

Tratamiento de Señales

Version 2022-I

Muestreo en 1D

[Capítulo 4]

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$$f(t) * \delta(t) = f(t)$$

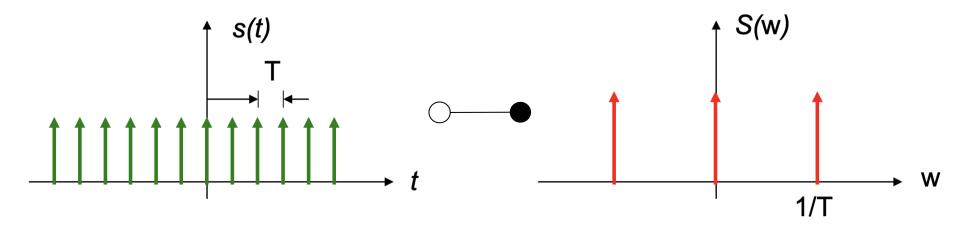
La convolución de una señal por el impulso es la misma señal

$$f(t) * g(t) \bigcirc --- F(\omega)G(\omega)$$

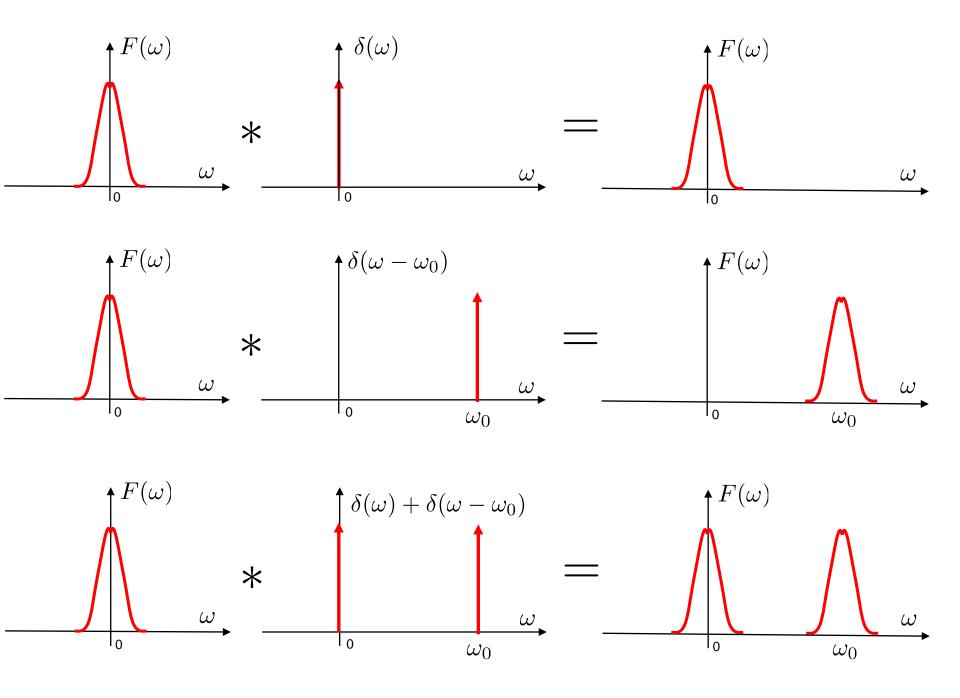
La transformada de Fourier de la convolución de dos señales es la multiplicación de sus transformadas de Fourier

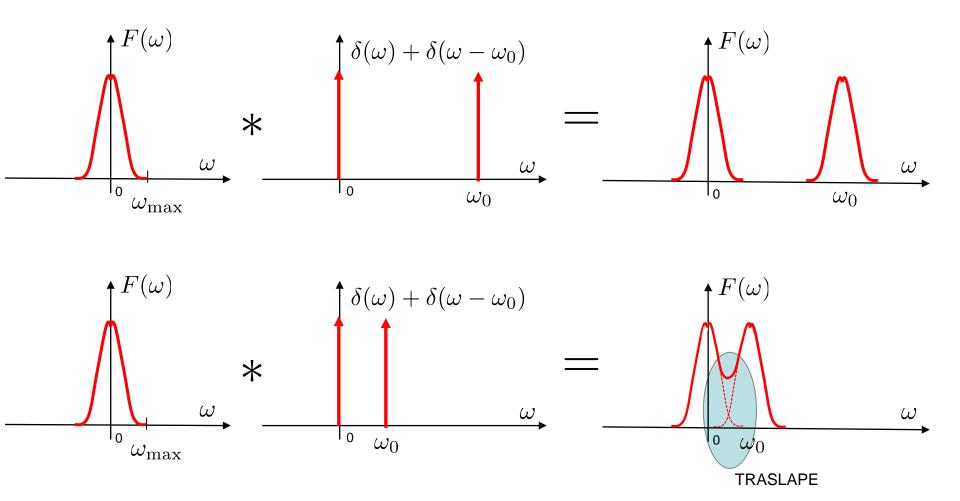
$$f(t)g(t) \bigcirc - F(\omega) * G(\omega)$$

La transformada de Fourier de la multiplicación de dos señales es la convolución de sus transformadas de Fourier

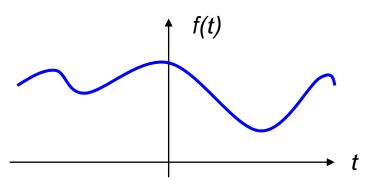


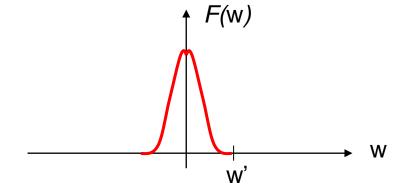
La transformada de Fourier de un tren de impulsos de periodo T es un tren de impulsos de periodo 1/T

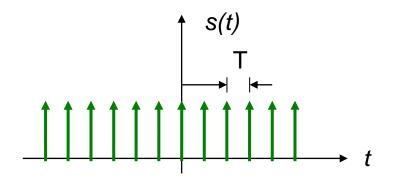


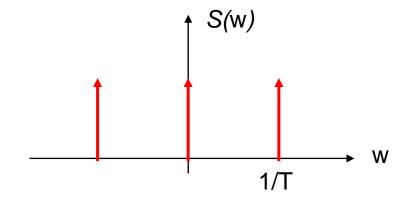


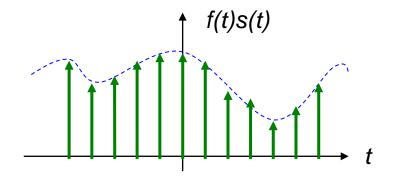
Si $\omega > 2\omega_{\rm max}$ no hay traslape

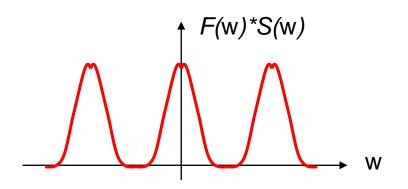


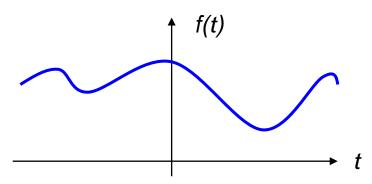


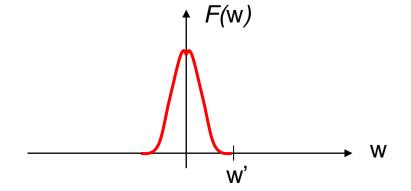


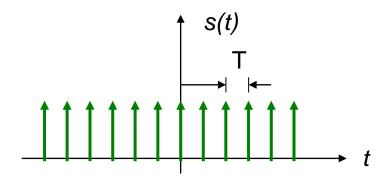


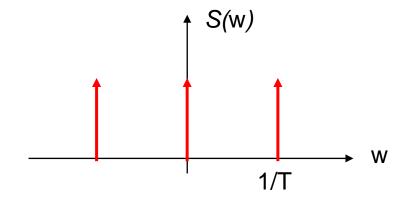


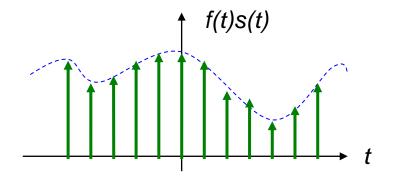


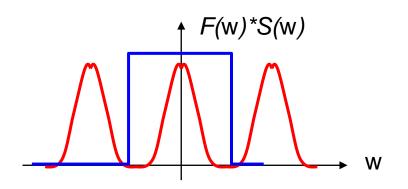


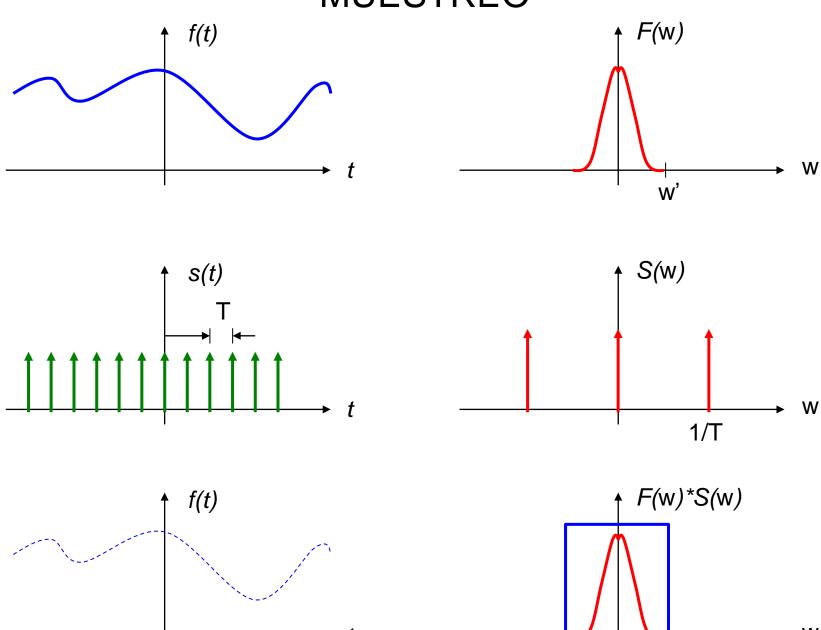


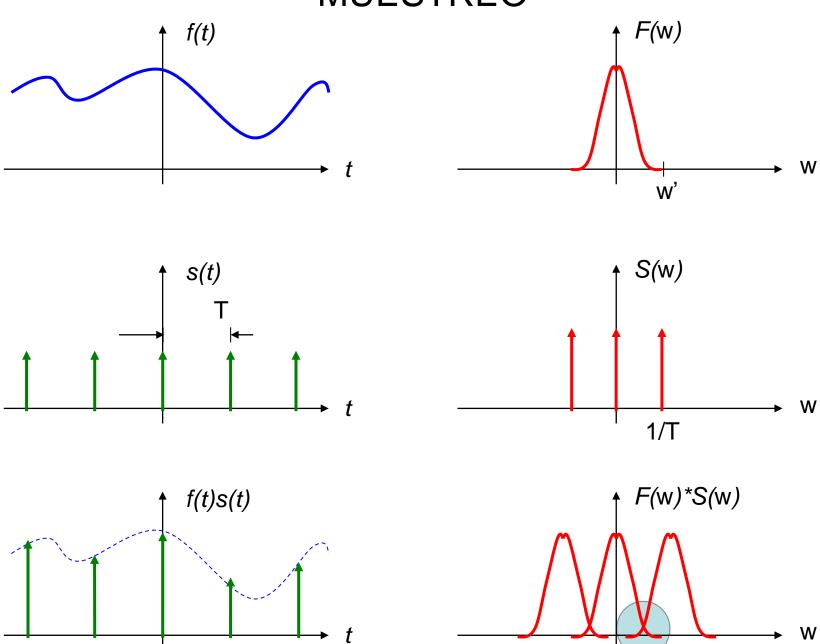












TRASLAPE

