Feb. 27, 2018

Errata for the <u>6th Printing</u> 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 $H_{\phi}(m)$ response ..."

should be:

"negative of the slope of the $H_{\phi}(m)$ 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 '.

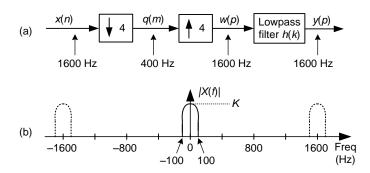
 $(-3f_{s,old})$ and $(3f_{s,old})$

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:



[Found by Prof. Renato da Rocha Lopes (9/17/13)]; [Production Error]

Page 614: Eq. (11-36) has a missing π character. That equation should be:

$$\alpha = \cos(2\pi f_c/f_s) - 1 + \sqrt{\cos^2(2\pi f_c/f_s) - 4\cos(2\pi f_c/f_s) + 3}$$
(11-36)

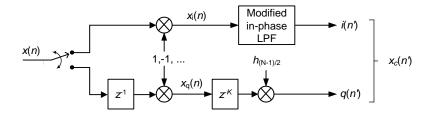
[Found by Zachary Blackwell (2/27/18)]; [Typesetting Software Error]

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).

[Found by Prof. Kip Haggerty (1/1/16)]; [Author Error] 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:



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

should be:

".... $k (0 \le k \le N-1)$ "

[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-]

