A Wavelet Tour of Signal Processing

Stéphane Mallat, Academic Press 1999 (2nd edition)

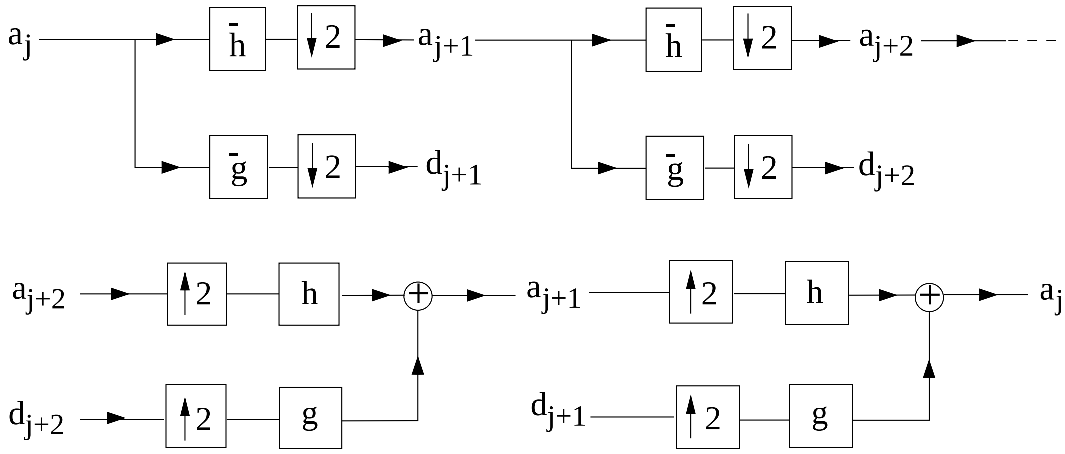

Figure 7.12: (a): A fast wavelet transform is computed with a cascade of filterings with $\bar{h}$ and $\bar{g}$ followed by a factor 2 subsampling. (b): A fast inverse wavelet transform reconstructs progressively each a_j by inserting zeroes between samples of a_{j+1} and d_{j+1}, filtering and adding the output.