

Fundamentals of Signals and Systems: A Building Block Approach

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LIST OF ERRATA

Errata in Text

1. Page 9, 4th line after Eq. (1.10): Change “...of the sinusoid of Eq. (1.8)...” to “...of the sinusoid of Eq. (1.9)...”
2. Page 31, 3rd line after Eq. (2.4): Change “...large positive and negative power errors...” to “...large and positive and negative errors...”
3. Page 50, Fig. 2.24: Change

$$-1/2Ae^{j\theta} \quad \text{to} \quad 1/2Ae^{-j\theta}$$

4. Page 61, 9th line from the bottom: Change “...to $c_{(N/2)} - 1$ ” to “... $c_{(N/2)-1}$ ”
5. Page 61, 5th line from the bottom: Change “...and frequencies $\{-\alpha f_0, -f_0, 0, f_0\}$...” to “...and frequencies $\{-2f_0, -f_0, 0, f_0\}$...”
6. Page 62, Eq. (2.75): Change

$$X[k] = \sum_{n=1}^N x[n-1]e^{-jk\frac{2\pi}{N}(n-1)} \quad \text{to} \quad X[k] = \sum_{n=1}^N x[n-1]e^{-j(k-1)\frac{2\pi}{N}(n-1)}$$

7. Page 62, 2nd line from the bottom: Change “...to 100 the agreement between...” to “...to 1000 the agreement between...”
8. Page 152, Problem 4-7 (Fig. 4.44): The length of the rod is l , and the attachment point for the spring and damper is at $l/2$.
9. Page 271, line 2: Change “In general, $X_0 = c_0$ and for $k = 0$ $X_k = 2c_k$ for real functions” to “In general, $X_0 = c_0$ and for $k \neq 0$ $X_k = 2c_k$ for real functions”
10. Page 284, Fig. 8.13. Change the x -axis label from “ $\hat{\omega}$ (rad/s)” to “ $\hat{\omega}$ (rad)”
11. Page 336, Problem 9-3: The frequencies of interests f_1 and f_2 are both less than $f_s/2$ [NOT $f_s/2$ as shown].

12. Page 339, Problem 9-6(c): Change

$$H(e^{j\hat{\omega}}) = \frac{1}{1 - \frac{1}{2}e^{j\hat{\omega}}} \quad \text{to} \quad H(e^{j\hat{\omega}}) = \frac{1}{1 - \frac{1}{2}e^{-j\hat{\omega}}}$$

Errata on Disk

1. Chapter 3, fig3_20.m, line 18: Change

`subplot(2, 1, 2, 'k')` to `subplot(2, 1, 2)`