

Lecture 7 - The Discrete Fourier Transform

7.1 The DFT

The Discrete Fourier Transform (DFT) is the equivalent of the continuous Fourier Transform for signals known only at N instants separated by sample times T (i.e. a finite sequence of data).

Let $f(t)$ be the continuous signal which is the source of the data. Let N samples be denoted $f[0], f[1], f[2], \dots, f[k], \dots, f[N-1]$.

The Fourier Transform of the original signal, $f(t)$, would be

$$F(j\omega) = \int_{-\infty}^{\infty} f(t)e^{-j\omega t} dt$$

We could regard each sample $f[k]$ as an *impulse* having area $f[k]$. Then, since the integrand exists only at the sample points:

$$\begin{aligned} F(j\omega) &= \int_0^{(N-1)T} f(t)e^{-j\omega t} dt \\ &= f[0]e^{-j\omega 0} + f[1]e^{-j\omega T} + \dots + f[k]e^{-j\omega kT} + \dots + f[(N-1)]e^{-j\omega(N-1)T} \end{aligned}$$

$$\text{i.e. } F(j\omega) = \sum_{k=0}^{N-1} f[k]e^{-j\omega kT}$$

We could in principle evaluate this for any ω , but with only N data points to start with, only N final outputs will be significant.

You may remember that the continuous Fourier transform could be evaluated over a finite interval (usually the fundamental period T_p) rather than from $-\infty$ to

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