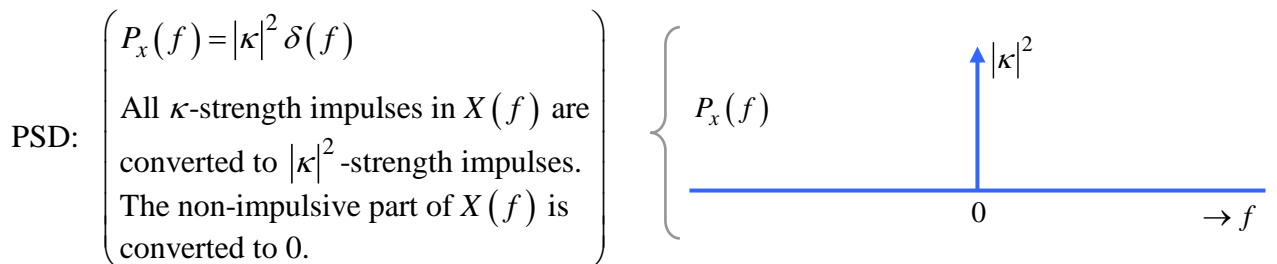
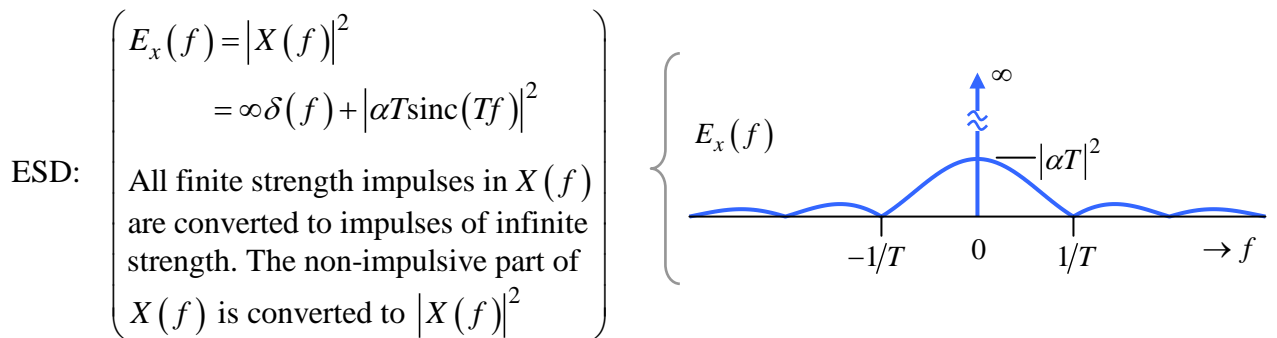
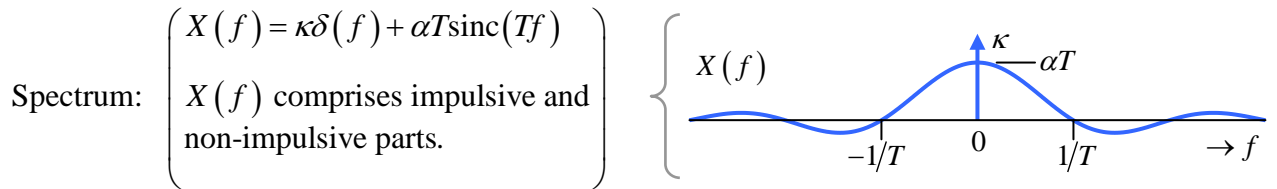
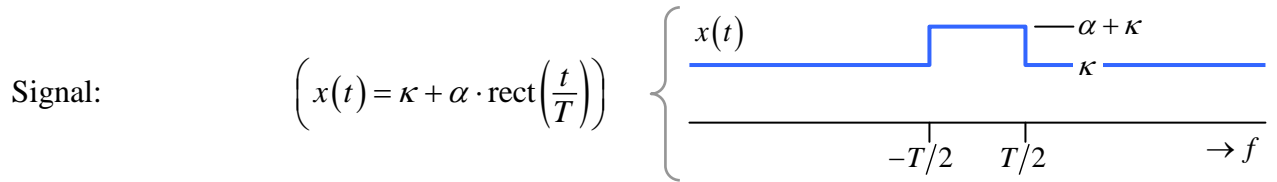


Sketching ESD and PSD

AN EXAMPLE:



This signal, $x(t)$, has finite average power $\left[P = \int_{-\infty}^{\infty} P_x(f) df = |\kappa|^2 < \infty \right]$ and infinite total energy $\left[E = \int_{-\infty}^{\infty} E_x(f) df = \infty \right]$. It is therefore a power signal.

NOTE: The power spectrum of a DETERMINISTIC signal consists of only impulses. This notion **does not** carry over to RANDOM signals.