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Advances in Differential and Difference Equations with Applications 2020

Edited by
Dumitru Baleanu

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Advances In Difference Equations

Joacim Rocklöv



Advances In Difference Equations:

Advances in Difference Equations Saber N. Elaydi, I. Gyori, G. Ladas, 1998-01-29 The recent surge in research activity in difference equations and applications has been driven by the wide applicability of discrete models to such diverse fields as biology engineering physics economics chemistry and psychology The 68 papers that make up this book were presented by an international group of experts at the Second International Conference on Difference Equations held in Veszprém Hungary in August 1995 Featuring contributions on such topics as orthogonal polynomials control theory asymptotic behavior of solutions stability theory special functions numerical analysis oscillation theory models of vibrating string models of chemical reactions discrete competition systems the Liouville Green WKB method and chaotic phenomena this volume offers a comprehensive review of the state of the art in this exciting field

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Advances in Difference Equations, 2006

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 Differential and Difference Equations with Applications 2020 Dumitru Baleanu, 2020-08-21 It is very well known that differential equations are related with the rise of physical science in the last several decades and they are used successfully for models of real world problems in a variety of fields from several disciplines Additionally difference equations represent the discrete analogues of differential equations These types of equations started to be used intensively during the last several years for their multiple applications particularly in complex chaotic behavior A certain class of differential and related difference

equations is represented by their respective fractional forms which have been utilized to better describe non local phenomena appearing in all branches of science and engineering The purpose of this book is to present some common results given by mathematicians together with physicists engineers as well as other scientists for whom differential and difference equations are valuable research tools The reported results can be used by researchers and academics working in both pure and applied differential equations

Advances in Difference Equations III Ravi P. Agarwal, Donal O'Regan, 2001 **New Developments in Difference Equations and Applications** Sui Sun Cheng, Saber N. Elaydi, 2017-09-29 The late Professor Ming Po Chen was instrumental in making the Third International Conference on Difference Equations a great success Dedicated to his memory these proceedings feature papers presented by many of the most prominent mathematicians in the field It is a comprehensive collection of the latest developments in topics including stability theory combinatorics asymptotics partial difference equations as well as applications to biological social and natural sciences This volume is an indispensable reference for academic and applied mathematicians theoretical physicists systems engineers and computer and information scientists

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Advances in Difference Equations II Ravi P. Agarwal, 1998 *Advances in Differential and Difference Equations and Their Applications* Lingju Kong, Min Wang, 2025-01-24 This Special Issue presents a collection of articles that highlight the significant progress in the study of differential and difference equations These contributions cover a wide range of topics from boundary value problems and the asymptotic behavior of solutions to complex mathematical models and the application of fractional and difference equations in various scientific and engineering fields Differential equations are a core mathematical tool for modeling dynamic systems in a diverse range of areas such as physics biology economics and engineering Likewise difference equations provide discrete counterparts to continuous models which are crucial in understanding phenomena occurring in digital systems and various computational models The papers presented in this Special Issue reflect the latest theoretical advancements and applications in these important research areas

Advance Numerical Techniques to Solve Linear and Nonlinear Differential Equations Geeta Arora, Mangey Ram, 2024-01-23 Real world issues can be translated into the language and concepts of mathematics with the use of mathematical models Models guided by differential equations with intuitive solutions can be used throughout engineering and the sciences Almost any changing

system may be described by a set of differential equations They may be found just about anywhere you look in fields including physics engineering economics sociology biology business healthcare etc The nature of these equations has been investigated by several mathematicians over the course of hundreds of years and consequently numerous effective methods for solving them have been created It is often impractical to find a purely analytical solution to a system described by a differential equation because either the system itself is too complex or the system being described is too vast Numerical approaches and computer simulations are especially helpful in such systems The content provided in this book involves real world examples explores research challenges in numerical treatment and demonstrates how to create new numerical methods for resolving problems Theories and practical applications in the sciences and engineering are also discussed Students of engineering and applied mathematics as well as researchers and engineers who use computers to solve problems numerically or oversee those who do will find this book focusing on advance numerical techniques to solve linear and nonlinear differential equations useful

Advanced Topics in Difference Equations R.P. Agarwal, Patricia J.Y. Wong, 2013-04-17 The theory of difference equations the methods used in their solutions and their wide applications have advanced beyond their adolescent stage to occupy a central position in Applicable Analysis In fact in the last five years the proliferation of the subject is witnessed by hundreds of research articles and several monographs two International Conferences and numerous Special Sessions and a new Journal as well as several special issues of existing journals all devoted to the theme of Difference Equations Now even those experts who believe in the universality of differential equations are discovering the sometimes striking divergence between the continuous and the discrete There is no doubt that the theory of difference equations will continue to play an important role in mathematics as a whole In 1992 the first author published a monograph on the subject entitled Difference Equations and Inequalities This book was an in depth survey of the field up to the year of publication Since then the subject has grown to such an extent that it is now quite impossible for a similar survey even to cover just the results obtained in the last four years to be written In the present monograph we have collected some of the results which we have obtained in the last few years as well as some yet unpublished ones

Some Recent Advances in Partial Difference Equations Eugenia N. Petropoulou, 2010 Lately there is an increasing interest in partial difference equations demonstrated by the enormous amount of research papers devoted to them The initial reason for this increasing interest was the development of computers and the area of numerical analysis

Advances in Differential Equations, 1997

Focal Boundary Value Problems for Differential and Difference Equations R.P. Agarwal, 2013-03-09 The last fifty years have witnessed several monographs and hundreds of research articles on the theory constructive methods and wide spectrum of applications of boundary value problems for ordinary differential equations In this vast field of research the conjugate Hermite and the right focal point Abel types of problems have received the maximum attention This is largely due to the fact that these types of problems are basic in the sense that the methods employed in their study are easily extendable

to other types of problems. Moreover, the conjugate and the right focal point types of boundary value problems occur frequently in real world problems. In the monograph *Boundary Value Problems for Higher Order Differential Equations* published in 1986 we addressed the theory of conjugate boundary value problems. At that time the results on right focal point problems were scarce; however, in the last ten years extensive research has been done. In Chapter 1 of the monograph we offer up to date information of this newly developed theory of right focal point boundary value problems. Until twenty years ago Difference Equations were considered as the discretizations of the differential equations. Further it was tacitly taken for granted that the theories of difference and differential equations are parallel. However, striking diversities and wide applications reported in the last two decades have made difference equations one of the major areas of research.

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 to real world problems.

Recent Advances in Delay Differential and Difference Equations Ferenc Hartung, Mihály Pituk, 2014-08-22 Delay differential and difference equations serve as models for a range of processes in biology, physics, engineering, and control theory. In this volume the participants of the International Conference on Delay Differential and Difference Equations and Applications Balatonfured, Hungary, July 15-19, 2013 present recent research in this quickly evolving field. The papers relate to the existence, asymptotic and oscillatory properties of the solutions, stability theory, numerical approximations, and applications to real world phenomena using deterministic and stochastic discrete and continuous dynamical systems.

Colloquium on Differential and Difference Equations Miroslav Bartušek, Ondřej Došlý, 2003 **Some Recent Advances in Partial Difference Equations**, 2010 Lately there is an increasing interest in partial difference equations demonstrated by the enormous amount of research papers devoted to them. The initial reason for this increasing interest was the development of computers and the area of numerical analysis where partial difference equations arise naturally when discretizing a partial differential equation. The aim of this e-book is to provide some recent advances in the field of partial difference equations. Applications of partial difference equations in numerical analysis and systems theory are also presented. This e-book will be of use to

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