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STABILITY BY LIAPUNOV'S MATRIX FUNCTION METHOD WITH APPLICATIONS

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Stability By Liapunovs Matrix Function Method With Applications

J. Robert,W. Midvidy

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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 comhttps www degruyter com viewbooktoc product 538686 Mathematical Modelling: Selected Objects And Processes Anatoliy A Martynyuk,Boguslaw 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 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 regularlization 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 of 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 *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 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 Anatoliĭ Andreevich Martyni͡uk,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 **Lyapunov Matrix Equation in System Stability and Control** Zoran Gajic,Muhammad Tahir Javed Qureshi,2008-01-01 This comprehensive treatment provides solutions to many engineering and mathematical problems related to the Lyapunov matrix equation with self contained chapters for easy reference The authors offer a wide variety of techniques for solving and analyzing the algebraic differential and difference Lyapunov matrix equations of continuous time and discrete time systems 1995 edition *SIAM Journal on Control and Optimization* Society for Industrial and Applied Mathematics,2006 **Electrical and Power Systems Modelling and Simulation** J. Robert,W. Midvidy,1989 **Control Abstracts** ,1966 **Vehicle, Mechatronics and Information Technologies** X.D. Yu,2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Vehicle Mechanical Engineering and Information Technology VMEIT 2013 August 17 18 2013 Zhengzhou Henan China Applied Modelling and Simulation of Technological Systems Pierre Borne,S. G. Tzafestas,International Association for Mathematics and Computers in Simulation,1987 Applied Mechanics Reviews ,1971 **Foundations of Control Engineering** ,1988 *Servomechanisms: Bulletin of Automatic and Manual Control Abstracts* ,1967 **Control Science and Technology for the Progress of Science** International Federation of Automatic Control. World Congress,1981 **Applications of Liapunov Methods in Stability** A. Halanay,V. Rasvan,2012-12-06 The year 1992 marks the centennial anniversary of publication of the celebrated monograph The General Problem of Stability of Motion written by A M Liapunov This anniversary inspires to think about the way theory and applications have developed during this century The first observation one can make is that the so called second method nowadays known as the Liapunov function method has received more attention than the first method let us also mention the study of critical cases which brought more attention recently in connection with the study of bifurcations and with nonlinear stabilization One of the reasons of popularity of the Liapunov function approach might be the fact that in many situations in science and engineering and not only in mechanics which was the main source of inspiration for the work of Liapunov natural Liapunov functions may be proposed intimately connected

with the properties of the processes It is one of the purposes of this book to advocate this idea From the mathematical viewpoint the century after the first appear ance of Liapunov s monograph has been characterized both by general izations and by refinements of Liapunov s ideas But we feel that the most spectacular progress is the understanding of the wide possibilities open for applications by the use of Stability Theory as constructed by Liapunov a century ago We have tried to show some of the ideas in this direction by start ing with our personal experience in the study of some models **Control Science and Technology for the Progress of Society** International Federation of Automatic Control. World Congress,Hajime Akashi,1982 Provides a link between the theory applications of automatic control emphasizing the latest developments practical applications Of interest to control industrial engineers operations researchers systems scientists

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