Engineering Circuit Analysis 8th Edition 2012

Errata **Updated 18 January 2012**

Chapter 1

None

Chapter 2

p.10 Margin note: should read 4.187 kJ

p. 36 Exercise 51: $\rho = \left[q\mu_n N_D\right]^{-1}$

Chapter 3

p. 44 Practice 3.3: Answers are (a) 20 V; (b) -24 V

p. 60 The current source symbol should be shaded in. There should be no vertical white stripes in other symbols.

p. 69 Figure 3.50(b): The current source should be labelled 9 A

Chapter 4

p. 91 Practice 4.5: Answers are v_1 = 3 V, v_2 = 2.529 V, v_3 = 2.624 V, v_4 = 1.990 V

p. 112 Figure 4.42: The $0.2v_3$ dependent current source should be replaced with a 7 Ω resistor

p.119 Exercise 53 part (b) should read, "If the voltage sources …"

p.122 Exercise 69 and Exercise 70 should both be identified with the computer icon.

Chapter 5

p. 136 Example 5.4 should read, "The value of the voltage souce must be (0.009)(5000) = 45 V."

p. 161 Exercise 10 part (c) should read, "Verify your answers by performing appropriate PSpice simulations. Submit a labeled schematic, relevant output, and a short description of the results."

p.162 Figure 5.57: The voltage source should be labeled 4 V.

p. 163 Exercise 15 should read, "… to reduce the circuit as much as possible."

p. 165 Exercise 31 part (b) should identify R_3 as having value 3 MΩ.

Chapter 6

p. 208 Exercise 5 part (a) should read "… into 4 cos 5t V."

p. 209 Exercise 16 should read, "… when I_s = –10 mA …"

p. 212 The output of the operational amplifier should be labelled V_1

p. 215 Figure 6.60(a) The middle terminals should not be shorted, or V_{out} would be zero. Thus, the horizontal line drawn from the junction of resistors R_1 and R_2 to the junction of resistors R_{Gauge} and R_3 should be omitted.

Chapter 7

p. 256 Exercise 43 should read, "Simplify the network of Fig. 7.64 if each element is a 2 pF capacitor."

Exercise 44 should read, “Simplify the network of Fig. 7.64 if each element is a 1 nH inductor.”

Figure 7.65: The unmarked resistor should be labelled R

p. 250 Exercise 7: The units should be pF.

Chapter 8

Chapter 9

p. 331 Practice 9.3: The answer is $6.838\left(e^{-7.823\times10^{10}t}-e^{-0.511\times10^{10}t}\right)$ A

p. 377 Practice Problem numbering error: there is no Problem 10.2

Chapter 10

p. 382 Example 10.2: The final amplitude is 298.5 mV (not 29.85 mV).

p. 388 Practice 10.8: The answers are

$$\text{(a) } 2.24\angle 1.4^\circ \text{ A; (b) } 6.11\angle 97.1^\circ \text{ V; (c) } 4.73\cos(t+31.2^\circ) \text{ A}$$

Chapter 11

Chapter 12

p. 473 Table 12.1 should read:

	Power Per Phase
	$V_L \frac{I_L}{\sqrt{3}} \cos\theta$
	$V_L \frac{I_L}{\sqrt{3}} \cos\theta$