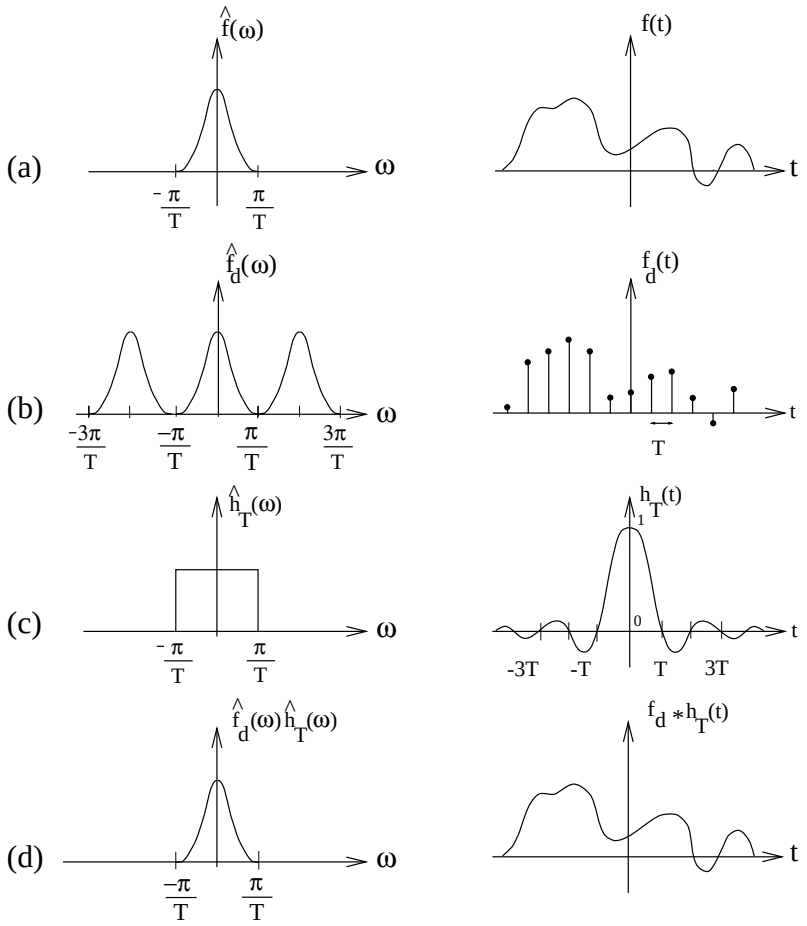

Figure 3.1: (a): Signal f and its Fourier transform $\hat{f}$. (b): A uniform sampling of f makes its Fourier transform periodic. (c): Ideal low-pass filter. (d): The filtering of (b) with (c) recovers f.