Stability and Stable Oscillations in Discrete Time Systems

Aristide Halanay and Vladimir Răsvan



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Arturo Cuomo

Stability And Stable Oscillations In Discrete Time Systems:

Stability and Stable Oscillations in Discrete Time Systems Aristide Halanay, Vladimir Rasvan, 2000-10-31 The expertise of a professional mathmatician and a theoretical engineer provides a fresh perspective of stability and stable oscillations The current state of affairs in stability theory absolute stability of control systems and stable oscillations of both periodic and almost periodic discrete systems is presented including many applications in engineering such as stability of digital filters digitally controlled thermal processes neurodynamics and chemical kinetics. This book will be an invaluable reference source for those whose work is in the area of discrete dynamical systems difference equations and control theory or applied areas Periodicities in Nonlinear Difference Equations E.A. Grove, G. Ladas, 2004-12-16 that use discrete time models Sharkovsky's Theorem Li and Yorke's period three implies chaos result and the 3x 1 conjecture are beautiful and deep results that demonstrate the rich periodic character of first order nonlinear difference equations To date however we still know surprisingly little about higher order nonlinear difference equations During the last ten years the authors of this book have been fascinated with discovering periodicities in equations of higher order which for certain values of their parameters have one of the following characteristics 1 Every solution of the equation is periodic with the same period 2 Every solution of the equation is eventually periodic with a prescribed period 3 Every solution of the equation converges to a periodic solution with the same period This monograph presents their findings along with some thought provoking questions and many open problems and conjectures worthy of investigation The authors also propose investigation of the global character of solutions of these equations for other values of their parameters and working toward a more complete picture of the global behavior of their solutions With the results and discussions it presents Periodicities in Nonlinear Difference Equations places a few more stones in the foundation of the basic theory of nonlinear difference equations Researchers and graduate students working in difference equations and discrete dynamical systems will find much to intrigue them and inspire further work in this area

Dynamics of Third-Order Rational Difference Equations with Open Problems and Conjectures Elias Camouzis,G. Ladas,2007-11-16 Extending and generalizing the results of rational equations Dynamics of Third Order Rational Difference Equations with Open Problems and Conjectures focuses on the boundedness nature of solutions the global stability of equilibrium points the periodic character of solutions and the convergence to periodic solutions including their p

Semilinear Evolution Equations and Their Applications Toka Diagana, 2018-10-23 This book which is a continuation of Almost Automorphic Type and Almost Periodic Type Functions in Abstract Spaces presents recent trends and developments upon fractional first and second order semilinear difference and differential equations including degenerate ones Various stability uniqueness and existence results are established using various tools from nonlinear functional analysis and operator theory such as semigroup methods Various applications to partial differential equations and the dynamic of populations are amply discussed This self contained volume is primarily intended for advanced undergraduate and graduate

students post graduates and researchers but may also be of interest to non mathematicians such as physicists and theoretically oriented engineers It can also be used as a graduate text on evolution equations and difference equations and their applications to partial differential equations and practical problems arising in population dynamics For completeness detailed preliminary background on Banach and Hilbert spaces operator theory semigroups of operators and almost periodic functions and their spectral theory are included as well Proceedings Of The Mathematics Conference Fathi Allen, Mohammad Saleh, Saber N Elaydi, Abid Elkhader, T Mughrabi, 2000-04-12 This volume covers topics ranging from pure and applied mathematics to pedagogical issues in mathematics There are papers in mathematical biology differential equations difference equations dynamical systems orthogonal polynomials topology calculus reform algebra and numerical analysis Most of the papers include new interesting results that are at the cutting edge of the respective subjects However there are some papers of an expository nature Form Symmetries and Reduction of Order in Difference Equations Hassan Sedaghat, 2011-05-24 Form Symmetries and Reduction of Order in Difference Equations presents a new approach to the formulation and analysis of difference equations in which the underlying space is typically an algebraic group In some problems and applications an additional algebraic or topological structure is assumed in order to define equations and obtain Almost Periodic Stochastic Processes Paul H. Bezandry, Toka Diagana, 2011-04-07 This book lays the significa foundations for a theory on almost periodic stochastic processes and their applications to various stochastic differential equations functional differential equations with delay partial differential equations and difference equations It is in part a seguel of authors recent work on almost periodic stochastic difference and differential equations and has the particularity to be the first book that is entirely devoted to almost periodic random processes and their applications. The topics treated in it range from existence uniqueness and stability of solutions for abstract stochastic difference and differential equations

Relaxed Barrier Function Based Model Predictive Control Christian Feller, 2017 In this thesis we introduce the novel concept of relaxed barrier function based model predictive control and present a comprehensive theoretical and algorithmic framework for the design analysis and implementation of relaxed barrier function based MPC approaches Instead of treating the underlying optimization as an idealized static map a key motive of the MPC results and algorithms presented in this thesis is to study the interconnected dynamics of controlled plant and iterative optimization algorithm in an integrated barrier function based framework and to analyze the resulting overall closed loop system both from a systems theoretic and algorithmic perspective One of the presented main results is a novel class of barrier function based anytime MPC algorithms that guarantee important properties of the closed loop system independently of the number of optimization algorithm iterations that are performed at each sampling step The obtained theoretical results are illustrated by various numerical examples and benchmark tests as well as by an experimental case study in which the proposed class of barrier function based MPC algorithms is applied to the predictive control of a self driving car Dynamics, Games and Science I Mauricio Matos

Peixoto, Alberto Adrego Pinto, David A. Rand, 2011-03-29 Dynamics Games and Science I and II are a selection of surveys and research articles written by leading researchers in mathematics. The majority of the contributions are on dynamical systems and game theory focusing either on fundamental and theoretical developments or on applications to modeling in biology ecomonics engineering finances and psychology. The papers are based on talks given at the International Conference DYNA 2008 held in honor of Mauricio Peixoto and David Rand at the University of Braga Portugal on September 8 12 2008. The aim of these volumes is to present cutting edge research in these areas to encourage graduate students and researchers in mathematics and other fields to develop them further.

Difference Equations, Discrete Dynamical Systems and Applications** Sorin Olaru, Jim Cushing, Saber Elaydi, René Lozi, 2024-03-01. This book presents contributions related to new research results presented at the 27th International Conference on Difference Equations and Applications ICDEA 2022 that was held at CentraleSup lec Universit Paris Saclay France under the auspices of the International Society of Difference Equations ISDE July 18 22 2022. The book aims not only to disseminate these results but to foster further advances in the fields of difference equations and discrete dynamical systems Also included are applications to economic growth modeling population dynamics epidemic modeling game theory control systems and network analysis. The target audience for the book includes Ph D students researchers educators and practitioners in these fields.

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