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

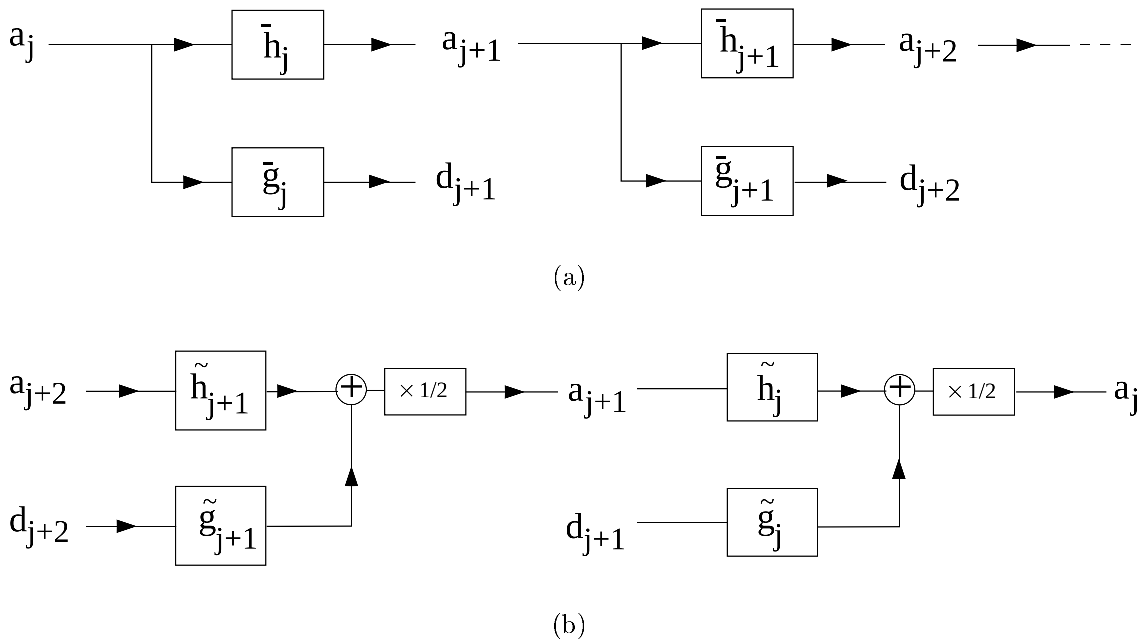

Figure 5.7: (a): The dyadic wavelet coefficients are computed by cascading convolutions with dilated filters $\bar{h}_j$ and $\bar{g}_j$. (b): The original signal is reconstructed through convolutions with $\tilde{h}_j$ and $\tilde{g}_j$. A multiplication by 1/2 is necessary to recover the next finer scale signal a_j.