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Discrete Hamiltonian Systems

Difference Equations,
Continued Fractions,
and Riccati Equations

Calvin D. Ahlbrandt
Allan C. Peterson

Springer-Science+Business Media, B.V.

Discrete Hamiltonian Systems Difference Equations Continued Fractions And Riccati Equations

Didier Musso



Discrete Hamiltonian Systems Difference Equations Continued Fractions And Riccati Equations:

Discrete Hamiltonian Systems Calvin Ahlbrandt,A.C. Peterson,2013-06-29 This book should be accessible to students who have had a first course in matrix theory The existence and uniqueness theorem of Chapter 4 requires the implicit function theorem but we give a self contained constructive proof of that theorem The reader willing to accept the implicit function theorem can read the book without an advanced calculus background Chapter 8 uses the Moore Penrose pseudo inverse but is accessible to students who have facility with matrices Exercises are placed at those points in the text where they are relevant For U S universities we intend for the book to be used at the senior undergraduate level or beginning graduate level Chapter 2 which is on continued fractions is not essential to the material of the remaining chapters but is intimately related to the remaining material Continued fractions provide closed form representations of the extreme solutions of some discrete matrix Riccati equations Continued fractions solution methods for Riccati difference equations provide an approach analogous to series solution methods for linear differential equations The book develops several topics which have not been available at this level In particular the material of the chapters on continued fractions Chapter 2 symplectic systems Chapter 3 and discrete variational theory Chapter 4 summarize recent literature Similarly the material on transforming Riccati equations presented in Chapter 3 gives a self contained unification of various forms of Riccati equations Motivation for our approach to difference equations came from the work of Harris Vaughan Hartman Reid Patula Hooker Erbe Van and Bohner

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Dynamic Equations on Time Scales Martin Bohner,Allan Peterson,2012-12-06 On becoming familiar

with difference equations and their close relation to differential equations I was in hopes that the theory of difference equations could be brought completely abreast with that for ordinary differential equations HUGH L TURRITTIN My Mathematical Expectations Springer Lecture Notes 312 page 10 1973 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 E T BELL Men of Mathematics Simon and Schuster New York page 13 14 1937 The theory of time scales which has recently received a lot of attention was introduced by Stefan Hilger in his PhD thesis 159 in 1988 supervised by Bernd Aulbach in order to unify continuous and discrete analysis This book is an introduction to the study of dynamic equations on time scales Many results concerning differential equations carryover quite easily to corresponding results for difference equations while other results seem to be completely different in nature from their continuous counterparts The study of dynamic equations on time scales reveals such discrepancies and helps avoid proving results twice once for differential equations and once for difference equations The general idea is to prove a result for a dynamic equation where the domain of the unknown function is a so called time scale which is an arbitrary nonempty closed subset of the reals

Proceedings of the First International Conference on Difference Equations John R. Graef, Saber Elaydi, G. Ladas, 1995-12-01 The Eighth International Conference on Difference Equations and Applications was held at Masaryk University in Brno Czech Republic This volume comprises refereed papers presented at this conference Initially published in 2005

Combined Measure and Shift Invariance Theory of Time Scales and Applications Chao Wang, Ravi P. Agarwal, 2022-09-22 This monograph is devoted to developing a theory of combined measure and shift invariance of time scales with the related applications to shift functions and dynamic equations The study of shift closeness of time scales is significant to investigate the shift functions such as the periodic functions the almost periodic functions the almost automorphic functions and their generalizations with many relevant applications in dynamic equations on arbitrary time scales First proposed by S Hilger the time scale theory a unified view of continuous and discrete analysis has been widely used to study various classes of dynamic equations and models in real world applications Measure theory based on time scales in its turn is of great power in analyzing functions on time scales or hybrid domains As a new and exciting type of mathematics and more comprehensive and versatile than the traditional theories of differential and difference equations the time scale theory can precisely depict the continuous discrete hybrid processes and is an optimal way forward for accurate mathematical modeling in applied sciences such as physics chemical technology population dynamics biotechnology and economics and social sciences Graduate students and researchers specializing in general dynamic equations on time scales can benefit from this work fostering interest and further research in the field It can also serve as reference material for undergraduates interested in dynamic equations on time scales Prerequisites include familiarity with functional analysis measure theory and ordinary differential equations

Theory of Translation Closedness for Time Scales Chao Wang, Ravi P. Agarwal, Donal O' Regan, Rathinasamy

Sakthivel, 2020-05-05 This monograph establishes a theory of classification and translation closedness of time scales a topic that was first studied by S Hilger in 1988 to unify continuous and discrete analysis The authors develop a theory of translation function on time scales that contains piecewise almost periodic functions piecewise almost automorphic functions and their related generalization functions e g pseudo almost periodic functions weighted pseudo almost automorphic functions and more Against the background of dynamic equations these function theories on time scales are applied to study the dynamical behavior of solutions for various types of dynamic equations on hybrid domains including evolution equations discontinuous equations and impulsive integro differential equations The theory presented allows many useful applications such as in the Nicholson s blowflies model the Lasota Wazewska model the Keynesian Cross model in those realistic dynamical models with a more complex hybrid domain considered under different types of translation closedness of time scales and in dynamic equations on mathematical models which cover neural networks This book provides readers with the theoretical background necessary for accurate mathematical modeling in physics chemical technology population dynamics biotechnology and economics neural networks and social sciences

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 Abey 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 Automatic Control Mihail Voicu, 2012-12-06 During the academic year 2002 2003 the Faculty of Automatic Control and Computer Engineering of Ia i Romania and its Departments of Automatic Control and Industrial Informatics and of Computer Engineering respectively celebrated 25 years from the establishment of the specialization named Automatic Control and Computer Engineering within the framework of the former Faculty of Electrical Engineering of Ia i and at the same time 40 years since the first courses on Automatic Control and Computers respectively were introduced in the curricula of the former specializations of Electromechanical

Engineering and Electrical Power Engineering at the already mentioned Faculty of Electrical Engineering The reader interested to know some important moments of our evolution during the last five decades is invited to see the Addendum of this volume where a short history is presented And to highlight once more the nice coincidences it must be noted here that in 2003 our Technical University Gheorghe Asachi of Iași celebrated 190 years from the emergence of the first cadastral engineering degree course in Iași thanks to the endeavor of Gheorghe Asachi which is today considered to be the beginning of the engineering higher education in Romania Generally speaking an anniversary is a celebration meant to mark special events of the past with festivities to be performed solemnly and publicly according to a specific ritual

Colloquium on Differential and Difference Equations Miroslav Bartušek, Ondřej Došlý, 2003 **Dynamics of Continuous, Discrete and Impulsive Systems**, 1999 *Dynamics of Continuous, Discrete & Impulsive Systems*, 2007 *Dynamic Systems and Applications*, 2003 **Invited Lectures Delivered at the Seventh International Colloquium on Differential Equations, August 18-23, 1996, Plovdiv, Bulgaria** Angel Dishliev, 1996 **Functional Differential Equations**, 2004

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 *Annals of Differential Equations*, 2005 **SIAM Journal on Matrix Analysis and Applications**, 1998 *Mathematical Analysis and Applications* Vicentiu D. Radulescu, Constantin Niculescu (P.), 2006-05-25

This book comprises the proceedings of the International Conference on Mathematical Analysis and Applications held in Craiova Romania 23-24 September 2005 The peer reviewed papers presented here cover a range of topics at the interface between mathematical physics numerical analysis optimal control and calculus of variations The coverage includes nonlinear analysis and partial differential equations as well as classical mathematical analysis and dynamical systems

Mathematical Reviews, 2001 **Panamerican Mathematical Journal**, 2007

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