



Stability By Liapunovs Matrix Function Method With Applications

**Anatoliy A Martynyuk, Boguslaw
Radziszewski**



Stability By Liapunovs Matrix Function Method With Applications:

Stability by Liapunov's Matrix Function Method with Applications A.A. Martynyuk, 1998-08-03 Provides a systematic study of matrix Liapunov functions incorporating new techniques for the qualitative analysis of nonlinear systems encountered in a wide variety of real world situations [Dynamics and Stability of Motion of Shock and Hybrid Systems](#) Anatoliy A. Martynyuk, Bogusław Radziszewski, Andrzej Szadkowski, 2019-04-15 Buy this book on degruyter com <https://www.degruyter.com/viewbooktoc/product/538686> *Mathematical Modelling: Selected Objects And Processes* Anatoliy A. Martynyuk, Bogusław Radziszewski, 2025-04-11 This is the first book on the problems of mathematical modelling that combines a generalised approach to the problem of mathematical modelling processes and phenomena in the real world with developing modelling methods in relation to specific objects and processes Some of the problems discussed here include the stability and bifurcation of simplified models of supply and demand and resultants of various approaches such as standardisation unification partial ordering and data packaging As well as touching upon the general principles of modelling the book studies the stability of mathematical models using the generalised direct Lyapunov method based on matrix valued auxiliary functions It has significant potential for application in the design of new moving objects nano robots manipulators drones etc and processes related to artificial intelligence multidimensional interaction of related data arrays that can be described by differential equations of different types Written by two respected specialists in the field of the qualitative theory of equations and problems of modelling real world phenomena this book is primarily targeted at specialists in the field of engineering sciences but is also suitable for graduate courses **Qualitative Methods in Nonlinear Dynamics** A.A. Martynyuk, 2001-11-05 Presents new approaches to qualitative analysis of continuous discrete time and impulsive nonlinear systems via Liapunov matrix valued functions that introduce more effective tests for solving problems of estimating the domains of asymptotic stability [Weakly Connected Nonlinear Systems](#) Anatoly Martynyuk, Larisa Chernetskaya, Vladislav Martynyuk, 2016-04-19 Weakly Connected Nonlinear Systems Boundedness and Stability of Motion provides a systematic study on the boundedness and stability of weakly connected nonlinear systems covering theory and applications previously unavailable in book form It contains many essential results needed for carrying out research on nonlinear systems of weakly connected **Qualitative Analysis of Set-Valued Differential Equations** Anatoly A. Martynyuk, 2019-04-02 The book discusses set valued differential equations defined in terms of the Hukuhara derivative Focusing on equations with uncertainty i.e. including an unknown parameter it introduces a regularization method to handle them The main tools for qualitative analysis are the principle of comparison of Chaplygin Wazhewsky developed for the scalar vector and matrix valued Lyapunov functions and the method of nonlinear integral inequalities which are used to establish existence stability or boundedness Driven by the question of how to model real processes using a set valued differential equations the book lays the theoretical foundations for further study in this area It is intended for experts working in the field of qualitative analysis

of differential and other types of equations *Integral Manifolds for Impulsive Differential Problems with Applications*
Ivanka Stamova, Gani Stamov, 2025-05-01 *Integral Manifolds for Impulsive Differential Problems with Applications* offers readers a comprehensive resource on integral manifolds for different classes of differential equations which will be of prime importance to researchers in applied mathematics engineering and physics The book offers a highly application oriented approach reviewing the qualitative properties of integral manifolds which have significant practical applications in emerging areas such as optimal control biology mechanics medicine biotechnologies electronics and economics For applied scientists this will be an important introduction to the qualitative theory of impulsive and fractional equations which will be key in their initial steps towards adopting results and methods in their research Offers a comprehensive resource of qualitative results for integral manifolds related to different classes of impulsive differential equations delayed differential equations and fractional differential equations Presents the manifestations of different constructive methods by demonstrating how these effective techniques can be applied to investigate qualitative properties of integral manifolds Discusses applications to neural networks fractional biological models models in population dynamics and models in economics of diverse fields

Decentralized Control of Complex Systems Dragoslav D. Siljak, 2013-07-24 Starting with a graph theoretic framework for structural modeling of complex systems this text presents results related to robust stabilization via decentralized state feedback Subsequent chapters explore optimization output feedback the manipulative power of graphs overlapping decompositions and the underlying inclusion principle and reliability design An appendix provides efficient graph algorithms 1991 edition *Decentralized Control of Complex Systems* S?iljak, 1991-01-28 *Decentralized Control of Complex Systems*

Stability Theory for Dynamic Equations on Time Scales Anatoly A. Martynyuk, 2016-09-22 This monograph is a first in the world to present three approaches for stability analysis of solutions of dynamic equations The first approach is based on the application of dynamic integral inequalities and the fundamental matrix of solutions of linear approximation of dynamic equations The second is based on the generalization of the direct Lyapunov's method for equations on time scales using scalar vector and matrix valued auxiliary functions The third approach is the application of auxiliary functions scalar vector or matrix valued ones in combination with differential dynamic inequalities This is an alternative comparison method developed for time continuous and time discrete systems In recent decades automatic control theory in the study of air and spacecraft dynamics and in other areas of modern applied mathematics has encountered problems in the analysis of the behavior of solutions of time continuous discrete linear and or nonlinear equations of perturbed motion In the book *Men of Mathematics* 1937 E T Bell wrote A major task of mathematics today is to harmonize the continuous and the discrete to include them in one comprehensive mathematics and to eliminate obscurity from both Mathematical analysis on time scales accomplishes exactly this This research has potential applications in such areas as theoretical and applied mechanics neurodynamics mathematical biology and finance among others **Advanced Control Techniques in Complex**

Engineering Systems: Theory and Applications Yuriy P. Kondratenko, Arkadii A. Chikrii, Vyacheslav F. Gubarev, Janusz Kacprzyk, 2019-05-24 This book presents an authoritative collection of contributions by researchers from 16 different countries Austria Chile Georgia Germany Mexico Norway P R of China Poland North Macedonia Romania Russia Spain Turkey Ukraine the United Kingdom and United States that report on recent developments and new directions in advanced control systems together with new theoretical findings industrial applications and case studies on complex engineering systems This book is dedicated to Professor Vsevolod Mykhailovych Kuntsevich an Academician of the National Academy of Sciences of Ukraine and President of the National Committee of the Ukrainian Association on Automatic Control in recognition of his pioneering works his great scientific and scholarly achievements and his years of service to many scientific and professional communities notably those involved in automation cybernetics control management and more specifically the fundamentals and applications of tools and techniques for dealing with uncertain information robustness non linearity extremal systems discrete control systems adaptive control systems and others Covering essential theories methods and new challenges in control systems design the book is not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike Its 15 chapters are grouped into four sections a fundamental theoretical issues in complex engineering systems b artificial intelligence and soft computing for control and decision making systems c advanced control techniques for industrial and collaborative automation and d modern applications for management and information processing in complex systems All chapters are intended to provide an easy to follow introduction to the topics addressed including the most relevant references At the same time they reflect various aspects of the latest research work being conducted around the world and therefore provide information on the state of the art

Stability of Motion Anatolii Andreevich Martyniuk, 2007 This volume presents stability theory for ordinary differential equations discrete systems and systems on time scale functional differential equations and uncertain systems via multicomponent Liapunov's functions The book sets out a new approach to solution of the problem of constructing Liapunov's functions for three classes of systems of equations This approach is based on the application of matrix valued function as an appropriate tool for scalar or vector Liapunov function The volume proposes an efficient solution to the problem of robust stability of linear systems In terms of hierarchical Liapunov function the dynamics of neural discrete time systems is studied and includes the case of perturbed equilibrium state

Optimal Control of Switched Systems with Application to Networked Embedded Control Systems Daniel Görge, 2012 This thesis addresses optimal control of discrete time switched linear systems with application to networked embedded control systems NECSs Part I focuses on optimal control and scheduling of discrete time switched linear systems The objective is to simultaneously design a control law and a switching scheduling law such that a cost function is minimized This optimization problem exhibits exponential complexity Taming the complexity is a major challenge Two novel methods are presented to approach this optimization problem

Receding horizon control and scheduling relies on the receding horizon principle The optimization problem is solved based on relaxed dynamic programming allowing to reduce complexity by relaxing optimality within predefined bounds The solution can be expressed as a piecewise linear PWL state feedback control law Stability is addressed via an a priori stability condition based on a terminal weighting matrix and several a posteriori stability criteria based on constructing piecewise quadratic Lyapunov functions and on utilizing the cost function as a candidate Lyapunov function Moreover a region reachability criterion is derived Periodic control and scheduling relies on periodic control theory Both offline and online scheduling are studied The optimization problem is solved based on periodic control and exhaustive search The online scheduling solution can again be expressed as a PWL state feedback control law Stability is guaranteed inherently Several methods are proposed to reduce the online complexity based on relaxation and heuristics Part II focuses on optimal control and scheduling of NECSs The NECS is modeled as a block diagonal discrete time switched linear system Various control and scheduling codesign strategies are derived based on the methods from Part I regarding the structural properties of NECSs The methods presented in Part I and II are finally evaluated in a case study

Mechanical Engineering And Control Systems - Proceedings Of 2015 International Conference (Mecs2015) Xiaolong Li, 2016-01-15 This book consists of 113 selected papers presented at the 2015 International Conference on Mechanical Engineering and Control Systems MECS2015 which was held in Wuhan China during January 23 25 2015 All accepted papers have been subjected to strict peer review by two to four expert referees and selected based on originality ability to test ideas and contribution to knowledge MECS2015 focuses on eight main areas namely Mechanical Engineering Automation Computer Networks Signal Processing Pattern Recognition and Artificial Intelligence Electrical Engineering Material Engineering and System Design The conference provided an opportunity for researchers to exchange ideas and application experiences and to establish business or research relations finding global partners for future collaborations The conference program was extremely rich profound and featured high impact presentations of selected papers and additional late breaking contributions

Theory of Sensitivity in Dynamic Systems Mansour Eslami, 2013-11-09 This book provides a comprehensive treatment of the development and present state of the theory of sensitivity of dynamic systems It is intended as a textbook and reference for researchers and scientists in electrical engineering control and information theory as well as for mathematicians The extensive and structured bibliography provides an overview of the literature in the field and points out directions for further research

Delay Systems Tomáš Vyhlídal, Jean-François Lafay, Rifat Sipahi, 2013-09-07 This volume is the first of the new series Advances in Dynamics and Delays It offers the latest advances in the research of analyzing and controlling dynamical systems with delays which arise in many real world problems The contributions in this series are a collection across various disciplines encompassing engineering physics biology and economics and some are extensions of those presented at the IFAC International Federation of Automatic Control conferences since 2011 The series is categorized in five parts covering the

main themes of the contributions Stability Analysis and Control Design Networks and Graphs Time Delay and Sampled Data Systems Computational and Software Tools Applications This volume will become a good reference point for researchers and PhD students in the field of delay systems and for those willing to learn more about the field and it will also be a resource for control engineers who will find innovative control methodologies for relevant applications from both theory and numerical analysis perspectives

Intelligent Robotics and Applications Caihua Xiong, 2008-09-29 These two volumes constitute the refereed proceedings of the First International Conference on Intelligent Robotics and Applications ICIRA 2008 held in Wuhan China in October 2008 The 265 revised full papers presented were thoroughly reviewed and selected from 552 submissions they are devoted but not limited to robot motion planning and manipulation robot control cognitive robotics rehabilitation robotics health care and artificial limb robot learning robot vision human machine interaction mobile robotics micro nano mechanical systems manufacturing automation multi axis surface machining realworld applications

The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available

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