Errata
for the book
Wavelets and Multiwavelets
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• Page 8, last paragraph: “... for each fixed $x$ the sum only contains finitely many nonzero terms.”

• Page 12, third equation: The summation index should be $k$.

• Page 19, figure 1.7: The pictures for $Q_0f$ and $Q_1f$ are wrong. The corrected images are

![Corrected images](image)

• Page 71, example 3.2: The second equation should read

$$\tilde{h}_0 + \tilde{h}_1 = \sqrt{2}.$$

• Page 95, last formula for $Tf$: the summation indices $j, k$ are interchanged.

• Page 130, middle: “... support strictly contained in the interval $[k_0/(m - 1), k_1/(m - 1)]$.”

• Page 131, first paragraph: “... for each fixed $x$ the sum only contains finitely many nonzero terms.”

• Page 140, definition 6.18: the exponent in both formulas should be $k$, not $n$. 


• Page 142, example 6.4: $\mu_1$ is wrong. It should be

$$\mu_1 = \frac{1}{6} \left( \frac{\sqrt{6}}{2\sqrt{3}} \right).$$

• Page 167, last two formulas: replace the summation index $t$ by $\ell$, since $t$ is already used as a superscript.

• page 170, algorithm 7.11, decomposition formula: range of $t$ should be $t = 1, \ldots, m - 1$.

• Page 244, $\text{HM}(s)$ wavelet:

  It is stated that the parameter $s$ must satisfy $-1 < s < 1/7$, and that for $s = 1/4$, $V_0$ consists of continuous, piecewise quadratic splines with integer knots. That value is outside the given range.

  The wording should be amended as follows: For $-1 < s < 1/7$, both $\phi$ and $\tilde{\phi}$ are continuous functions. For $s = 1/4$, the given $V_0$ is correct, but $\tilde{\phi}$ is a distribution, not a function.

• Page 249, translation formula: exponential term on the right should be $e^{-ia\xi}$.

• Page 252, definition B.4: $a_{21}, a_{31}$ should be $a_{12}, a_{13}$.