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Filtering in Fractional
Frequency domain □ tutorial 3: filtering
(periodic signals) Wonderful Fractional
Fourier Transform ~~Low Pass Filter in~~
~~Fourier Domain Using MATLAB~~ DT
Fourier Transform-Ideal Filters
~~Communicating Radar Technology~~
~~using Fractional Fourier Transform~~
~~Division Multiplexing~~ Tuning of FIR

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filter transition bandwidth using
fractional Fourier transform (latest
Project 2020) Designing Digital Filters
with MATLAB DSP Lecture 15:
Multirate signal processing and
polyphase representations DIP
Lecture 8: Frequency domain filtering;
sampling and aliasing A Frequency-

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Domain Digital Filter Design Criteria In
Depth - Base Theory, Design \u0026amp;
Examples of Digital Filtering - FIR
Filters for Audio (and beyond) Tutorial
~~41 - Image filtering using Fourier
transform in python~~ Fourier Transform,
Fourier Series, and frequency
spectrum Fourier Series: Modeling

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Fourier transforms in image
processing (Maths Relevance)

A fractional fourier transform algorithm
for holographic display ~~Simple and
Easy Tutorial on FFT Fast Fourier
Transform Matlab Part 1 The Fourier
Transform in 15 Minutes Frequency~~

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~~Filtering in Adaptive~~
~~Response An Introduction to Filters~~

Frequency domain □ tutorial 1: concept
of frequency (with Chinese subtitle)

Low Pass Filter - Brain Waves.avi

Overview of FIR and IIR Filters ~~EENG~~

~~510 Lecture 09-1 Frequency Domain~~

~~Filters~~ 4. Steps for Filtering in the
Frequency Domain | Digital Image

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Filtering in Active Digital Image Processing

Arabic: Ch4 Frequency Domain

Filtering Foundation Vid 3 DIP Lecture

6: Spatial filters AKTU 2015-16

Question on Conversion between

Spacial \u0026amp; Frequency Domain

Filters in Hindi | DIP The Most

Average Function There Is - Andrei

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~~Alexandrescu Frequency Domain
Filtering Image Enhancement in
Frequency Domain Digital Image
Processing A Brief Introduction to the
Fractional Fourier Transform Adaptive
Fractional Fourier Domain Filtering
Adaptive fractional Fourier domain
filtering introduces significant~~

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Filtering in Adaptive Fractional Fourier Domain, since chirp-type signals are transformed into narrow-band sinusoidal signals and the non-stationary signal adaptation problem is converted to a stationary form. It is necessary to estimate the transformation order of FrFT successfully to improve the system

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~~Adaptive fractional Fourier domain
filtering - ScienceDirect~~

Adaptive Fractional Fourier Domain
Filtering in Active Noise Control 3

where $0 < |a| < 2$, and the

transformation kernel $K_a(t, t')$ is $K_a(t, t')$

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$$)= A e^{j(t^2 \cot(\alpha) - 2t \csc(\alpha) + t^2 \cot(\alpha))} \quad (3)$$

$$A = e^{j \operatorname{sgn}(\sin(\alpha))/4 + j(\alpha)/2} / |\sin(\alpha)|^{1/2}$$

with the transform angle $\alpha = a/2$

(25). The first order FrFT is the ordinary Fourier

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Filtering in Active ...~~

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The fractional Fourier domain adaptive filtering approaches have attracted a considerable amount of attention in recent years, which avoids the difficulties of adaptation in a rapidly time-varying...

~~Adaptive fractional Fourier domain~~

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~~filtering | Request PDF~~

Adaptive fractional Fourier domain filtering introduces significant improvements, since chirp-type signals are transformed into narrow-band sinusoidal signals and the non-stationary signal adaptation problem is converted to a stationary form.

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~~Adaptive Fractional Fourier Domain
Filtering In Active~~

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Filtering in Active Noise Control 3

where $0 < |a| < 2$, and the

transformation kernel $K_a(t, t)$ is

$$K_a(t, t) = A e^{-j\left(t^2 \cot(\alpha) - 2tt \csc(\alpha)\right) + t}$$

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~~Adaptive Fractional Fourier Domain
Filtering in Active ...~~

A novel adaptive filtering technique based on fractional Fourier domains to suppress non-stationary noise is investigated and analyzed in this

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paper. In case of adapting in fractional Fourier domains, the MSE of ANC systems improved at least twice compared to the time-domain adaptation.

~~Fractional Fourier domain LMS-based adaptive filtering ...~~

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In this method, the noisy signal is rotated in time- frequency plane to extract the signal in Fractional Fourier domain (FrFD). Two adaptive filters viz. least mean squares and normalized least mean squares are studied for FrFD based ANC approach.

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~~Fractional Fourier Transform Based
Adaptive Filtering ...~~

And the proposed adaptive fractional Fourier transform filter contains the following steps: 1) The primary input signal and the reference signal are transformed into the fractional Fourier

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domain by the FrFT with a fractional order; 2) The primary signal in the fractional transform domain is filtered by a series of filter with

~~Journal of Physics: Conference Series
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the components to be separated from

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each other in an appropriate fractional Fourier domain. On the other hand, based on the analysis of the EWT, a wavelet filter bank in the fractional Fourier domain is constructed adaptively to extract the fault feature components of rotor

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~~An adaptive method based on
fractional empirical wavelet ...~~

Description. The Frequency-Domain Adaptive Filter block implements an adaptive finite impulse response (FIR) filter in the frequency domain using the fast block least mean squares (LMS) algorithm. The Filter length and the

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Block length parameters specify the filter length and the block length values the algorithm uses.

~~Frequency Domain Adaptive Filter~~
~~MathWorks~~

In this paper, adaptive filters are applied (in the fractional Fourier

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Filtering in Active
transform domain (FRFd) for
denoising lightning electric-field
signals, both in high and low signal-to-
noise-ratio (SNR) environments.
These filters are based on the
concentration energy property of the
fractional Fourier transform (FRFT).

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~~Filtering in Active
Denoising of measured lightning
electric field signals ...~~

let Radar Sonar and Navigation
Attention has been focused on the
moving target detection in heavy sea
clutter. On the basis of detection
model of moving target with fluctuant
amplitudes, a novel adaptive algorithm

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Filtering in Adaptive
in fractional Fourier transform (FRFT)
domain is proposed, which combines
statistic-based and FRFT-based
detection method.

~~Adaptive fractional fourier transform-
based detection ...~~

The approach relies on the use of

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adaptive filters in the fractional Fourier transform domain with the optimised fractional transform order and the filter parameters, while the transform orders are selected when the signal have the highest energy gathering and the filter parameters are determined by evolutionary rules.

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~~Gear fault signal detection based on
an adaptive ...~~

The corresponding theorems for fractional Fourier transform (FRFT) are derived, which state that fractional convolution in the time domain is equivalent to a simple multiplication

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operation for FRFT and FT domain;
this feature is more instrumental for
the multiplicative filter model in FRFT
domain. Moreover, the fractional
convolution operation proposed in this
paper can be expressed as ordinary
convolution form in FT domain; such
expression is particularly useful and

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~~Fractional convolution, correlation
theorem and its ...~~

The construction of sensing dictionary
adopts the Pei type fast fractional
Fourier decomposition method, which
serves as an efficient basis for the

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LFM signal. The proposed adaptive iterative optimization algorithm can solve grid mismatch problems brought on by undetermined signals and quickly achieve higher detection precision.

~~Joint FrFT-FFT basis compressed~~

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Fractional Fourier transform (FrFT) is the general case for the FT and is superior in chirp pulse compression using the optimum FrFT order. In this paper a matched filter is implemented for a chirp radar signal in the optimum FrFT domain.

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~~Radar matched filtering using the
Fractional Fourier ...~~

The response of the matched filter in fractional Fourier domain to chirp signals is analyzed, and the sidelobe suppression method for matched filtering in the fractional Fourier

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Filtering in Adaptive
domain is considered. The theory
introduced in this paper is validated by
simulations.

~~Matched Filtering in Fractional Fourier
Domain - IEEE ...~~

Attention has been focused on the
moving target detection in heavy sea

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clutter. On the basis of detection model of moving target with fluctuant amplitudes, a novel adaptive algorithm in fractional Fourier transform (FRFT) domain is proposed, which combines statistic-based and FRFT-based detection method.

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