**Errata for the 5th Edition**

September 15, 2014

Chapter

2 Practice Problem 2.8 The value of i3 should be equal to **2.5 A**.

Problem 2.61

The last line should read "such that *I* lies with the range *I* = 1.25 A ± 5 percent." We needed to add the first *I*.

3 Practice Problem 3.9 In the coefficient matrix, the value of R12 = R21 should be –20 Ω.

3 Practice Problem 3.13 The answers should be 9 V and 900 µA respectively.

5 Page 180 The tenth line from the top, replace "characteristics" with properties"

5 Practice Problem 5.3 The current through the feedback resistor is **11.25 µA**.

5 Practice Problem 5.8 The answer should be **800 µA**, a positive value not negative.

6 Page 232 Just below Table 6.1, delete the phrase, "The wye-delta transformation discussed in Section 2.7 for resistors can be extended to capacitors and inductors."

6 Practice Problem 6.12 The answer for (a) should be **800 mA** for consistency.

6 Figure 6.49 The resistor on the left should be **70 Ω** and not 40 Ω.

7 Practice Problem 7.6 The answers need units, **amps** for the current and **amp-sec** for the integral of the current.

7 Practice Problem 7.20 The answer for (a) should be **160 mC** for consistency.

8 On the 5th line from the bottom of page 327, replace “voltage is vC = Cdv/dt" with "current is iC = Cdv/dt"

9 In Figure 9.7, the rotation should be in rad/s.

9 Practice Problem 9.10, the units on the answer should be **Ω**

11 Page 464 On the 7th line from the top, replace 10.58 with 105.8

12 Page 512 In eq. (12.20), in the last equation, replace –150° with 150°; i.e. delete the negative sign

12 Practice Problem 12.15 The second answer should be **802.1 W** for consistency

13 Page 588 On the 7th line above Figure 13.54, replace “L1 = L2” with “L1 = L1”

On the 3rd line above Figure 13.54, replace “L1 = L1” with “L1 = L2”

 Make the same changes on the right-hand side of Figure 13.54

14 Example 14.8

The voltage source needs to be a current source of 1.25 sin(ωt) mA.

(c) At ω = ω0, Z = 8 kΩ and the entire current flows through R at resonance, the average power dissipated at ω = ω0 is

$$P= \frac{1}{2}\left|I\_{o}\right|^{2}R= \frac{1}{2}\left(1.25x10^{–3}\right)^{2}\left(8x10^{3}\right)= 6.25 mW$$

At ω = ω1 = ω2,

*P* = 3.125 mW

14 Section 14.8 Active Filters (Page 642) The second line after the section heading should read, "**they cannot generate power gains greater than 1;**"

14 Page 653 On the second line above Figure 14.52, replace “logrithic” with “logarithmic”

15 Equation 15.43 Replace "e–2tcos10t" with "e–2tcos10t u(t)"

 Figure 15.19 The 1 should be moved to the left so that it lines up with the break in the curve

16 Practice Problems 16.7 To be more correct, the first answer needs to be multiplied by u(t) or ****

Figure 16.109 The signs on the input to the op-amp need to be reversed. The feedback should always be connected to the negative terminal.

17 Practice Problems 17.11 There should not be a negative sign in front of the equation.

f(t) = 

19 Practice Problem 19.4 The answer is better given as y11 = 625 mS, y12 = –125 mS, y21 = 375 mS, y22 = 125 mS.

Appendix D, end of chapter problems.

2.23 The value of the voltage, vx should be **6.667 volts**.

15.9 The answer to (a) should be ****

16.35 The answer should be,

 $\left[3.636e^{-t}+7.862e^{-0.0625t}cos\left(0.7044t-117.55°\right)\right]u\left(t\right)volts$**.**