Apodization Effects In Fourier Transform Infrared

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Apodization: Basics

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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 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.

~~Fourier Transform and Apodization : SHIMADZU (Shimadzu ...~~
833 Apodization effects in Fourier transform infrared difference spectra R. S. Bretzlaff and T. B. Bahder (+) Materials Sciences Laboratory, The Aerospace Corporation, El Segundo, California 90245, U.S.A. (Re ç u le 28 mai 1986, accept é le 26 ao û t 1986) R é sum é . - Dans le cas de bandes intenses des artefacts dus au processus d apodisation peuvent appara î tre

~~Apodization effects in Fourier transform infrared ...~~
Artifacts may occur in Fourier transform infrared (FTIR) spectra due to the apodization of the 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 the Happ-Genzel apodization function, which is often used on modern spectrometers.

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

~~Fourier Transform and Apodization - Shimadzu~~
This paper presents, in a qualitative and practical manner, several aspects of apodization and the utilization of phase information in Fourier transform spectroscopy. For completeness, examples are...

~~Apodization and Phase Information in Fourier Transform ...~~
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Abstract. During the process of imaging in interference 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 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 ...~~
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 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 cause the group delay to acquire a ripple.

~~Apodization - an overview | ScienceDirect Topics~~
The term apodization is used frequently in publications on Fourier-transform 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 sampled time record. Apodization in digital audio

~~Apodization - Wikipedia~~
Typically, after the interferogram has been recorded, it is multiplied by an apodisation function before the Fourier transform is carried out. (The apodisation function is applied to reduce the sidelobes that result from truncation of the interferogram [2]).

~~The effect of apodisation and finite resolution on Fourier ...~~
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~~Apodization Effects In Fourier Transform Infrared~~
Findings suggest that for mild apodization, the known sensitivity enhancement due to zero- fi lling in either the real or the imaginary partsignal[E.Bartholdi,R.R.Ernst,Fourierspectroscopyandthecausalityprinciple,J.Magn.Reson.,11(1973)9 – 19]ismaintained;how-ever, for stronger apodization fi lters, this enhancement can be obliterated completely.

~~E ffects of zero- fi lling and apodization on spectral ...~~
Calculations assuming discrete Fourier-transform data are compared with Monte-Carlo simulations. The 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 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 apodizing function in order to reduce the amount of ringing present in the resulting instrumental line shape (ILS).

~~Apodization Functions for Fourier-Transform Spectroscopy~~
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 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 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 effect of apodization on the retrieval of geophysical parameters from infrared radiances recorded by Fourier transform spectrometers has been analytically and numerically addressed.

~~Effect of apodization on the retrieval of geophysical ...~~
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~~Apodization Effects In Fourier Transform Infrared~~
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 damping mode of the transient, and these tails can interfere with low-intensity peaks nearby.

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