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New Trends in Nanotechnology and Fractional Calculus Applications

 Springer

New Trends In Nanotechnology And Fractional Calculus Applications

Xiao-Jun Yang



New Trends In Nanotechnology And Fractional Calculus Applications:

New Trends in Nanotechnology and Fractional Calculus Applications Dumitru Baleanu, Ziya B. Guvenc, J.A. Tenreiro Machado, 2010-03-14 In recent years fractional calculus has played an important role in various fields such as mechanics electricity chemistry biology economics modeling identification control theory and signal processing The scope of this book is to present the state of the art in the study of fractional systems and the application of fractional differentiation Furthermore the manufacture of nanowires is important for the design of nanosensors and the development of high yield thin films is vital in procuring clean solar energy This wide range of applications is of interest to engineers physicists and mathematicians Fractional Calculus: New Applications in Understanding Nonlinear Phenomena Mehmet Yavuz, Necati Özdemir, 2022-12-14 In the last two decades many new fractional operators have appeared often defined using integrals with special functions in the kernel as well as their extended or multivariable forms Modern operators in fractional calculus have different properties which are comparable to those of classical operators These have been intensively studied for modelling and analysing real world phenomena There is now a growing body of research on new methods to understand natural occurrences and tackle different problems This book presents ten reviews of recent fractional operators split over three sections 1 Chaotic Systems and Control covers the Caputo fractional derivative and a chaotic fractional order financial system 2 Heat Conduction covers the Duhamel theorem for time dependent source terms and the Cattaneo Hristov model for oscillatory heat transfer 3 Computational Methods and Their Illustrative Applications covers mathematical analysis for understanding 5 real world phenomena HTLV 1 infection of CD4 T cells traveling waves rumor spreading biochemical reactions and the computational fluid dynamics of a non powered floating object navigating in an approach channel This volume is a resource for researchers in physics biology behavioral sciences and mathematics who are interested in new applications of fractional calculus in the study of nonlinear phenomena **Symmetry in Complex Systems** J. A. Tenreiro Machado, António M. Lopes, 2021-01-21 Complex systems with symmetry arise in many fields at various length scales including financial markets social transportation telecommunication and power grid networks world and country economies ecosystems molecular dynamics immunology living organisms computational systems and celestial and continuum mechanics The emergence of new orders and structures in complex systems means symmetry breaking and transitions from unstable to stable states Modeling complexity has attracted many researchers from different areas dealing both with theoretical concepts and practical applications This Special Issue fills the gap between the theory of symmetry based dynamics and its application to model and analyze complex systems *General Fractional Derivatives* Xiao-Jun Yang, 2019-05-10 General Fractional Derivatives Theory Methods and Applications provides knowledge of the special functions with respect to another function and the integro differential operators where the integrals are of the convolution type and exist the singular weakly singular and nonsingular kernels which exhibit the fractional derivatives fractional integrals general fractional derivatives

and general fractional integrals of the constant and variable order without and with respect to another function due to the appearance of the power law and complex herbivores to figure out the modern developments in theoretical and applied science Features Give some new results for fractional calculus of constant and variable orders Discuss some new definitions for fractional calculus with respect to another function Provide definitions for general fractional calculus of constant and variable orders Report new results of general fractional calculus with respect to another function Propose news special functions with respect to another function and their applications Present new models for the anomalous relaxation and rheological behaviors This book serves as a reference book and textbook for scientists and engineers in the fields of mathematics physics chemistry and engineering senior undergraduate and graduate students Dr Xiao Jun Yang is a full professor of Applied Mathematics and Mechanics at China University of Mining and Technology China He is currently an editor of several scientific journals such as Fractals Applied Numerical Mathematics Mathematical Modelling and Analysis International Journal of Numerical Methods for Heat Fluid Flow and Thermal Science

Sampled-Data Models for Linear and Nonlinear Systems Juan I. Yuz, Graham C. Goodwin, 2013-10-17 Sampled data Models for Linear and Nonlinear Systems provides a fresh new look at a subject with which many researchers may think themselves familiar Rather than emphasising the differences between sampled data and continuous time systems the authors proceed from the premise that with modern sampling rates being as high as they are it is becoming more appropriate to emphasise connections and similarities The text is driven by three motives the ubiquity of computers in modern control and signal processing equipment means that sampling of systems that really evolve continuously is unavoidable although superficially straightforward sampling can easily produce erroneous results when not treated properly and the need for a thorough understanding of many aspects of sampling among researchers and engineers dealing with applications to which they are central The authors tackle many misconceptions which although appearing reasonable at first sight are in fact either partially or completely erroneous They also deal with linear and nonlinear deterministic and stochastic cases The impact of the ideas presented on several standard problems in signals and systems is illustrated using a number of applications Academic researchers and graduate students in systems control and signal processing will find the ideas presented in Sampled data Models for Linear and Nonlinear Systems to be a useful manual for dealing with sampled data systems clearing away mistaken ideas and bringing the subject thoroughly up to date Researchers in statistics and economics will also derive benefit from the reworking of ideas relating a model derived from data sampling to an original continuous system

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

Dynamical Systems José A. Tenreiro Machado, 2018-10-09 Printed Edition of the Special Issue Published in Entropy

Theoretical Developments and Applications of Non-Integer Order Systems Stefan Domek, Paweł Dworak, 2015-08-20 This volume is devoted to presentation of new results of research on systems of non integer order called also fractional systems Their analysis and practical implementation have been the object of spontaneous development for a few last decades The fractional order models can depict a physical plant better than the classical integer order ones This covers different research fields such as insulator properties visco elastic materials electrodynamic electrothermal electrochemical economic processes modelling etc On the other hand fractional controllers often outperform their integer order counterparts This volume contains new ideas and examples of implementation theoretical and pure practical aspects of using a non integer order calculus It is divided into four parts covering mathematical fundamentals modeling and approximations controllability observability and stability problems and practical applications of fractional control systems The first part expands the base of tools and methods of the mathematical basis for non integer order calculus Part two focuses on new methods and developments in process modeling and fractional derivatives approximations In the third part a bunch of papers which raise problems of controllability observability and stability of non integer order systems is provided Part four is devoted to presentation of different fractional order control applications This book was created thanks to many experts in the field of fractional calculus authors anonymous referees whose comments allowed us to improve the final form of the papers and active and inspiring discussion of the participants of RRNR 2015 the 7th Conference on Non Integer Order Calculus and Its Applications that was organized by the Faculty of Electrical Engineering West Pomeranian University of Technology Szczecin Poland

Advanced Synchronization Control and Bifurcation of Chaotic Fractional-Order Systems Boulkroune, Abdesslem, Ladaci, Samir, 2018-05-11 In the recent years fractional order systems have been studied by many researchers in the engineering field It was found that many systems can be described more accurately by fractional differential equations than by integer order models Advanced

Synchronization Control and Bifurcation of Chaotic Fractional Order Systems is a scholarly publication that explores new developments related to novel chaotic fractional order systems control schemes and their applications. Featuring coverage on a wide range of topics including chaos synchronization, nonlinear control, and cryptography, this publication is geared toward engineers, IT professionals, researchers, and upper level graduate students seeking current research on chaotic fractional order systems and their applications in engineering and computer science.

Emerging Trends in Sliding Mode Control
Axaykumar Mehta, Bijan Bandyopadhyay, 2020-12-21

This book compiles recent developments on sliding mode control theory and its applications. Each chapter presented in the book proposes new dimension in the sliding mode control theory such as higher order sliding mode control, event triggered sliding mode control, networked control, higher order discrete time sliding mode control, and sliding mode control for multi agent systems. Special emphasis has been given to practical solutions to design involving new types of sliding mode control. This book is a reference guide for graduate students and researchers working in the domain for designing sliding mode controllers. The book is also useful to professional engineers working in the field to design robust controllers for various applications.

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