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Difference Equations, Discrete Dynamical Systems and Applications

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Difference Equations And Discrete Dynamical Systems

**Steve Baigent, Martin Bohner, Saber
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Difference Equations And Discrete Dynamical Systems:

Difference Equations And Discrete Dynamical Systems - Proceedings Of The 9th International Conference Linda Allen, Bernd Aulbach, Saber N Elaydi, Robert Sacker, 2005-10-07 Difference Equations or Discrete Dynamical Systems is a diverse field which impacts almost every branch of pure and applied mathematics Not surprisingly the techniques that are developed vary just as broadly No more so is this variety reflected than at the prestigious annual International Conference on Difference Equations and Applications Organized under the auspices of the International Society of Difference Equations the Conferences have an international attendance and a wide coverage of topics The contributions from the conference collected in this volume invite the mathematical community to see a variety of problems and applications with one ingredient in common the Discrete Dynamical System Readers may also keep abreast of the many novel techniques and developments in the field The special emphasis of the meeting was on mathematical biology and accordingly about half of the articles are in the related areas of mathematical ecology and mathematical medicine

Discrete Dynamical Systems and Difference Equations with Mathematica Mustafa R.S. Kulenovic, Orlando Merino, 2002-02-27 Following the work of Yorke and Li in 1975 the theory of discrete dynamical systems and difference equations developed rapidly The applications of difference equations also grew rapidly especially with the introduction of graphical interface software that can plot trajectories calculate Lyapunov exponents plot bifurcation diagrams and find ba

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

Difference Equations, Discrete Dynamical Systems and Applications Saber Elaydi, Christian Pötzsche, Adina Luminița Sasu, 2019-06-29 The book presents the proceedings of the 23rd International Conference on Difference Equations and Applications ICDEA 2017 held at the West University of Timi oara Romania under the auspices of the International Society of Difference Equations ISDE July 24 28 2017 It includes new and significant contributions in the field of difference equations discrete dynamical systems and their applications in various sciences Disseminating recent studies and related results and promoting advances the book appeals to PhD students researchers educators and practitioners in the field

Difference Equations and Discrete Dynamical Systems with Applications Martin Bohner, Stefan Siegmund, Roman Šimon Hilscher, Petr Stehlík, 2020-02-10 This book presents the proceedings of the 24th International Conference on Difference Equations and Applications which was held at

the Technical University in Dresden Germany in May 2018 under the auspices of the International Society of Difference Equations ISDE The conference brought together leading researchers working in the respective fields to discuss the latest developments and to promote international cooperation on the theory and applications of difference equations This book appeals to researchers and scientists working in the fields of difference equations and discrete dynamical systems and their applications Advances in Difference Equations and Discrete Dynamical Systems Saber Elaydi, Yoshihiro Hamaya, Hideaki Matsunaga, Christian Pötzsche, 2017-11-13 This volume contains the proceedings of the 22nd International Conference on Difference Equations and Applications held at Osaka Prefecture University Osaka Japan in July 2016 The conference brought together both experts and novices in the theory and applications of difference equations and discrete dynamical systems The volume features papers in difference equations and discrete dynamical systems with applications to mathematical sciences and in particular mathematical biology and economics This book will appeal to researchers scientists and educators who work in the fields of difference equations discrete dynamical systems and their applications Advances in Discrete Dynamical Systems, Difference Equations and Applications Saber Elaydi, Mustafa R. S. Kulenović, Senada Kalabušić, 2023-03-25 This book comprises selected papers of the 26th International Conference on Difference Equations and Applications ICDEA 2021 held virtually at the University of Sarajevo Bosnia and Herzegovina in July 2021 The book includes the latest and significant research and achievements in difference equations discrete dynamical systems and their applications in various scientific disciplines The book is interesting for Ph D students and researchers who want to keep up to date with the latest research developments and achievements in difference equations discrete dynamical systems and their applications the real world problems **Difference Equations and Discrete Dynamical Systems** Linda J. S. Allen, Bernd Aulbach, Saber Elaydi, 2005 A discrete time Beverton Holt competition model Azmy S Ackleh Youssef M Dib and Sophia R J Jang A dynamic analysis of the Bush fiscal policy Richard H Day and Chengyu Yang A hybrid approximation to certain delay differential equation with a constant delay George Seifert Compulsory asymptotic behavior of solutions of two dimensional systems of difference equations Josef Diblík and Irena Ruzičková Discrete models of differential equations the roles of dynamic consistency and positivity Ronald E Mickens Enveloping implies global stability Paul Cull Global asymptotic stability in the Jia Li model for genetically altered mosquitoes Robert J Sacker and Hubertus F von Bremen Global behavior of solutions of a nonlinear second order nonautonomous difference equation Vlado L Kocic How can three species coexist in a periodic chemostat Mathematical and numerical study Shinji Nakaoka and Yasuhiro Takeuchi Information theoretic measures of discrete orthogonal polynomials Jesus Sanchez Dehesa et al Local approximation of invariant fiber bundles an algorithmic approach Christian Pötzsche and Martin Rasmussen Necessary and sufficient conditions for oscillation of coupled nonlinear discrete systems Serena Matucci and Pavel Rehák Non standard finite difference methods for dissipative singular perturbation problems Jean M S Lubuma and Kailash C Patidar On a class of generalized autoregressive processes Kamal C

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and discrete dynamical systems *Advances in Discrete Dynamical Systems* Saber Elaydi,2009 This volume contains the proceedings of talks presented at the 11th International Conference on Difference Equations and Applications ICDEA 2006 ICDEA 2006 was held on July 2006 in Kyoto at the 15th MSJ International Research Institute These proceedings comprise new results at the leading edge of many areas in difference equations and discrete dynamical systems and their various applications to the sciences engineering physics and economics *Progress on Difference Equations and Discrete Dynamical Systems* Steve Baigent,Martin Bohner,Saber Elaydi,2021-01-04 This book comprises selected papers of the 25th International Conference on Difference Equations and Applications ICDEA 2019 held at UCL London UK in June 2019 The volume details the latest research on difference equations and discrete dynamical systems and their application to areas such as biology economics and the social sciences Some chapters have a tutorial style and cover the history and more recent developments for a particular topic such as chaos bifurcation theory monotone dynamics and global stability Other chapters cover the latest personal research contributions of the author s in their particular area of expertise and range from the more technical articles on abstract systems to those that discuss the application of difference equations to real world problems The book is of interest to both Ph D students and researchers alike who wish to keep abreast of the latest developments in difference equations and discrete dynamical systems ***Difference Equations, Discrete Dynamical Systems and Applications*** Saber Elaydi,Christian Pötzsche,Adina Luminița Sasu,2019 The book presents the proceedings of the 23rd International Conference on Difference Equations and Applications ICDEA 2017 held at the West University of Timi oara Romania under the auspices of the International Society of Difference Equations ISDE July 24 28 2017 It includes new and significant contributions in the field of difference equations discrete dynamical systems and their applications in various sciences Disseminating recent studies and related results and promoting advances the book appeals to PhD students researchers educators and practitioners in the field ***Difference Equations, Discrete Dynamical Systems and Applications*** Martin Bohner,Yiming Ding,Ondřej Došlý,2015 These proceedings of the 20th International Conference on Difference Equations and Applications cover the areas of difference equations discrete dynamical systems fractal geometry difference equations and biomedical models and discrete models in the natural sciences social sciences and engineering The conference was held at the Wuhan Institute of Physics and Mathematics Chinese Academy of Sciences Hubei China under the auspices of the International Society of Difference Equations ISDE in July 2014 Its purpose was to bring together renowned researchers working actively in the respective fields to discuss the latest developments and to promote international cooperation on the theory and applications of difference equations This book will appeal to researchers and scientists working in the fields of difference equations discrete dynamical systems and their applications *Discrete Dynamics and Difference Equations* Saber N. Elaydi,Henrique Oliveira,Jose Manuel Ferreira,2010 This volume holds a collection of articles based on the talks presented at ICDEA 2007 in Lisbon Portugal The volume encompasses current topics on stability and

bifurcation chaos mathematical biology iteration theory nonautonomous systems and stochastic dynamical systems

Difference Equations, Discrete Dynamical Systems and Applications Sorin Olaru, J. M. Cushing, Saber N. Elaydi, René Pierre Lozi, 2024 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

New Developments in Discrete Dynamical Systems, Difference Equations, and Applications Saber Elaydi, Laura Gardini, Wirot Tikjha, 2025-03-25 This compelling book presents remarkable contributions from esteemed speakers who participated in the 28th International Conference on Difference Equations and Applications ICDEA 2023 hosted at Phitsanulok Thailand in collaboration with the International Society of Difference Equations ISDE from July 17 to 21 2023 Embark on an enriching journey through the realms of difference equations and discrete dynamical systems with practical applications spanning economics engineering biology and related sciences Immerse yourself in cutting edge research as you explore new and significant breakthroughs within the fields of difference equations and discrete dynamical systems This comprehensive compilation spans diverse scientific disciplines demonstrating the profound impact of these theories and methodologies in practical and tangible settings From economic modeling to engineering optimization from biological systems to interdisciplinary applications this book exemplifies the versatility and relevance of difference equations and discrete dynamical systems Designed to resonate with a wide audience including Ph D students researchers educators and practitioners it goes beyond mere dissemination of recent results It actively fosters the advancement of knowledge serving as a catalyst for further explorations and innovations across the spectrum of sciences

Discrete Dynamical Systems Oded Galor, 2007-05-17 This book provides an introduction to discrete dynamical systems a framework of analysis that is commonly used in the fields of biology demography ecology economics engineering finance and physics The book characterizes the fundamental factors that govern the quantitative and qualitative trajectories of a variety of deterministic discrete dynamical systems providing solution methods for systems that can be solved analytically and methods of qualitative analysis for those systems that do not permit or necessitate an explicit solution The analysis focuses initially on the characterization of the factors that govern the evolution of state variables in the elementary context of one dimensional first order linear autonomous systems The fundamental insights about the forces that affect the evolution of these elementary systems are subsequently generalized and the determinants of the trajectories of multi dimensional nonlinear higher order non autonomous dynamical systems are established Chapter 1 focuses on the analysis of the evolution of state variables in

one dimensional first order autonomous systems It introduces a method of solution for these systems and it characterizes the trajectory of a state variable in relation to a steady state equilibrium of the system examining the local and global asymptotic stability of this steady state equilibrium The first part of the chapter characterizes the factors that determine the existence uniqueness and stability of a steady state equilibrium in the elementary context of one dimensional first order linear

autonomous systems **Discrete Dynamical Systems, Bifurcations and Chaos in Economics** Wei-Bin

Zhang,2006-01-05 This book is a unique blend of difference equations theory and its exciting applications to economics It deals with not only theory of linear and linearized difference equations but also nonlinear dynamical systems which have been widely applied to economic analysis in recent years It studies most important concepts and theorems in difference equations theory in a way that can be understood by anyone who has basic knowledge of calculus and linear algebra It contains well known applications and many recent developments in different fields of economics The book also simulates many models to illustrate paths of economic dynamics A unique book concentrated on theory of discrete dynamical systems and its traditional as well as advanced applications to economics Mathematical definitions and theorems are introduced in a systematic and easily accessible way Examples are from almost all fields of economics technically proceeding from basic to advanced topics Lively illustrations with numerous figures Numerous simulation to see paths of economic dynamics Comprehensive treatment of the subject with a comprehensive and easily accessible approach

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