

Signals and Communication Technology

Hu Sheng  
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# Fractional Processes and Fractional-Order Signal Processing

Techniques and Applications

 Springer

# Fractional Processes And Fractional Order Signal Processing Techniques And Applications Signals And Communication Technology

**Qilian Liang,Jiasong Mu,Min Jia,Wei  
Wang,Xuhong Feng,Baoju Zhang**

## **Fractional Processes And Fractional Order Signal Processing Techniques And Applications Signals And Communication Technology:**

**Fractional Processes and Fractional-Order Signal Processing** Hu Sheng, YangQuan Chen, TianShuang Qiu, 2011-10-20 Fractional processes are widely found in science technology and engineering systems In Fractional Processes and Fractional order Signal Processing some complex random signals characterized by the presence of a heavy tailed distribution or non negligible dependence between distant observations local and long memory are introduced and examined from the fractional perspective using simulation fractional order modeling and filtering and realization of fractional order systems These fractional order signal processing FOSP techniques are based on fractional calculus the fractional Fourier transform and fractional lower order moments Fractional Processes and Fractional order Signal Processing presents fractional processes of fixed variable and distributed order studied as the output of fractional order differential systems introduces FOSP techniques and the fractional signals and fractional systems point of view details real world application examples of FOSP techniques to demonstrate their utility and provides important background material on Mittag Leffler functions the use of numerical inverse Laplace transform algorithms and supporting MATLAB codes together with a helpful survey of relevant webpages Readers will be able to use the techniques presented to re examine their signals and signal processing methods This text offers an extended toolbox for complex signals from diverse fields in science and engineering It will give academic researchers and practitioners a novel insight into the complex random signals characterized by fractional properties and some powerful tools to analyze those signals

**Fractional Signals and Systems** Manuel Duarte Ortigueira, Duarte Valério, 2020-03-09 The book illustrates the theoretical results of fractional derivatives via applications in signals and systems covering continuous and discrete derivatives and the corresponding linear systems Both time and frequency analysis are presented Some advanced topics are included like derivatives of stochastic processes It is an essential reference for researchers in mathematics physics and engineering

**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 fledged 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      *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      **Basic Theory** Anatoly Kochubei, Yuri Luchko, 2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects      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      Cyber-Physical Systems: Metrological Issues Svyatoslav Yatsyshyn, Bohdan Stadnyk, 2016-10-27 This book presents and considers main trends in the branch of metrology of cyber physical systems which are becoming a key element of everyday life First of all it is destined for engineers lecturers students persons who are not acquainted enough with specificity of cyber physical systems and their metrology but are interested in it The authors

tried to highlight emergence and development of these systems combined with the study of their metrology provision and support     **Applications in Engineering, Life and Social Sciences, Part B** Dumitru Băleanu,António Mendes

Lopes,2019-04-01 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This eighth volume collects authoritative chapters covering several applications of fractional calculus in engineering life and social sciences including applications in signal and image analysis and chaos     Digital Control and Signal Processing Systems and Techniques ,1996-07-30 Praise for the Series This book will be a useful reference to control engineers and researchers The papers contained cover well the recent advances in the field of modern control theory IEEE Group CorrespondenceThis book will help all those researchers who valiantly try to keep abreast of what is new in the theory and practice of optimal control Control     Integral Methods in Science and Engineering Christian Constanda,Bardo E.J. Bodmann,Haroldo F. de Campos Velho,2013-08-13 Advances in science and technology are driven by the development of rigorous mathematical foundations for the study of both theoretical and experimental models With certain methodological variations this type of study always comes down to the application of analytic or computational integration procedures making such tools indispensable With a wealth of cutting edge research in the field Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques provides a detailed portrait of both the construction of theoretical integral techniques and their application to specific problems in science and engineering The chapters in this volume are based on talks given by well known researchers at the Twelfth International Conference on Integral Methods in Science and Engineering July 23 27 2012 in Porto Alegre Brazil They address a broad range of topics from problems of existence and uniqueness for singular integral equations on domain boundaries to numerical integration via finite and boundary elements conservation laws hybrid methods and other quadrature related approaches The contributing authors bring their expertise to bear on a number of topical problems that have to date resisted solution thereby offering help and guidance to fellow professionals worldwide Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques will be a valuable resource for researchers in applied mathematics physics and mechanical and electrical engineering for graduate students in these disciplines and for various other professionals who use integration as an essential tool in their work     *Nonlinear Dynamical Systems with Self-Excited and Hidden Attractors* Viet-Thanh Pham,Sundarapandian Vaidyanathan,Christos Volos,Tomasz Kapitaniak,2018-02-26 This book highlights the latest findings on nonlinear dynamical systems including two types of attractors self excited and hidden attractors Further it presents both theoretical and practical approaches to investigating nonlinear dynamical systems with self excited and hidden attractors The book includes 20 chapters contributed by respected experts which focus on various applications such as biological systems memristor based systems fractional order systems finance systems business cycles oscillators coupled systems hyperchaotic systems flexible robot manipulators electronic circuits and control models Special attention is given to modeling design

circuit realization and practical applications to address recent research problems in nonlinear dynamical systems The book provides a valuable reference guide to nonlinear dynamical systems for engineers researchers and graduate students especially those whose work involves mechanics electrical engineering and control systems

*Non-Integer Order Calculus and its Applications* Piotr Ostalczyk, Dominik Sankowski, Jacek Nowakowski, 2018-03-22 This book focuses on fractional calculus presenting novel advances in both the theory and applications of non integer order systems At the end of the twentieth century it was predicted that it would be the calculus of the twenty first century and that prophecy is confirmed year after year Now this mathematical tool is successfully used in a variety of research areas like engineering e g electrical mechanical chemical dynamical systems modeling analysis and synthesis e g technical biological economical as well as in multidisciplinary areas e g biochemistry electrochemistry As well as the mathematical foundations the book concentrates on the technical applications of continuous time and discrete time fractional calculus investigating the identification analysis and control of electrical circuits and dynamical systems It also presents the latest results Although some scientific centers and scientists are skeptical and actively criticize the applicability of fractional calculus it is worth breaking through the scientific and technological walls Because the fractional community is growing rapidly there is a pressing need for the exchange of scientific results The book includes papers presented at the 9th International Conference on Non integer Order Calculus and Its Applications and is divided into three parts Mathematical foundations Fractional systems analysis and synthesis System modeling Seven papers discuss the mathematical foundations twelve papers address fractional order analysis and synthesis and three focus on dynamical system modeling by the fractional order differential and difference equations It is a useful resource for fractional calculus scientific community

**The Proceedings of 2024 International Conference on Artificial Intelligence and Autonomous Transportation** Limin Jia, Dongxiu Ou, Hui Liu, Fang Zong, Pangwei Wang, Mingfang Zhang, 2025-05-01 This book reflects the latest research trends methods and experimental results in the field of Artificial Intelligence and Autonomous Transportation which covers abundant state of the art research theories and ideas As a vital research area that is highly relevant to current developments in a number of technological domains the topics covered include Autonomous Transportation Systems Autonomous Transportation Management and Control Technology Autonomous Transportation Equipment Technology Vehicular Networking and Information Security Emerging Technologies and Future Mobility Intelligent water transportation technology Cross Domain Transportation Technology and so on The goal of the proceedings is to provide a major interdisciplinary forum for researchers engineers academics and industry professionals to present the most innovative research and development in the field of Artificial Intelligence and Autonomous Transportation Engineers and researchers from academia industry and government will also explore an insight view of the solutions that combine ideas from multiple disciplines in this area The volumes serve as an excellent reference work for researchers and graduate students working in the areas of rail transportation electrical

engineering and information technology      *Transforms and Applications Handbook* Alexander D. Poularikas, 2018-09-03  
Updating the original *Transforms and Applications Handbook* Third Edition solidifies its place as the complete resource on those mathematical transforms most frequently used by engineers scientists and mathematicians Highlighting the use of transforms and their properties this latest edition of the bestseller begins with a solid introduction to signals and systems including properties of the delta function and some classical orthogonal functions It then goes on to detail different transforms including lapped Mellin wavelet and Hartley varieties Written by top experts each chapter provides numerous examples and applications that clearly demonstrate the unique purpose and properties of each type The material is presented in a way that makes it easy for readers from different backgrounds to familiarize themselves with the wide range of transform applications Revisiting transforms previously covered this book adds information on other important ones including Finite Hankel Legendre Jacobi Gengenbauer Laguerre and Hermite Fraction Fourier Zak Continuous and discrete Chirp Fourier Multidimensional discrete unitary Hilbert Huang Most comparable books cover only a few of the transforms addressed here making this text by far the most useful for anyone involved in signal processing including electrical and communication engineers mathematicians and any other scientist working in this field      **Communications, Signal Processing, and Systems** Qilian Liang, Jiasong Mu, Min Jia, Wei Wang, Xuhong Feng, Baoju Zhang, 2018-06-07 This book brings together papers presented at the 2017 International Conference on Communications Signal Processing and Systems ICCSP 2017 which was held on July 14 17 2017 in Harbin China Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications signal processing and systems It is aimed at undergraduate and graduate electrical engineering computer science and mathematics students researchers and engineers from academia and industry as well as government employees      *Advances in Signal Processing and Communication Engineering* Pradip Kumar Jain, Yatindra Nath Singh, Ravi Paul Gollapalli, S. P. Singh, 2024-07-03 This book comprises select proceedings of the International Conference on Advances in Signal Processing and Communication Engineering ICASPACE 2023 The book covers several theoretical and mathematical approaches addressing day to day challenges in signal image and speech processing and advanced communication systems It primarily focuses on effective mathematical methods algorithms and models that enhance the performance of existing systems The topics covered in the book are advances in signal processing radar and biomedical image processing speech processing technical and environmental challenges in 5G technology and strategies for optimal utilization of resources to improve the efficacy of the communication systems in terms of bandwidth and radiating power etc The works published in the book will remarkably be helpful to prospective scholars academicians and students seeking knowledge in signal processing and communication engineering      **Advances in Chaos Theory and Intelligent Control** Ahmad Taher Azar, Sundarapandian Vaidyanathan, 2016-04-15 The book reports on the latest advances in and applications of chaos theory and intelligent control

Written by eminent scientists and active researchers and using a clear matter of fact style it covers advanced theories methods and applications in a variety of research areas and explains key concepts in modeling analysis and control of chaotic and hyperchaotic systems Topics include fractional chaotic systems chaos control chaos synchronization memristors jerk circuits chaotic systems with hidden attractors mechanical and biological chaos and circuit realization of chaotic systems The book further covers fuzzy logic controllers evolutionary algorithms swarm intelligence and petri nets among other topics Not only does it provide the readers with chaos fundamentals and intelligent control based algorithms it also discusses key applications of chaos as well as multidisciplinary solutions developed via intelligent control The book is a timely and comprehensive reference guide for graduate students researchers and practitioners in the areas of chaos theory and intelligent control

**Intelligent Systems** Cornelius T. Leondes, 2018-10-08 Intelligent systems or artificial intelligence technologies are playing an increasing role in areas ranging from medicine to the major manufacturing industries to financial markets The consequences of flawed artificial intelligence systems are equally wide ranging and can be seen for example in the programmed trading driven stock market crash of October 19 1987 Intelligent Systems Technology and Applications Six Volume Set connects theory with proven practical applications to provide broad multidisciplinary coverage in a single resource In these volumes international experts present case study examples of successful practical techniques and solutions for diverse applications ranging from robotic systems to speech and signal processing database management and manufacturing

**Signal Processing and Data Analysis** Tianshuang Qiu, Ying Guo, 2018-07-09 This book presents digital signal processing theories and methods and their applications in data analysis error analysis and statistical signal processing Algorithms and Matlab programming are included to guide readers step by step in dealing with practical difficulties Designed in a self contained way the book is suitable for graduate students in electrical engineering information science and engineering in general

**Fractal Teletraffic Modeling and Delay Bounds in Computer Communications** Ming Li, 2022-05-04 By deploying time series analysis Fourier transform functional analysis min plus convolution and fractional order systems and noise this book proposes fractal traffic modeling and computations of delay bounds aiming to improve the quality of service in computer communication networks As opposed to traditional studies of teletraffic delay bounds the author proposes a novel fractional noise the generalized fractional Gaussian noise gfGn approach and introduces a new fractional noise generalized Cauchy GC process for traffic modeling Researchers and graduates in computer science applied statistics and applied mathematics will find this book beneficial Ming Li PhD is a professor at Ocean College Zhejiang University and the East China Normal University He has been an active contributor for many years to the fields of computer communications applied mathematics and statistics particularly network traffic modeling fractal time series and fractional oscillations He has authored more than 200 articles and 5 monographs on the subjects He was identified as the Most Cited Chinese Researcher by Elsevier in 2014 2020 Professor Li was recognized as a top 100 000 scholar in all fields in 2019 2020



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