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Saptarshi Das · Indranil Pan

Fractional Order Signal Processing Introductory Concepts and Applications

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**Hu Sheng, YangQuan Chen, TianShuang
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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 expounded 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 Fractional Order Signal Processing ,2011-09-15

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 Processes and Fractional-Order Signal Processing** ,2011-10-01

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