A Wavelet Tour of Signal Processing
Stéphane Mallat, Academic Press 1999 (2nd edition)

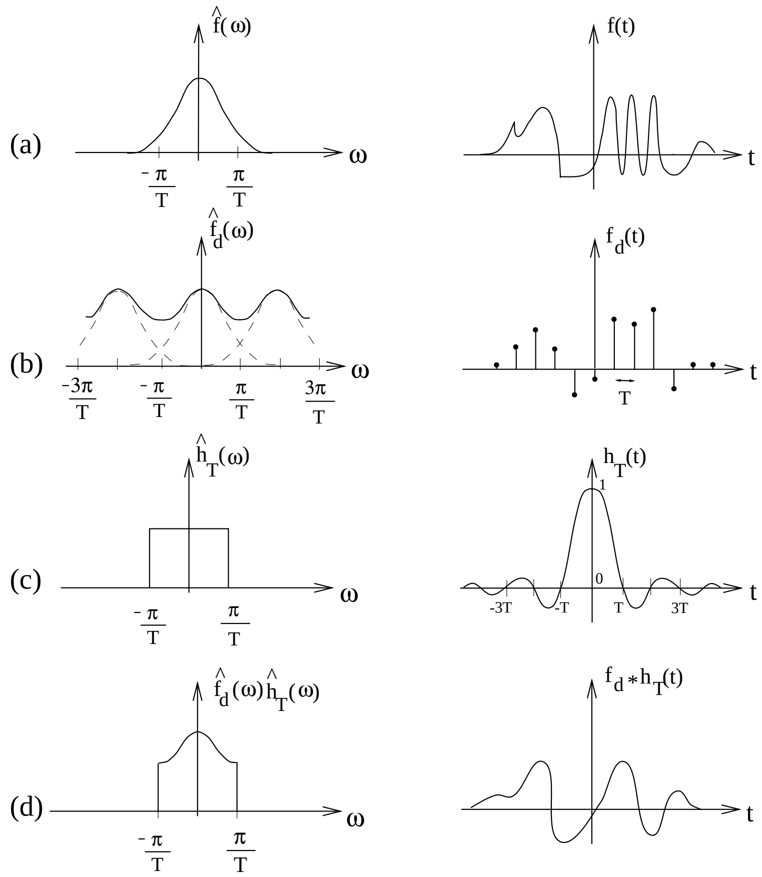

Figure 3.1: (a): Signal f and its Fourier transform $\hat{f}$. (b): Aliasing produced by an overlapping of $\hat{f}(\omega - 2k\pi/T)$ for different k, shown in dashed lines. (c): Ideal low-pass filter. (d): The filtering of (b) with (c) creates a low-frequency signal that is different from f.