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New Trends in Nanotechnology and Fractional Calculus Applications

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New Trends In Nanotechnology And Fractional Calculus Applications

José A. Tenreiro Machado



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,Bijnan 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 **Nonlinear**

Analysis: Problems, Applications and Computational Methods Zakia Hammouch,Hemen Dutta,Said Melliani,Michael Ruzhansky,2020-11-13 This book is a collection of original research papers as proceedings of the 6th International Congress of the Moroccan Society of Applied Mathematics organized by Sultan Moulay Slimane University Morocco during 7th 9th November 2019 It focuses on new problems applications and computational methods in the field of nonlinear analysis It includes various topics including fractional differential systems of various types time fractional systems nonlinear Jerk equations reproducing kernel Hilbert space method thrombin receptor activation mechanism model labour force evolution model nonsmooth vector optimization problems anisotropic elliptic nonlinear problem viscous primitive equations of geophysics quadratic optimal control problem multi orthogonal projections and generalized continued fractions The conference aimed at fostering cooperation among students researchers and experts from diverse areas of applied mathematics and related sciences through fruitful deliberations on new research findings This book is expected to be resourceful for researchers educators and graduate students interested in applied mathematics and interactions of mathematics with other branches of science and engineering *Fractional-order Modeling of Nuclear Reactor: From Subdiffusive Neutron Transport to Control-oriented Models* Vishwesh Vyawahare,Paluri S. V. Nataraj,2018-02-03 This book addresses the topic of fractional order modeling of nuclear reactors Approaching neutron transport in the reactor core as anomalous diffusion specifically subdiffusion it starts with the development of fractional order neutron telegraph equations Using a systematic approach the book then examines the development and analysis of various fractional order models representing nuclear reactor dynamics ultimately leading to the fractional order linear and nonlinear control oriented models The book utilizes the mathematical tool of fractional calculus the calculus of derivatives and integrals with arbitrary non

integer orders real or complex which has recently been found to provide a more compact and realistic representation to the dynamics of diverse physical systems Including extensive simulation results and discussing important issues related to the fractional order modeling of nuclear reactors the book offers a valuable resource for students and researchers working in the areas of fractional order modeling and control and nuclear reactor modeling Theory and Applications of Non-integer Order Systems Artur Babiarz,Adam Czornik,Jerzy Klamka,Michał Niezabitowski,2016-09-15 This book collects papers from the 8th Conference on Non Integer Order Calculus and Its Applications that have been held on September 20 21 2016 in Zakopane Poland The preceding two conferences were held in Szczecin Poland in 2015 and in Opole Poland in 2014 This conference provides a platform for academic exchange on the theory and application of fractional calculus between domestic and international universities research institutes corporate experts and scholars The Proceedings of the 8th Conference on Non Integer Order Calculus and Its Applications 2016 brings together rigorously reviewed contributions from leading international experts The included papers cover novel various important aspects of mathematical foundations of fractional calculus modeling and control of fractional systems as well as controllability detectability observability and stability problems for this systems **Advanced Lasers** Oleksiy Shulika,Igor Sukhoivanov,2015-04-28 Presenting a blend of applied and fundamental research in highly interdisciplinary subjects of rapidly developing areas this book contains contributions on the frontiers and hot topics of laser physics laser technology and laser engineering and covers a wide range of laser topics from all optical signal processing and chaotic optical communication to production of superwicking surfaces correction of extremely high power beams and generation of ultrabroadband spectra It presents both review type contributions and well researched and documented case studies and is intended for graduate students young scientist and emeritus scientist working studying in laser physics optoelectronics optics photonics and adjacent areas The book contains both experimental and theoretical studies as well as combinations of these two which is known to be a most useful and interesting form of reporting scientific results allowing students to really learn from each contribution The book contains over 130 illustrations

Advances in Non-Integer Order Calculus and Its Applications Agnieszka B. Malinowska,Dorota Mozyrska,Łukasz Sajewski,2019-04-17 This book provides an overview of some recent findings in the theory and applications of non integer order systems Discussing topics ranging from the mathematical foundations to technical applications of continuous time and discrete time fractional calculus it includes 22 original research papers and is subdivided into four parts Mathematical Foundations Approximation Modeling and Simulations Fractional Systems Analysis and Control Applications The papers were selected from those presented at the 10th International Conference of Non integer Order Calculus and its Applications which was held at the Bialystok University of Technology Poland September 20 21 2018 Thanks to the broad spectrum of topics covered the book is suitable for researchers from applied mathematics and engineering It is also a valuable resource for graduate students as well as for scholars looking for new mathematical tools *Mathematical Modeling, Computational*

Intelligence Techniques and Renewable Energy Manoj Sahni, José M. Merigó, Brajesh Kumar Jha, Rajkumar Verma, 2021-02-28 This book presents new knowledge and recent developments in all aspects of computational techniques mathematical modeling energy systems applications of fuzzy sets and intelligent computing The book is a collection of best selected research papers presented at the International Conference on Mathematical Modeling Computational Intelligence Techniques and Renewable Energy organized by the Department of Mathematics Pandit Deendayal Petroleum University in association with Forum for Interdisciplinary Mathematics Institution of Engineers IEI Gujarat and Computer Society of India CSI Ahmedabad The book provides innovative works of researchers academicians and students in the area of interdisciplinary mathematics statistics computational intelligence and renewable energy

Fractional Dynamics and Control Dumitru Baleanu, José António Tenreiro Machado, Albert C. J. Luo, 2011-11-19 Fractional Dynamics and Control provides a comprehensive overview of recent advances in the areas of nonlinear dynamics vibration and control with analytical numerical and experimental results This book provides an overview of recent discoveries in fractional control delves into fractional variational principles and differential equations and applies advanced techniques in fractional calculus to solving complicated mathematical and physical problems Finally this book also discusses the role that fractional order modeling can play in complex systems for engineering and science

Sliding Modes after the first Decade of the 21st Century Leonid Fridman, Jaime Moreno, Rafael Iriarte, 2011-09-10 The book presents the newest results of the major world research groups working in the area of Variable Structure Systems and Sliding Mode Control VSS SMC The research activity of these groups is coordinated by the IEEE Technical Committee on Variable Structure Systems VSS and Sliding Modes SM The presented results include the reports of the research groups collaborating in a framework of the Uni n European Union M xico project of Fondo de Cooperaci n Internacional en Ciencia y Tecnolog a FONCICyT 93302 titled Automatization and Monitoring of Energy Production Processes via Sliding Mode Control The book starts with the overview of the sliding mode control concepts and algorithms that were developed and discussed in the last two decades The research papers are combined in three sections Part I VSS and SM Algorithms and their Analysis Part II SMC Design Part III Applications of VSS and SMC The book will be of interests of engineers researchers and graduate students working in the area of the control systems design Novel mathematical theories and engineering concepts of control systems are rigorously discussed and supported by numerous applications to practical tasks

Congress on Intelligent Systems Harish Sharma, Mukesh Saraswat, Anupam Yadav, Joong Hoon Kim, Jagdish Chand Bansal, 2021-06-01 This book is a collection of selected papers presented at the First Congress on Intelligent Systems CIS 2020 held in New Delhi India during September 5 6 2020 It includes novel and innovative work from experts practitioners scientists and decision makers from academia and industry It covers topics such as Internet of Things information security embedded systems real time systems cloud computing big data analysis quantum computing automation systems bio inspired intelligence cognitive systems cyber physical systems data

analytics data web mining data science intelligence for security intelligent decision making systems intelligent information processing intelligent transportation artificial intelligence for machine vision imaging sensors technology image segmentation convolutional neural network image video classification soft computing for machine vision pattern recognition human computer interaction robotic devices and systems autonomous vehicles intelligent control systems human motor control game playing evolutionary algorithms swarm optimization neural network deep learning supervised learning unsupervised learning fuzzy logic rough sets computational optimization and neuro fuzzy systems Fractional Dynamical Systems: Methods, Algorithms and Applications Piotr Kulczycki, Józef Korbicz, Janusz Kacprzyk, 2022-01-04 This book presents a wide and comprehensive spectrum of issues and problems related to fractional order dynamical systems It is meant to be a full fledge comprehensive presentation of many aspects related to the broadly perceived fractional order dynamical systems which constitute an extension of the traditional integer order type descriptions This implies far reaching consequences both analytic and algorithmic because in general properties of the traditional integer order systems cannot be directly extended by a straightforward generalization to fractional order systems modeled by fractional order differential equations involving derivatives of a non integer order This can be useful for describing and analyzing for instance anomalies in the behavior of various systems chaotic behavior etc The book contains both analytic contributions with state of the art and theoretical foundations algorithmic implementation of tools and techniques and finally some examples of relevant and successful practical applications

Enjoying the Song of Phrase: An Psychological Symphony within **New Trends In Nanotechnology And Fractional Calculus Applications**

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