
DIGITAL SIGNAL PROCESSING: *Signals, Systems, and Filters*

Andreas Antoniou

Errata Corrections for Printings #1 and #2

(Revision date: July 1, 2015)

NOTE:

I would greatly appreciate to be notified of any typographical errors in the textbook, the slides for the textbook, and the solutions of the end-of-chapter problems found at this website. Comments and suggestions for the next edition are especially welcome.

Author

Preface

- **Page xxiii** Replace line -7 (a negative number indicates lines from the bottom of the page) by the following:
between pages 454 and 455 for more details. The software can be downloaded from the textbook's website:

Chapter 2

- **Page 58** The reference citation just after Theorem 2.5 should read as follows:
(See pp. 9 and 29–30 of [5].)
- **Page 72** Table 2.1, column 2, replace σ by σ in the bottom two entries, as follows:

$$\frac{1}{\sigma + j\omega} \quad \frac{\omega_0}{(\sigma + j\omega)^2 + \omega_0^2}$$

- **Page 75** Prob. 2.12, part (a), should read as follows:
(a) $x(t) = \sigma t$ for $-r_0/2 \leq t \leq r_0/2$
- **Page 75** Prob. 2.13, part (b), should read as follows:
(b) $x(t) = \begin{cases} 0 & \text{for } -r_0/2 \leq t < 0 \\ \sin \omega_0 t & \text{for } 0 \leq t \leq r_0/2 \end{cases}$
- **Page 75** Prob. 2.16, part (a), should read as follows:
(a) $X(-j\omega) = X^*(j\omega)$
- **Page 75** Prob. 2.17, parts (b) and (c), should read as follows:
(b) Assuming that $x(t)$ is purely imaginary and an even function of time, show that $\Re\{X(j\omega)\} = 0$ and $\Im\{X(j\omega)\}$ is an even function of frequency.
(c) Assuming that $x(t)$ is purely imaginary and an odd function of time, show that $\Im\{X(j\omega)\} = 0$ and $\Re\{X(j\omega)\}$ is an odd function of frequency.
- **Page 76** Prob. 2.23, parts (a) and (b), should read as follows:
(a) $X_2(j\omega) = X^*(-j\omega)$
(b) $X_2(-j\omega) = X^*(j\omega)$
- **Page 76** Prob. 2.25, part (b), should read as follows:
(b) Sketch the waveform of

$$x_2(t) = \sum_{n=-\infty}^{\infty} x_1(t - nT)$$

assuming that $T > r$.

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