Errata and minor comments to the book by I. Daubechies, 
*Ten lectures on wavelets*

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These are errata and minor comments to the book

**p.159 below and p.160 above** For the derivation of the two formulas on p.159 below and p.160 above it is helpful to make the following observation. If \( f(\xi) = \sum_{n \in \mathbb{Z}} b_n e^{-in\xi} \) is a \( 2\pi \)-periodic function which has support within \( I + 2\pi \mathbb{Z} \), where \( I \) is an interval of length \( \pi \), then \( f(\xi) = f(\xi + \pi) = 2 \sum_{m \in \mathbb{Z}} b_{2m} e^{-2im\xi} \) for \( \xi \in I \).

**p.160, l.4** Replace \( a_{L}^{n} \) by \( a_{H}^{n} \).

**p.161, formula above fig. 5.10** Replace \( c_1 \) by \( c_0 \) and \( c_2 \) by \( c_1 \).

**p.162, ninth until sixth line above (5.6.13)** Replace the sentence starting with “Unfortunately” by:
Unfortunately, there exists only trivial FIR \( a^0 \) so that \( a^0(z)^2 - a^0(-z)^2 = 2z^{-2n-1} \), which would identify \( \tilde{c}(z) \) with \( z^{-2n-1} c(z) \), i.e., the reconstructed signal is the original signal with time delay \( 2n + 1 \). This trivial FIR is \( a^0(z) = \lambda z^{-2(n-m)} + (2\lambda)^{-1} z^{-2m-1} \).

In the next sentence replace “close to 2” by “close to \( 2z^{-2n-1} \)”.

**p.204, (6.5.5)** Replace \( j > 0 \) by \( j \geq 0 \).

**p.212, Note 8** In fact, \( \psi \) can also be computed by the cascade algorithm. For this, take in (6.5.4) the right-hand side equal to zero, and add the condition \( \langle f, \psi_{0,n} \rangle = \delta_{0,n} \). Then replace in (6.5.6) \( h_{n-2k} \) by \( g_{n-2k} \).