

Fig. 9.1. A Wavelet Tour of Signal Processing,  $3^{\rm rd}$  ed. Top: Original signal f. Middle: Signal  $f_N$  approximated from N=128 lower frequency Fourier coefficients, with  $\|f-f_N\|/\|f\|=8.63\,10^{-2}$ . Bottom: Signal  $f_N$  approximated from larger scale Daubechies 4 wavelet coefficients, with N=128 and  $\|f-f_N\|/\|f\|=8.58\,10^{-2}$ .