Errata for the 6th Printing of the American
(blue and green front cover) version of
"Understanding Digital Signal Processing, 3/E",
by Richard Lyons

On page 144, in Figure 4-2, the lower right four twiddle factors:

\[ W_8^4, W_8^5, W_8^6, W_8^7 \]

should be:

\[ -W_8^0, -W_8^1, -W_8^2, -W_8^3 \]

[Found by Saul Iverson, 10/3/17.][Author Error]

Page 211: In the third line of the last paragraph the text:

"slope of the \( H_\theta(m) \) response ..."

should be:

"negative of the slope of the \( H_\theta(m) \) response ..."

[Found by Edward Beadle (7/19/16)]; [Production Error]

Page 304: In Figures 6-32(b) and 6-32(c), the 'p' letters in the
frequency axes should be the Greek symbol 'π'.

[Found by Author (7/11/16)]; [Production Error]

Page 515: In Figure 10-5(c) the frequency axis labels marked

\((-3f_s,_{old}) \) and \((3f_s,_{old})\)

should be:

\((-3f_s,_{new}) \) and \((3f_s,_{new})\).

[Found by Author, (2/25/17)]; [Author Error]

Page 578: For some reason the wrong figure was printed for Figure
P10-17. The correct Figure P10-17 is:
\[ \alpha = \cos(2\pi f_c f_s) - 1 + \cos^2(2\pi f_c f_s) - 4\cos(2\pi f_c f_s) + 3 \]  

Page 648: On the 2nd and 3rd lines down from the top, the references to Eqs. (D-11) and (D-12) should be changed to Eqs. (D-28) and (D-29).

Page 678: in the fifth line down, delete the text:

"...followed by another K delay..."

In Figure 13-6(c) the final \( z^{-K} \) delay block should be deleted making that figure become:

Page 830: In the fifth line of the first paragraph the text:

"... \( k(0',k')N-1 \) ..."

should be:

"... \( k(0\leq k\leq N-1) \) ...

[Found by Edward Beadle (7/19/16)]; [Production Error]
Dear Reader, if you find any additional errors, no matter how trivial, please notify me at: R.Lyons@ieee.org
I'd sure appreciate hearing from you and I promise I'll reply to your E-mail.

Thanks,
[-Rick Lyons-]