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Apodization: Basics

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~~Fourier Transform Infrared~~ *The short-time Fourier transform (STFFT) ~~Fourier transform frequencies and zero padding~~*
What is a Fourier transform?
But what is the Fourier Transform? A visual introduction. **W4M03 Fourier**

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Transformation ~~Duality~~

~~Property of Fourier~~

~~Transform~~ *Fourier Transform*

Explained Properties of

Fourier Transform (Part 6)

Short-Time Fourier Transform

Explained Easily 4. Signal

Processing ~~Do the Past and~~

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~~Future Exist?~~ What is a
Fourier Series? (Explained
by drawing circles) -
Smarter Every Day 205
~~Fourier Series Part 1~~
*Solving the Impossible in
Quantum Field Theory | Space
Time Fourier Transform,*

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~~Fourier Series, and~~
frequency spectrum Fourier
Transform / Find the Fourier
Transform of $f(x) =$
 e^{-ax^2} ~~Easy Introduction~~
~~to Wavelets~~ Fourier Series
Fourier transforms in image
processing (Maths Relevance)

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~~HOW ROCKETS ARE MADE (Rocket
Factory Tour - United Launch
Alliance) - Smarter Every
Day 231 Lens 1F System -
Lens Fourier Transforms 105
- What is Fourier Transform?~~

**Faculty Colloquium: Dr. Okan
K. Ersoy** \ "Transforming

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~~Graduate Education Using
Mnova and Mnova Reaction
Monitoring\ " Physical Optics
I: Interference and
diffraction — Part 1
Colloquium: Jim
Schwiegerling The Benefits
Of Being Out Of Focus:~~

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~~Making the Most of Lens PSF~~

*Frequency shifting property
of Fourier Transform*

*[Statement, Proof and
Examples]* ~~Apodization~~

~~Effects In Fourier Transform~~

Applying some type of
function to Fourier

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to reduce the ripples, as in this example, is called "apodization" and the function is known as an "apodization function." It can be seen from the examples of the box-car

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Transform and triangular
waveform that reducing the
ripples implies a compromise
between the resolution and
peak height.

~~Fourier Transform and
Apodization : SHIMADZU~~

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~~(Shimadzu . . . Transform Infrared~~

833 Apodization effects in
Fourier transform infrared
difference spectra R. S.
Bretzlaff and T. B. Bahder
(+) Materials Sciences
Laboratory, The Aerospace
Corporation, El Segundo,

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California 90245, U.S.A.

(Reçu le 28 mai 1986,
accepté le 26 août 1986)

Résumé. - Dans le cas de
bandes intenses des
artefacts dus au processus d
apodisation peuvent
apparaître

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~~Apodization effects in
Fourier transform infrared~~
...

Artifacts may occur in Fourier transform infrared (FTIR) spectra due to the apodization of the

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Interferograms of intense
bands. Selected examples of
boxcar and triangular
apodization effects on
difference spectra have been
previously reported. This
paper reports the first such
calculation performed for

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the Happ-Genzel apodization function, which is often used on modern spectrometers.

~~Apodization effects in Fourier transform infrared~~

...

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Applying some type of function to Fourier transform integration to reduce the ripples, as in this example, is called "apodization" and the function is known as an "apodization function." It

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can be seen from the examples of the box-car waveform and triangular waveform that reducing the ripples implies a compromise between the resolution and peak height.

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~~Fourier Transform Infrared and Apodization — Shimadzu~~

This paper presents, in a qualitative and practical manner, several aspects of apodization and the utilization of phase information in Fourier

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~~Transform Infrared~~ spectroscopy. For
completeness, examples
are...

~~Apodization and Phase
Information in Fourier
Transform ...~~

apodization-effects-in-

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Abstract. During the process
of imaging in interference

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spectrum, apodization is an important part of the spectrum reconstruction in imaging Fourier transform spectrometer (IFTS), and it has a powerful effect on the accuracy of reconstructed spectra. This paper analyzes

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~~Transform~~
the principle of
apodization, and uses six
common kinds of apodization
functions to process the
simulated interferogram.

~~The Study of Apodization of
Imaging Fourier Transform~~

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7.2.1 Effect of Apodization.
In Chapter 5 we saw the effect of apodization on gratings; the immediate effect was the dramatic reduction in the side-lobe levels in the reflection

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spectrum. Chirped gratings tend to have lower side-mode structure in their reflection spectra to begin with, and the advantage of apodization is in the reduction of internal interference effects that

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cause the group delay to
acquire a ripple.

~~Apodization — an overview |
ScienceDirect Topics~~

The term apodization is used
frequently in publications
on Fourier-transform

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infrared (FTIR) signal processing. An example of apodization is the use of the Hann window in the fast Fourier transform analyzer to smooth the discontinuities at the beginning and end of the

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sampled time record.

Apodization in digital audio

~~Apodization — Wikipedia~~

Typically, after the interferogram has been recorded, it is multiplied by an apodisation function

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before the Fourier transform is carried out. (The apodisation function is applied to reduce the sidelobes that result from truncation of the interferogram [2]).

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~~The effect of apodisation and finite resolution on Fourier...~~

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As recognized, adventure as competently as experience about lesson, amusement, as

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life, as regards the world.

~~Apodization Effects In Fourier Transform Infrared~~
Findings suggest that for mild apodization, the known sensitivity enhancement due to zero-padding in either the

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real or the imaginary parts of the signal [E. Bartholdi, R.R. Ernst, Fourier spectroscopy and the causality principle, J. Magn. Reson., 11 (1973) 9-19] is maintained; however, for stronger apodization filters, this enhancement can be

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obliterated completely.

~~Effects of zero filling and apodization on spectral ...~~
Calculations assuming discrete Fourier-transform data are compared with Monte-Carlo simulations. The

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effects of zero-filling and apodization are examined for free-induction-decay (FID) signals and for symmetric spin-echo signals in one and two dimensions, with particular attention to features not previously

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presented in the literature.

~~Effects of zero filling and apodization on spectral ...~~

It is common practice in Fourier transform spectroscopy to multiply the measured interferogram by an

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~~Transform Infrared~~
apodizing function in order to reduce the amount of ringing present in the resulting instrumental line shape (ILS).

~~Apodization Functions for
Fourier Transform~~

Read Online Apodization Effects In Fourier ~~Spectroscopy~~ Infrared

Apodization makes it possible to exclude effects that occur near the start and/or end of the simulation from the monitors fourier transform. This feature can be useful for filtering away

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Short lived transients that occur when a system is excited with a dipole source, and when studying high Q systems that decay very slowly.

~~Understanding time~~

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~~Transform Infrared
apodization in frequency
domain...~~

Effect of apodization on the retrieval of geophysical parameters from fourier-transform spectrometers.

Amato U, De Canditiis D, Serio C. The problem of the

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effect of apodization on the retrieval of geophysical parameters from infrared radiances recorded by Fourier transform spectrometers has been analytically and numerically addressed.

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~~Effect of apodization on the
retrieval of geophysical ...~~

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~~Apodization Effects In
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Effects of Apodization The
Fourier transform of a
damped, finite, periodic
signal will generate tails
on the peak which vary in
intensity based on the

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~~Transform Infrared~~
damping mode of the
transient, and these tails
can interfere with low-
intensity peaks nearby.

~~Absorption Mode Fourier
Transform Mass Spectrometry:
the ...~~

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Fourier transform infrared (FTIR) spectroscopy was assessed as a potential rapid and objective diagnostic platform to investigate pathological and physiological changes at 9 weeks post stroke. Atomic

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Transform Infrared force microscopy (AFM) was also used in order to investigate the changes in bio-mechanical and bio-physical properties of the brain due to stroke.

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