of numerous journal articles he is a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Mathematical Association of America

Lyapunov Functions in Differential Games Vladislav I Zhukovskiy, 2003-01-16 A major step in differential games is determining an explicit form of the strategies of players who follow a certain optimality principle To do this the associated modification of Bellman dynamic programming problems has to be solved for some differential games this could be Lyapunov functions whose arsenal has been supplied by stability theory This approach which combines dynamic programming and the Lyapunov function method leads to coefficient criteria or ratios of the game math model parameters with which optimal strategies of the players not only exist but their analytical form can be specified In this book coefficient criteria are derived for numerous new and relevant problems in the theory of linear quadratic multi player differential games Those criteria apply when the players formulate their strategies independently non co operative games and use non Nash equilibria or when the game model recognizes noise perturbation and other uncertainties of which only their ranges are known differential games under uncertainty This text is useful for researchers engineers and students of applied mathematics control theory and the engineering sciences

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