

Christopher Goodrich · Allan C. Peterson

Discrete Fractional Calculus

Nice Book Discrete Fractional Calculus Christopher Goodrich

Keith B. Oldham,Jerome Spanier

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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.

The Theory of Discrete Fractional Calculus

Michael T. Holm, 2011 **Discrete Fractional Calculus: Applications In Control And Image Processing** 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.

Fractional Calculus and Scales of Spaces Chris Waddell, University of Strathclyde, 2004 *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 Its Applications B. Ross, 2014-09-01 **Introduction To**

The Fractional Calculus Of Variations Delfim F M Torres, Agnieszka Barbara Malinowska, 2012-09-14. This invaluable book provides a broad introduction to the fascinating and beautiful subject of Fractional Calculus of Variations (FCV). In 1996, FVC evolved in order to better describe non-conservative systems in mechanics. The inclusion of non-conservatism is extremely important from the point of view of applications. Forces that do not store energy are always present in real systems. They remove energy from the systems and, as a consequence, Noether's conservation laws cease to be valid. However, it is still possible to obtain the validity of Noether's principle using FCV. The new theory provides a more realistic approach to physics, allowing us to consider non-conservative systems in a natural way. The authors prove the necessary Euler-Lagrange conditions and corresponding Noether theorems for several types of fractional variational problems with and without constraints using Lagrangian and Hamiltonian formalisms. Sufficient optimality conditions are also obtained under convexity and Leitmann's direct method is discussed within the framework of FCV. The book is self-contained and unified in presentation. It may be used as an advanced textbook by graduate students and ambitious undergraduates in mathematics and mechanics. It provides an opportunity for an introduction to FCV for experienced researchers. The explanations in the book are detailed in order to capture the interest of the curious reader and the book provides the necessary background material required to go further into the subject and explore the rich research literature.

The Fractional Calculus Keith B. Oldham, Jerome Spanier, 1974 **Fractional Calculus: Models And Numerical Methods (Second Edition)** Juan J. Trujillo, Enrico Scalas, Kai Diethelm, Dumitru Baleanu, 2016-09-15. This book will give readers the possibility of finding very

important mathematical tools for working with fractional models and solving fractional differential equations such as a generalization of Stirling numbers in the framework of fractional calculus and a set of efficient numerical methods Moreover we will introduce some applied topics in particular fractional variational methods which are used in physics engineering or economics We will also discuss the relationship between semi Markov continuous time random walks and the space time fractional diffusion equation which generalizes the usual theory relating random walks to the diffusion equation These methods can be applied in finance to model tick by tick log price fluctuations in insurance theory to study ruin as well as in macroeconomics as prototypical growth models All these topics are complementary to what is dealt with in existing books on fractional calculus and its applications This book will keep in mind the trade off between full mathematical rigor and the needs of readers coming from different applied areas of science and engineering In particular the numerical methods listed in the book are presented in a readily accessible way that immediately allows the readers to implement them on a computer in a programming language of their choice The second edition of the book has been expanded and now includes a discussion of additional newly developed numerical methods for fractional calculus and a chapter on the application of fractional calculus for modeling processes in the life sciences

Fractional Calculus: An Introduction For Physicists (2nd Edition)

Richard Herrmann,2014-01-03 The book presents a concise introduction to the basic methods and strategies in fractional calculus and enables the reader to catch up with the state of the art in this field as well as to participate and contribute in the development of this exciting research area The contents are devoted to the application of fractional calculus to physical problems The fractional concept is applied to subjects in classical mechanics group theory quantum mechanics nuclear physics hadron spectroscopy and quantum field theory and it will surprise the reader with new intriguing insights This new extended edition now also covers additional chapters about image processing folded potentials in cluster physics infrared spectroscopy and local aspects of fractional calculus A new feature is exercises with elaborated solutions which significantly supports a deeper understanding of general aspects of the theory As a result this book should also be useful as a supporting medium for teachers and courses devoted to this subject

Fractional Calculus: Theory and Applications

Francesco Mainardi,2018-09-20 This book is a printed edition of the Special Issue Fractional Calculus Theory and Applications that was published in Mathematics

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: Models And Numerical Methods Dumitru Baleanu,Kai Diethelm,Enrico Scalas,Juan J Trujillo,2012-01-27

The subject of fractional calculus and its applications that is convolution type pseudo differential operators including integrals and derivatives of any arbitrary real or complex order has gained considerable popularity and importance during the past three decades or so mainly due to its applications in diverse fields of science and engineering These operators have been used to model problems with anomalous dynamics however they also are an effective tool as filters and controllers and they can be applied to write complicated functions in terms of fractional integrals or derivatives of elementary functions and so on This book will give readers the possibility of finding very important mathematical tools for working with fractional models and solving fractional differential equations such as a generalization of Stirling numbers in the framework of fractional calculus and a set of efficient numerical methods Moreover we will introduce some applied topics in particular fractional variational methods which are used in physics engineering or economics We will also discuss the relationship between semi Markov continuous time random walks and the space time fractional diffusion equation which generalizes the usual theory relating random walks to the diffusion equation These methods can be applied in finance to model tick by tick log price fluctuations in insurance theory to study ruin as well as in macroeconomics as prototypical growth models All these topics are complementary to what is dealt with in existing books on fractional calculus and its applications This book was written with a trade off in mind between full mathematical rigor and the needs of readers coming from different applied areas of science and engineering In particular the numerical methods listed in the book are presented in a readily accessible way that immediately allows the readers to implement them on a computer in a programming language of their choice Numerical code is also provided **Discrete Fractional Calculus and Its Applications to Tumor Growth** Sevgi Sengul,2010

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 assymetric 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

The fractional calculus : theory and applications of differentiation and integration to arbitrary order Keith B. Oldham,Jerome Spanier,1974 [Fractional Calculus: An Introduction For Physicists \(Third Edition\)](#)

Richard Herrmann,2018-07-09 The third edition of this book is designed to carefully and coherently introduce fractional calculus to physicists by applying the ideas to two distinct applications classical problems and multi particle quantum problems There remain many open questions and the field remains an active area of research Dr Herrmann s book is an excellent introduction to this field of study Contemporary PhysicsThe book presents a concise introduction to the basic methods and strategies in fractional calculus which enables the reader to catch up with the state of the art in this field and to participate and contribute in the development of this exciting research area This book is devoted to the application of fractional calculus on physical problems The fractional concept is applied to subjects in classical mechanics image processing folded potentials in cluster physics infrared spectroscopy group theory quantum mechanics nuclear physics hadron spectroscopy up to quantum field theory and will surprise the reader with new intriguing insights This new extended edition includes additional chapters about numerical solution of the fractional Schrödinger equation self similarity and the geometric interpretation of non isotropic fractional differential operators Motivated by the positive response new exercises with elaborated solutions are added which significantly support a deeper understanding of the general aspects of the theory Besides students as well as researchers in this field this book will also be useful as a supporting medium for teachers teaching courses devoted to this subject

[Fractional Calculus and its Applications in Physics](#) Dumitru Baleanu,Devendra Kumar,2019-11-15

Advanced Methods in the Fractional Calculus of Variations Agnieszka B. Malinowska,Tatiana Odzijewicz,Delfim F.M. Torres,2015-02-05 This brief presents a general unifying perspective on the fractional calculus It brings together results of several recent approaches in generalizing the least action principle and the Euler Lagrange equations to include fractional derivatives The dependence of Lagrangians on generalized fractional operators as well as on classical derivatives is considered along with still more general problems in which integer order integrals are replaced by

fractional integrals General theorems are obtained for several types of variational problems for which recent results developed in the literature can be obtained as special cases In particular the authors offer necessary optimality conditions of Euler Lagrange type for the fundamental and isoperimetric problems transversality conditions and Noether symmetry theorems The existence of solutions is demonstrated under Tonelli type conditions The results are used to prove the existence of eigenvalues and corresponding orthogonal eigenfunctions of fractional Sturm Liouville problems Advanced Methods in the Fractional Calculus of Variations is a self contained text which will be useful for graduate students wishing to learn about fractional order systems The detailed explanations will interest researchers with backgrounds in applied mathematics control and optimization as well as in certain areas of physics and engineering **Solved Exercises in Fractional Calculus** Edmundo Capelas de Oliveira,Jayme Vaz,2025-04-28 This textbook provides a comprehensive exploration of special functions and fractional calculus offering a structured approach through solved and proposed exercises Covering key mathematical concepts such as Mittag Leffler functions Kilbas Saigo functions and the Erd lyi Kober fractional integral it balances theoretical insights with practical applications Appendices introduce Barnes G functions and demonstrate the use of Mathematica for fractional calculus expanding the book s accessibility With an updated index and extensive references this edition serves as a valuable resource for researchers graduate students and professionals in applied mathematics and related fields

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