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standard topics in the field, this unique text distinguishes itself from competing texts by extensively employing the fast Fourier transform (FFT).

Digital Signal Processing: Spectral Computation and Filter ... 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 of a signal $x(t)$ is $E = \int |x(t)|^2 dt$.

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

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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.

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Spectral Analysis of Signals

Di Lecce, V., and Guerriero, A., Spectral Estimation by AFT Computation, Digital Signal Processing 6(1996) 213–223. At the beginning of this century Bruns developed a method for computing the coefficients of the Fourier series of a periodic function $y(t)$ using the Möbius inversion formula. This idea for Fourier analysis was considered again by Wintner from an arithmetical point of view in 1945.

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