Fig. 7.12. A Wavelet Tour of Signal Processing, 3rd ed. (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.