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Discrete Fractional Calculus

 Springer

Nice Discrete Fractional Calculus Christopher Goodrich

**Vignesh Dhakshinamoorthy, Guo-
Cheng Wu, Santo Banerjee**



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Discrete Fractional Calculus Christopher Goodrich, Allan C. Peterson, 2016-02-09 This text provides the first comprehensive treatment of the discrete fractional calculus Experienced researchers will find the text useful as a reference for discrete fractional calculus and topics of current interest Students who are interested in learning about discrete fractional calculus will find this text to provide a useful starting point Several exercises are offered at the end of each chapter and select answers have been provided at the end of the book The presentation of the content is designed to give ample flexibility for potential use in a myriad of courses and for independent study The novel approach taken by the authors includes a simultaneous treatment of the fractional and integer order difference calculus on a variety of time scales including both the usual forward and backwards difference operators The reader will acquire a solid foundation in the classical topics of the discrete calculus while being introduced to exciting recent developments bringing them to the frontiers of the subject Most chapters may be covered or omitted depending upon the background of the student For example the text may be used as a primary reference in an introductory course for difference equations which also includes discrete fractional calculus Chapters 1 2 provide a basic introduction to the delta calculus including fractional calculus on the set of integers For courses where students already have background in elementary real analysis Chapters 1 2 may be covered quickly and readers may then skip to Chapters 6 7 which present some basic results in fractional boundary value problems FBVPs Chapters 6 7 in conjunction with some of the current literature listed in the Bibliography can provide a basis for a seminar in the current theory of FBVPs For a two semester course Chapters 1 5 may be covered in depth providing a very thorough introduction to both the discrete fractional calculus as well as the integer order calculus

Chaotic Dynamics of Fractional Discrete Time Systems Vignesh Dhakshinamoorthy, Guo-Cheng Wu, Santo Banerjee, 2024-09-06 The book reviews the application of discrete fractional operators in diverse fields such as biological and chemical reactions as well as chaotic systems demonstrating their applications in physics The dynamical analysis is carried out using equilibrium points of the system for studying their stability properties and the chaotic behaviors are illustrated with the help of bifurcation diagrams and Lyapunov exponents The book is divided into three parts Part I deals with the application of discrete fractional operators in chemical reaction based systems with biological significance Two different chemical reaction models are analysed one being disproportionation of glucose which plays an important role in human physiology and the other is the Lengyel Epstein chemical model Chaotic behavior of the systems is studied and the synchronization of the system is performed Part II covers the analysis of biological systems like tumor immune system and neuronal models by introducing memristor based flux control The memductance functions are considered as quadratic periodic and exponential functions The final part of the book reviews the complex form of the Rabinovich Fabrikant system which describes physical systems with strong nonlinearity exhibiting unusual behavior

Mathematical Reviews ,2005

The Theory of Discrete Fractional Calculus Michael T. Holm, 2011

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Fractional Calculus Piotr Ostalczyk, 2015-11-26 The main subject of the monograph is the fractional calculus in the discrete version The volume is divided into three main parts Part one contains a theoretical introduction to the classical and fractional order discrete calculus where the fundamental role is played by the backward difference and sum In the second part selected applications of the discrete fractional calculus in the discrete system control theory are presented In the discrete system identification analysis and synthesis one can consider integer or fractional models based on the fractional order difference equations The third part of the book is devoted to digital image processing

Discrete Fractional Calculus and Its Applications to Tumor Growth Sevgi Sengul, 2010 *Fractional Calculus* Roy Abi Zeid Daou, Xavier Moreau, 2014-01-11 The first volume of this two volume book presents history the mathematical modelling and the applications of fractional order systems and contains mathematical and theoretical studies and research related to this domain This volume is made up of 11 chapters The first chapter presents an analysis of the Caputo derivative and the pseudo state representation with the infinite state approach The second chapter studies the stability of a class of fractional Cauchy problems The third chapter shows how to solve fractional order differential equations and fractional order partial differential equations using modern matrix algebraic approaches Following this chapter chapter four proposes another analytical method to solve differential equations with local fractional derivative operators Concerning chapter five it presents the extended Borel transform and its related fractional analysis After presenting the analytical resolution methods for fractional calculus chapter six shows the essentials of fractional calculus on discrete settings The initialisation of such systems is shown in chapter seven In fact this chapter presents a generalised application of the Hankel operator for initialisation of fractional order systems The last four chapters show some new studies and applications of non integer calculus In fact chapter eight presents the fractional reaction transport equations and evanescent continuous time random walks Chapter nine shows a novel approach in the exponential integrators for fractional differential equations Chapter ten presents the non fragile tuning of fractional order PD controllers for integrating time delay systems At the end chapter eleven proposes a discrete finite dimensional approximation of linear infinite dimensional systems To sum up this volume presents a mathematical and theoretical study of fractional calculus along with a stability study and some applications This volume ends up with some new techniques and methods applied in fractional calculus This volume will be followed up by a second volume that focuses on the applications of fractional calculus in several engineering domains *Fractional Calculus and Scales of Spaces* Chris Waddell, University of Strathclyde, 2004

Fractional Calculus in Analysis, Dynamics, and Optimal Control Jacky Cresson, 2014 This book is devoted to applications of fractional calculus in classical fields of mathematics like analysis dynamics partial differential equations and optimal control The first chapter deals with the notion of local fractional derivatives and its applications to the study of regularity and geometry of curves The second chapter develops the notion of fractional embedding and fractional asymmetric calculus of variations in order to find fractional Lagrangian variational structures for classical dissipative partial differential

equations In continuation of this chapter a fractional analogue of the classical Pontryagin maximum principle is proved for discrete and continuous fractional optimal control problems The fourth chapter gives a first mathematical model that allows a rigorous connection to be made between the dynamics of chaotic Hamiltonian systems and fractional dynamics mixing the previous approaches of G Zaslavsky and R Hilfer Finally numerical methods to deal with fractional optimal control problems are discussed and implemented All the chapters are self contained and complete proofs are given Fractional Calculus Roy

Abi Zeid Daou,2014 The first volume of this two volume book presents history the mathematical modeling and the applications of fractional order systems and contains mathematical and theoretical studies and research related to this domain This volume is made up of 11 chapters The first chapter presents an analysis of the Caputo derivative and the pseudo state representation with the infinite state approach The second chapter studies the stability of a class of fractional Cauchy problems The third chapter shows how to solve fractional order differential equations and fractional order partial differential equations using modern matrix algebraic approaches Following this chapter chapter four proposes another analytical method to solve differential equations with local fractional derivative operators Concerning chapter five it presents the extended Borel transform and its related fractional analysis After presenting the analytical resolution methods for fractional calculus chapter six shows the essentials of fractional calculus on discrete settings The initialization of such systems is shown in chapter seven In fact this chapter presents a generalized application of the Hankel operator for initialization of fractional order systems The last four chapters show some new studies and applications of non integer calculus In fact chapter eight presents the fractional reaction transport equations and evanescent continuous time random walks Chapter nine shows a novel approach in the exponential integrators for fractional differential equations Chapter ten presents the non fragile tuning of fractional order PD controllers for integrating time delay systems At the end chapter eleven proposes a discrete finite dimensional approximation of linear infinite dimensional systems To sum up this volume presents a mathematical and theoretical study of fractional calculus along with a stability study and some applications This volume ends up with some new techniques and methods applied in fractional calculus This volume will be followed up by a second volume that focuses on the applications of fractional calculus in several engineering domains Fractional Calculus and Its Applications B.

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Fractional Calculus and Its Applications International Conference in Fractional Calculus and Its Applications,1975

Introduction To The Fractional Calculus Of Variations Agnieszka Barbara Malinowska,Delfim F. M. Torres,2012

Development and Application of Difference and Fractional Calculus on Discrete Time Scales Tanner J.

Auch,2013 The purpose of this dissertation is to develop and apply results of both discrete calculus and discrete fractional calculus to further develop results on various discrete time scales Two main goals of discrete and fractional discrete calculus

are to extend results from traditional calculus and to unify results on the real line with those on a variety of subsets of the real line Of particular interest is introducing and analyzing results related to a generalized fractional boundary value problem with Lidstone boundary conditions on a standard discrete domain $\mathbb{N}_a$ We also introduce new results regarding exponential order for functions on quantum time scales along with extending previously discovered results Finally we conclude by introducing and analyzing a boundary value problem again with Lidstone boundary conditions on a mixed time scale which may be thought of as a generalization of the other time scales in this work

Reviewing **Nice Discrete Fractional Calculus Christopher Goodrich**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Nice Discrete Fractional Calculus Christopher Goodrich**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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