

W eighted-Type Fractional Fourier Transform and
Its Applications in Communications Systems

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Fractional Fourier Transform Principle And Its Application In Communication Systemschinese Edition

Jörg Lange, Tatjana Lange



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Mathematical Reviews, 2004 *The Fractional Fourier Transform with Applications in Optics and Signal Processing*
Haldun M. Ozaktas, 2001 **Fractional Fourier Transform and Time-frequency Analysis and Apply to Acoustic Signals** 0000, 2008 **Fourier Transformation for Signal and System Description** Jörg Lange, Tatjana Lange, 2022-12-20

The authors explain the Fourier transform and its technical applications especially in signal and system theory Based on their many years of teaching experience they aim at helping especially STEM science technology engineering and mathematics students as well as graduated professionals to better understand the subject The authors also point out the importance of a deeper understanding as all modern digital technologies such as sound and image recording and storage radio and television mobile telephony signal transmission for the Internet modern control techniques for vehicles or aircrafts are largely based on the Fourier transform The Authors Prof Dr Ing habil J rg Lange held a leading position in the development area of mobile communications in a large technology company Prof Dr Ing Tatjana Lange taught control systems engineering at Merseburg University of Applied Sciences and is still active in research in the area of classification and cluster analysis This Springer essential is a translation of the original German 1st edition essentials Fourier Transformation zur Signal und Systembeschreibung by J rg Lange and Tatjana Lange published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2019 The translation was done with the help of artificial intelligence machine translation by the service DeepL com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors **The Centered Discrete Fractional Fourier Transform, Properties, Computation, and Application to Linear Chirp Signals** Juan G. Vargas-Rubio, 2004 **Fast Fourier Transform - Algorithms and Applications** K.R. Rao, Do Nyeon Kim, Jae Jeong Hwang, 2011-02-21 This book presents an introduction to the principles of the fast Fourier transform This book covers FFTs frequency domain filtering and applications to video and audio signal processing As fields like communications speech and image processing and related areas are rapidly developing the FFT as one of essential parts in digital signal processing has been widely used Thus there is a pressing need from instructors and students for a book dealing with the latest FFT topics This book provides thorough and detailed explanation of important or up to date FFTs It also has adopted modern approaches like MATLAB examples and projects for better understanding of diverse FFTs *The Fractional Fourier Transform and Its Application to Fault Signal Analysis* Xiao Duan, 2012 To a large extent mathematical transforms are applied on a signal to uncover information that is concealed and the capability of such transforms is valuable for signal processing One such transforms widely used in this area is the conventional Fourier Transform FT which decomposes a stationary signal into different frequency components However a major drawback of the conventional transform is that it does not easily render itself to the analysis of non stationary signals

such as a frequency modulated FM or amplitude modulated AM signal. The different frequency components of complex signals cannot be easily distinguished and separated from one another using the conventional FT. So in this thesis an innovative mathematical transform Fractional Fourier Transform FRFT has been considered which is more suitable to process non stationary signals such as FM signals and has the capability not only of distinguishing different frequency components of a multi component signal but also separating them in a proper domain different than the traditional time or frequency domain. The discrete time FRFT DFRFT developed along with its derivatives such as Multi angle DFRFT MA DFRFT Slanted Spectrum and Spectrogram Based on Slanted Spectrum SBSS are tools belonging to the same FRFT family and they could provide an effective approach to identify unknown signals and distinguish the different frequency components contained therein. Both artificial stationary and FM signals have been researched using the DFRFT and some derivative tools from the same family. Moreover to accomplish a contrast with the traditional tools such as FFT and STFT performance comparisons are shown to support the DFRFT as an effective tool in multi component chirp signal analysis. The DFRFT taken at the optimum transform order on a single component FM signal has provided higher degree of signal energy concentration compared to FFT results and the Slanted Spectrum taken along the slant line obtained from the MA DFRFT demonstration has shown much better discrimination between different frequency components of a multi component FM signal. As a practical application of these tools the motor current signal has been analyzed using the DFRFT and other tools from FRFT family to detect the presence of a motor bearing fault and obtain the fault signature frequency. The conclusion drawn about the applicability of DFRFT and other derivative tools on AM signals with very slowly varying FM phenomena was not encouraging. Tools from the FRFT family appear more effective on FM signals whereas AM signals are more effectively analyzed using traditional methods like spectrogram or its derivatives. Such methods are able to identify the signature frequency of faults while using less computational time and memory.

Research of Fractional Fourier Transform and Linear Canonical Transform [1],2001 Fractional Fourier Transform & Its Optical Applications Hossein Sarafriz Yazdi,2012. A definition of fractional Fourier transform as the generalization of ordinary Fourier transform is given at the beginning. Then due to optical reasons the fractional transform of a so called chirp functions is considered in both theory and practical simulations. Because of a quadratic phase factor which is common in the definition of the transform and some optical concepts a comparison between these concepts such as Fresnel diffraction spherical wave thin lens and free space propagation and the transform has been done. Finally an optical setup for performing the fractional transform is introduced.

Fractional Fourier Transform Cassandra Haak,1997 *Fourier Transform* Salih Salih,2012-04-11. The field of signal processing has seen explosive growth during the past decades almost all textbooks on signal processing have a section devoted to the Fourier transform theory. For this reason this book focuses on the Fourier transform applications in signal processing techniques. The book chapters are related to DFT FFT OFDM estimation techniques and the image processing

techniques It is hoped that this book will provide the background references and the incentive to encourage further research and results in this area as well as provide tools for practical applications It provides an applications oriented to signal processing written primarily for electrical engineers communication engineers signal processing engineers mathematicians and graduate students will also find it useful as a reference for their research activities **Solutions**

Manual to Accompany the Fourier Transform and Its Applications Ronald Newbold Bracewell,1978 **The Fourier Transform and Its Applications** Ronald Newbold Bracewell,1963 **Introduction to Fractional Fourier Transform**

Pooja Mohindru,Rajesh Khanna,S.S. Bhatia,2013 This book gives an introduction to Fractional Fourier Transform Fractional Fourier Transform has one extra degree of freedom that comes from the rotation angle parameter It can be used in every area where ordinary Fourier transform can be used and provides better results This book is useful for engineering students in the field of electronics and communication The language is simple and easy to understand *The Nonuniform Discrete*

Fourier Transform and Its Applications in Signal Processing Sonali Bagchi,1994 **The Fast Fourier Transform and Its Applications** E. Oran Brigham,1988 The Fast Fourier Transform FFT is a mathematical method widely used in signal processing This book focuses on the application of the FFT in a variety of areas Biomedical engineering mechanical analysis analysis of stock market data geophysical analysis and the conventional radar communications field **The Nonuniform**

Discrete Fourier Transform and Its Applications in Signal Processing Sonali Bagchi,Sanjit Kumar Mitra,2011-05-26 The growth in the field of digital signal processing began with the simulation of continuous time systems in the 1950s even though the origin of the field can be traced back to 400 years when methods were developed to solve numerically problems such as interpolation and integration During the last 40 years there have been phenomenal advances in the theory and application of digital signal processing In many applications the representation of a discrete time signal or a system in the frequency domain is of interest To this end the discrete time Fourier transform DTFT and the z transform are often used In the case of a discrete time signal of finite length the most widely used frequency domain representation is the discrete Fourier transform DFT which results in a finite length sequence in the frequency domain The DFT is simply composed of the samples of the DTFT of the sequence at equally spaced frequency points or equivalently the samples of its z transform at equally spaced points on the unit circle The DFT provides information about the spectral contents of the signal at equally spaced discrete frequency points and thus can be used for spectral analysis of signals Various techniques commonly known as the fast Fourier transform FFT algorithms have been advanced for the efficient computation of the DFT An important tool in digital signal processing is the linear convolution of two finite length signals which often can be implemented very efficiently using the DFT **The Nonuniform Discrete Fourier Transform and Its Applications in Signal Processing** Sonali Bagchi,Sanjit Kumar Mitra,2012-10-08 The growth in the field of digital signal processing began with the simulation of continuous time systems in the 1950s even though the origin of the field can be traced back to 400 years when methods were

developed to solve numerically problems such as interpolation and integration During the last 40 years there have been phenomenal advances in the theory and application of digital signal processing In many applications the representation of a discrete time signal or a system in the frequency domain is of interest To this end the discrete time Fourier transform DTFT and the z transform are often used In the case of a discrete time signal of finite length the most widely used frequency domain representation is the discrete Fourier transform DFT which results in a finite length sequence in the frequency domain The DFT is simply composed of the samples of the DTFT of the sequence at equally spaced frequency points or equivalently the samples of its z transform at equally spaced points on the unit circle The DFT provides information about the spectral contents of the signal at equally spaced discrete frequency points and thus can be used for spectral analysis of signals Various techniques commonly known as the fast Fourier transform FFT algorithms have been advanced for the efficient computation of the DFT An important tool in digital signal processing is the linear convolution of two finite length signals which often can be implemented very efficiently using the DFT

The Sparse Fourier Transform Haitham Hassanieh, 2018-02-27 The Fourier transform is one of the most fundamental tools for computing the frequency representation of signals It plays a central role in signal processing communications audio and video compression medical imaging genomics astronomy as well as many other areas Because of its widespread use fast algorithms for computing the Fourier transform can benefit a large number of applications The fastest algorithm for computing the Fourier transform is the Fast Fourier Transform FFT which runs in near linear time making it an indispensable tool for many applications However today the runtime of the FFT algorithm is no longer fast enough especially for big data problems where each dataset can be few terabytes Hence faster algorithms that run in sublinear time i.e. do not even sample all the data points have become necessary This book addresses the above problem by developing the Sparse Fourier Transform algorithms and building practical systems that use these algorithms to solve key problems in six different applications wireless networks mobile systems computer graphics medical imaging biochemistry and digital circuits This is a revised version of the thesis that won the 2016 ACM Doctoral Dissertation Award

Fourier Transform Salih Salih, 2012-04-11 The field of signal processing has seen explosive growth during the past decades almost all textbooks on signal processing have a section devoted to the Fourier transform theory For this reason this book focuses on the Fourier transform applications in signal processing techniques The book chapters are related to DFT FFT OFDM estimation techniques and the image processing techniques It is hoped that this book will provide the background references and the incentive to encourage further research and results in this area as well as provide tools for practical applications It provides an applications oriented to signal processing written primarily for electrical engineers communication engineers signal processing engineers mathematicians and graduate students will also find it useful as a reference for their research activities

Fractional Fourier Transform Principle And Its Application In Communication Systemschinese Edition Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Fractional Fourier Transform Principle And Its Application In Communication Systemschinese Edition**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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