

Signals and Communication Technology

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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

David Kirk



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 *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 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 an 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 **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 **Fractional Order Signal Processing** Saptarshi Das, Indranil Pan, 2011-09-15 The book tries to briefly introduce the diverse literatures in the field of fractional order signal processing which is becoming an emerging topic among an interdisciplinary community of researchers This book is aimed at postgraduate and beginning level research scholars who would like to work in the field of Fractional Order Signal processing FOSP The readers should have preliminary knowledge about basic signal processing techniques Prerequisite knowledge of fractional calculus is not essential and is expositied at relevant places in connection to the appropriate signal processing topics Basic signal processing techniques like filtering estimation system identification etc in the light of fractional order calculus are presented along with relevant application areas The readers can easily extend these concepts to varied disciplines like image or speech processing pattern recognition time series forecasting financial data analysis and modeling traffic modeling in communication channels optics biomedical signal processing electrochemical applications and many more Adequate references are provided in each category so that the researchers can delve deeper into each area and broaden their horizon of understanding Available MATLAB tools to simulate FOSP theories are also introduced so that the readers can apply the theoretical concepts right away and gain practical insight in the specific domain

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

Fractional Vibrations with Applications to Euler-Bernoulli Beams Ming Li, 2023-12-29 The book examines vibration phenomena with an emphasis on fractional vibrations using the functional form of linear vibrations with frequency dependent mass damping or stiffness covering the theoretical analysis potentially applicable to structures and in particular ship hulls Covering the six classes of fractional vibrators and seven classes of fractionally damped Euler Bernoulli beams that play a major role in hull vibrations this book presents analytical formulas of all results with concise expressions and elementary functions that set it apart from other recondite studies The results show that equivalent mass or damping can be negative and depends on fractional orders Other key highlights of the book include a concise mathematical explanation of the Rayleigh damping assumption a novel description of the nonlinearity of fractional vibrations and a new concept of fractional motion offering exciting additions to the field of fractional vibrations This title will be a must read for students mathematicians physicists and engineers interested in vibration phenomena and novel vibration performances especially

fractional vibrations Communications, Signal Processing, and Systems Wei Wang,Xin Liu,Zhenyu Na,Baoju Zhang,2024-02-29 This book brings together papers presented at the 2023 International Conference on Communications Signal Processing and Systems which provides a venue to disseminate the latest developments and to discuss the interactions and links between these multidisciplinary fields Spanning topics ranging from Communications Signal Processing and Systems this book is aimed at undergraduate and graduate students in Electrical Engineering Computer Science and Mathematics researchers and engineers from academia and industry as well as government employees such as NSF DOD DOE *Cyclostationary Processes and Time Series* Antonio Napolitano,2019-10-24 Many processes in nature arise from the interaction of periodic phenomena with random phenomena The results are processes that are not periodic but whose statistical functions are periodic functions of time These processes are called cyclostationary and are an appropriate mathematical model for signals encountered in many fields including communications radar sonar telemetry acoustics mechanics econometrics astronomy and biology *Cyclostationary Processes and Time Series Theory Applications and Generalizations* addresses these issues and includes the following key features Presents the foundations and developments of the second and higher order theory of cyclostationary signals Performs signal analysis using both the classical stochastic process approach and the functional approach for time series Provides applications in signal detection and estimation filtering parameter estimation source location modulation format classification and biological signal characterization Includes algorithms for cyclic spectral analysis along with Matlab Octave code Provides generalizations of the classical cyclostationary model in order to account for relative motion between transmitter and receiver and describe irregular statistical cyclicity in the data Handbook of Fourier Analysis & Its Applications Robert J. Marks,2009-01-08 This practical applications based professional handbook comprehensively covers the theory and applications of Fourier Analysis spanning topics from engineering mathematics signal processing and related multidimensional transform theory and quantum physics to elementary deterministic finance and even the foundations of western music theory **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 **Radar Detection Theory of Sliding Window Processes** Graham Weinberg,2017-09-27 Constant false alarm rate detection processes are important in radar signal processing Such detection strategies are used as an alternative to optimal Neyman Pearson based decision rules since they can be implemented as a sliding window process running on a radar range Doppler map This book

examines the development of such detectors in a modern framework With a particular focus on high resolution X band maritime surveillance radar recent approaches are outlined and examined Performance is assessed when the detectors are run in real X band radar clutter The book introduces relevant mathematical tools to allow the reader to understand the development and follow its implementation

Generalizations of Cyclostationary Signal Processing Antonio Napolitano, 2012-12-07 The relative motion between the transmitter and the receiver modifies the nonstationarity properties of the transmitted signal In particular the almost cyclostationarity property exhibited by almost all modulated signals adopted in communications radar sonar and telemetry can be transformed into more general kinds of nonstationarity A proper statistical characterization of the received signal allows for the design of signal processing algorithms for detection estimation and classification that significantly outperform algorithms based on classical descriptions of signals Generalizations of Cyclostationary Signal Processing addresses these issues and includes the following key features Presents the underlying theoretical framework accompanied by details of their practical application for the mathematical models of generalized almost cyclostationary processes and spectrally correlated processes two classes of signals finding growing importance in areas such as mobile communications radar and sonar Explains second and higher order characterization of nonstationary stochastic processes in time and frequency domains Discusses continuous and discrete time estimators of statistical functions of generalized almost cyclostationary processes and spectrally correlated processes Provides analysis of mean square consistency and asymptotic Normality of statistical function estimators Offers extensive analysis of Doppler channels owing to the relative motion between transmitter and receiver and or surrounding scatterers Performs signal analysis using both the classical stochastic process approach and the functional approach where statistical functions are built starting from a single function of time

Signal and Information Processing, Networking and Computers Yue Wang, Jiaqi Zou, Lexi Xu, Zhilei Ling, Xinzhou Cheng, 2024-05-02 This book collects selected papers from the 11th Conference on Signal and Information Processing Networking and Computers held in Chengdu China in September 2023 The book focuses on the current works of information theory communication system computer science aerospace technologies big data and other related technologies People from both academia and industry of these fields can contribute and find their interests from the book The 11th International Conference on Signal and Information Processing Networking and Computers ICSINC was held in Chengdu China in September 2023 which focused on the key technologies and challenges of signal and information processing schemes network application computer theory space technologies big data and other related technologies

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 Fourth International Congress on Information and Communication Technology Xin-She Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2019-11-30 This book gathers selected high quality research papers presented at the Fourth International Congress on Information and Communication Technology held at Brunel University London on February 27 28 2019 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of things IoT and e mining Written by respected experts and researchers working on ICT the book offers a valuable asset for young researchers involved in advanced studies **Principles and Applications of RELAX: A Robust and Universal Estimator** Renbiao Wu, Qiongqiong Jia, Lei Yang, Qing Feng, 2019-03-27 The multiple signal demixing and parameter estimation problems that result from the impacts of background noise and interference are issues that are frequently encountered in the fields of radar sonar communications and navigation Research in the signal processing and control fields has always focused on improving the estimation performance of parameter estimation methods at low SNR and maintaining the robustness of estimations in the presence of model errors This book presents a universal and robust relaxation estimation method RELAX and introduces its basic principles and applications in the fields of classical line spectrum estimation time of delay estimation DOA estimation and radar target imaging This information is explained comprehensively and in great detail and uses metaphors pertaining to romantic relationships to visualize the basic problems of parameter estimation the basic principles of the five types of classical parameter estimation methods and the relationships between these principles The book serves as a reference for scientists and technologists in the fields of signal processing and control while also providing relevant information for graduate students in the related fields

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