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$f^{\wedge}(\omega) = \int_{-\infty}^{\infty} f(t)e^{-j\omega t} dt = \int_{-\infty}^{\infty} f(t) \cos(\omega t) dt - j \int_{-\infty}^{\infty} f(t) \sin(\omega t) dt$. The idea, as discussed in Chapter 9, is that $f^{\wedge}(\omega)$ gives a representation of the “amount” of the signal present at the frequency ω . Now, it is desirable to be able to reconstruct f from f^{\wedge} , and we shall see in Section 13.2 that this is done via the formula. $f(t) = \int_{-\infty}^{\infty} f^{\wedge}(\omega) e^{j\omega t} d\omega$. Z. R.

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A signal is odd symmetric if it has the following property: Continuous time: $s(t) = -s(-t)$ Discrete time: $s[n] = -s[-n]$ The figure below shows examples of even and odd symmetric signals. As an example, the cosine is even symmetric, since $\cos(\omega) = \cos(-\omega)$, leading to $\cos(\omega t) = \cos(\omega(-t))$.

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In mathematics, a signal is a function that conveys some information. In fact any quantity measurable through time over space or any higher dimension can be taken as a signal. A signal could be of any dimension and could be of any form.

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