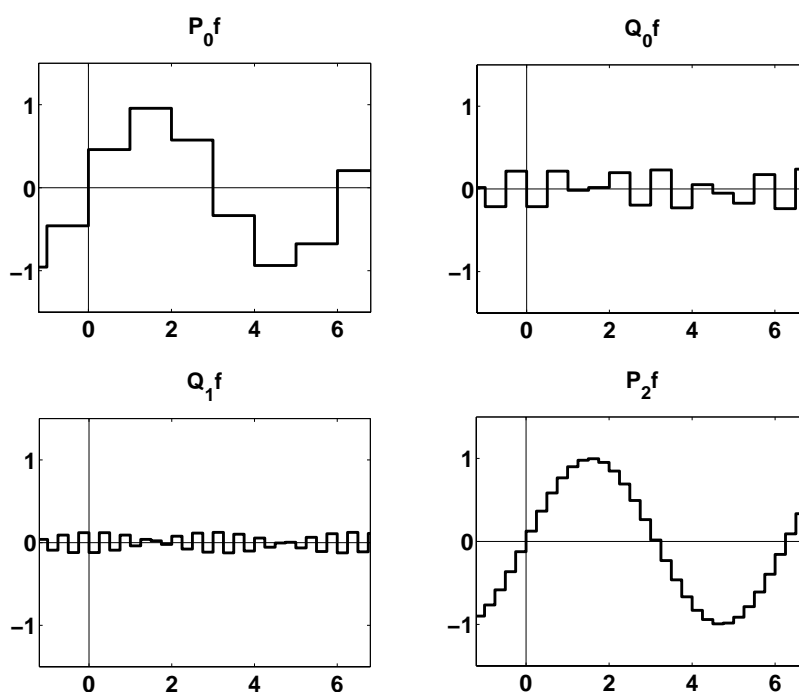


**Errata**  
for the book  
*Wavelets and Multiwavelets*  
Fritz Keinert  
Last Update: August 16, 2004

- 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



- Page 28, example 1.7: The continuous moment  $\mu_2$  is wrong. It should be

$$\mu_2 = \frac{6 - 3\sqrt{3}}{2}.$$

- 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 124, last line: the arguments in the second set of brackets should be  $2x - 1$ , not  $2x + 1$ .
- 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

$$\mu_1 = \frac{1}{6} \begin{pmatrix} \sqrt{6} \\ 2\sqrt{3} \end{pmatrix}.$$

- 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  $t = 1, \dots, m - 1$ .
- Page 244, **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  $a_{12}, a_{13}$ .