



# Electric Circuits Fundamentals

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## FIRST-PRINTING ERRATA (Updated Nov. 21, 2005)

Page 034, 5th line from bottom: rewrite as: By KCL,  $i_{X_2} = i_{X_1} + i_{X_3} = 1 + 3\dots$

Page 094, end of Problem 2.38: change  $0.5R$  to  $0.1R$

Page 192, 2d line from bottom: change  $i_q$  to  $i_Q$

Page 225, Exercise 5.15, ANSWER: change  $10 \text{ V/V}$  to  $3.333 \text{ V/V}$

Page 243, Figure P5.47: change label from  $v_o/(5 \text{ k}\Omega)$  to  $v_o/(5 \text{ k})$

Page 254, Example 6.4, last line: change  $18.75 \text{ mW}$  to  $18 \text{ mW}$

Page 275, 3rd line of Exercise 6.21: change  $200.000$  to  $200,000$

Page 282, Problem 6.31, 2nd line: change  $R_3$  to  $R_2$

Page 285, Problem 6.48, 1st line: change  $6.24(a)$  to  $6.23$

Page 373, Figure P8.24: change label from  $k_g i_X$  to  $k_g v_X$

Page 381, 4th line of Solution: change  $i(t)$  to  $i(0^+)$

Page 392, Right-hand of Equation (9.32): change  $\omega_0 y(\infty)$  to  $\omega_0^2 y(\infty)$

Page 411, Figure 9.19(b): change the horizontal axis label from  $\omega_0 \sqrt{1-\zeta^2} t$  to  $\omega_0 \sqrt{1-\zeta^2} t$

Page 418, Problem 9.38, 1st line: change  $v_o(t \geq 0^+)$  to  $v(t \geq 0^+)$

Problem 9.39, 1st line: change  $v(t \geq 0^+)$  to  $v_o(t \geq 0^+)$

Page 512, Problem 11.25, 2nd line: change  $C$  to  $A$

Page 513, end of Problem 11.29: append and such that  $|V|/|I|/10 \Omega$

Page 575, Problem 12.76, 4th line: change  $V$  to  $\Omega$

Page 603, end of Problem 13.15: change  $\theta_i$  to  $\theta_v$

Page 603, Problem 13.23: 1st line: change  $500\text{-mH}$  to  $500\text{-}\mu\text{H}$

3rd line: change  $16 \text{ Mrad/s}$  to  $1 \text{ Mrad/s}$

Page 618, Fig. 14.4: the abscissa of the conjugate zero pair should be  $-2$  instead of  $-3$

Page 654, Equation (14.99a): change  $\sqrt{1-\zeta^2}$  to  $\sqrt{1-2\zeta^2}$

Page 655, 8th line from bottom: change  $10\sqrt{1-0.25^2} = 9.68$  to  $10\sqrt{1-2 \times 0.25^2} = 9.35$

Page 676, Problem 15.56: in the denominator change  $10^4 s$  to  $10^3 s$

Page 715, Equation (15.39): change  $(p\xi)$  to  $p(\xi)$

Page 809, Problem 16.40, 1st equation term: change  $dy_1^2(t)/dt^2$  to  $d^2 y_1(t)/dt^2$

ANS-6, 2.39: Refer  $v_o$  to the negative terminal of the source.

ANS-14, 8.49: change  $10\exp[-t/(50 \mu\text{s})]$  to  $10\{\exp[-t/(50 \mu\text{s})] - 1\}$

ANS-16, 11.37: change existing line to: Both  $2.5/-90^\circ \text{ V}$  (+ @ top)

ANS-17, 11.53, 2nd line: change  $18$  to  $30$ ; 11.69: change (a)  $\cos$  to (a)  $9.995 \cos$   
change (c)  $99.95 \cos$  to (c)  $99.995 \cos$ ; 12.1: change  $\text{mW}$  to  $\text{W}$  throughout

ANS-18, 12.29: change existing line to  $278.7 + j40.05 \text{ m}\Omega$ ;  $0.9898$ , lagging

12.31: change (a)  $0.8688$  to (a)  $0.8688$ , lagging

ANS-19, 12.69: change as: (a)  $0.6130$ , leading; (b)  $0.1833$ , leading

12.71: change  $-614.5$  to  $614.5 \text{ W}$ ; end of 13.15: change  $-24.84^\circ$  to  $-25.84^\circ$

**ANS-22, 14.51: in (b) change 48.99 to 47.96**

**ANS-27, 16.31, part (c): change  $u(t - 1)$  to  $u(t - \pi)$**