Digital Signal Processing Spectral Computation And Filter

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In all spectral computations, signal is truncated before the discretization by multiplying the original signal say by a rectangular window say, the resulted spectrum of the truncated signal equals...

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Energy spectral density describes how the energy of a signal or a time series is distributed with frequency. Here, the term energy is used in the generalized sense of signal processing; that is, the energy. E. {\displaystyle E} of a signal. x (t) {\displaystyle x (t)} is. E = ? ? ? ? | x (t) | 2 d t .

Spectral density - Wikipedia
Digital signal processing and analog signal processing are subfields of signal processing. DSP applications include audio and speech processing, sonar, radar and other sensor array processing, spectral density estimation, statistical signal processing, digital image processing, data compression, video coding, audio coding, image compression, signal processing for telecommunications, control systems, biomedical engineering, and seismology, among others.

Digital signal processing - Wikipedia
Digital Signal Processing: Spectral Computation and Filter Design: Chen: Amazon.com.au: Books

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There is also a second method for reducing spectral noise. Start by taking a very long DFT, say 16,384 points. The resulting frequency spectrum is high resolution (8193 samples), but very noisy. A low-pass digital filter is then used to smooth the spectrum, reducing the noise at the expense of the resolution. For example, the simplest digital filter might average 64 adjacent samples in the original spectrum to produce each sample in the filtered spectrum.

Spectral Analysis of Signals
Di Lecce, V., and Guerriero, A., Spectral Estimation by AFT Computation,Digital Signal Processing6(1996) 213-223. At the beginning of this century Bruns developed a method for computing the coefficients of the Fourier series of a periodic functiony(t) using the Möbius inversion formula. This idea for Fourier analysis was considered again by Wintner from an arithmetical point of view in 1945.

Spectral Estimation by AFT Computation - ScienceDirect
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