Schwarz & Oldham (2nd edition) — ERRATA

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Chapter 1

p. 21:   Last line of solution to Example 1.2 is missing. It should say

$$I_1 = -(-1.6 \times 10^{-19})(10^{13}) = 1.6\mu A$$

p. 26:   Last line: should be (-15,000 - 0)

p. 28:   Middle of page: should be "E =", not "P ="

Chapter 2

p. 50: Figure caption should refer to *resistances*, not *capacitances*.

p.53: Table 2.1: Property of ideal voltmeter should read $I_1 = I_2 = 0$

p. 56: Answer to Exercise 2.3 should be 0.504 V.

p.56: Remove "+" and "-" signs from current source in Fig. 2.14.

p. 65:   Next-to-last line: Fig. 2.22, not 2.23.

p. 78:   Fig. 2.32: **Remove** "+" and "-" signs from the left-hand current source.

p. 80:   Fig. 2.35: Terminal at right should be marked "B".

Chapter 3

p. 113: Typo 7 lines from bottom of page. Should be "The same..."

p. 118: To Fig. 3.31 add legend: $I_1 = 0.5\,mA$, $I_2 = 10\,mA$

p. 123:   Problem 3.14(b): Replace "Fig. 3.37" by "Fig. 3.38"

p. 133, line 3: Should say $i_1 = -v_0 / R_1$.

Chapter 4

p. 142: Fig. 4.12(a): Should say "output resistance R_0" at right. (The "R_0" is missing.)

p. 144: 15th line from bottom, should refer to Eqns (4.1)-(4.3), not (7.1)-(7.3).

148:   Fig. 4.16: R_1 should be R_5

149:   Fig. 4.17: R_1 should be R_i
Also, in last equation on page, R should be R_i

150:   Eqn (4.5): R should be R_i.

p. 153, end of figure 4.23 caption: $A' = v_{oc}/v_{test}$

p. 157, third line from bottom should read: "Similarly, from EQ. (4.12), we have ..."

p. 174:   Prob. 4.17: Fig. 4.9(b) (not 4.49)

p. 175:   Prob. 4.21: Fig. 4.9(b) (not 4.49). Let $R_L = R_S =$ 1000 ohms.
Prob. 4.22: Same
Prob. 4.23: Fig. 4.9(b) (not 4.4)

p. 175, Prob. 4.20: Should be Fig. 4.46, not Fig. 4.17

Chapter 5

p. 188:   Second equation: Numerator should be $C_2 + C_1$ (not $1 + C_1$)

p. 192: (top) second integral should end in "dt"

p. 193:   Eqn. (5.4): Integrand should be $L \frac{di}{dt} i(t) dt$

p. 193: Exercise 5.3: Factor of ½ omitted from answer

Chapter 6

p. 215, first equation should be

$$M = \sqrt{(3.6)^2 + (2.9)^2} = 4.6$$

p. 227: Top equation: delete third "equals" sign.

p. 229: There is a ω missing from the top two equations. In the third equation there is a ½ω missing.

p. 231:   Exercise 6.4: Correct answer is 40 watts

p. 234: Caption, Fig. 6.14: ω_R, not w_R.

Chapter 7

p. 252, second line of math: Those are two separate equations, of the form $v_T = $ something and $z_T = $ something.

p. 261: Delete top two lines (which are repeated from last page.)

262:   Second line below figure: Remove comma between R and C

p. 269: In first part of equation (7.32), that should be Z_L, not "Z", in denominator.

p. 270: parentheses needed in first line of Solution: should be (10 + j20) Ω.

p. 276: Prob. 7.17 should refer to Figs. 7.25(a) and 7.25(b) — not 7.26.

p. 279, Fig. 7.30: Top number on dB scale should be "zero," not "one." On the other vertical scale tl

numbers should be "one" and "0.1".

Chapter 9

p. 355: In Problem 9.5, it should say R-sub-i (not R-sub-one) becomes infinitely large.

Chapter 10

p. 383: In Figure 10.18, terminal "D" should be grounded.

p. 385: In problem 10.21, delete the "4" from the final expression.

Chapter 12

p. 463, Table 12.3, last line under "ASL" should read *notation*, not "rotation." Also in the third line under "ASL" there should be a period after "number". In the last line of text under "ASL", that should be 66, not 55.

p. 474, Prob. 12.30(b): change "0.39 percent error" to "0.0039 volt error."

Chapter 13

p. 507, Fig. 13.25: Arrow missing from symbol for current source. (It points down.)

p. 525, Eqn. 13.11: "equals" sign should be "approximately equals" sign.

Chapter 14

p. 589: Problem 14.24 should read "...using the approximate results of problems 14.21(b) and 14.22."

Chapter 15

p. 626, Problem 15.10, should refer to Fig. 15.5. (Not Fig. F15.5.)

Answers to Problems (P. 747)

Prob. 2.10(a): Answer in back of book is wrong—Needs minus sign

Prob. 2.26 answer: kΩ, not Ω

Prob. 2.32(b) answer: ohms, not volts

Problem 2.34 answer: I_0 is between 0.1715 mA and 0.1761 mA.

Prob. 3.20 (answer): should be $I_{SC} = -3$ mA.

Prob. 3.32: 0.45 mW

Delete answer to Problem 3.36.

Prob. 4.14: Minus sign omitted in answer

Prob. 6.18 (answer): Delete "17".

Prob. 6.20: **c.** $A = 2.9$, $\Phi = 11.2°$.

Prob. 6.36: add answers to (c) and (d): (c) 96 mW; (d) No.

Prob. 7.8: answer should be 71.7 - 45.0j;

Prob. 7.18 (answer): plus a second equation which is left to the student.

Prob. 7.26 (answer): 1008.5 *microwatts*

Prob. 7.44 (answer): should be

$$\frac{|I_N|^2}{8}\left(\frac{R_N^2 + X_N^2}{R_N}\right)$$

Problem 8.8(b): answer should be *minus* 1.5 volt

Problem 10.6: Subscript wrong. Should be $\frac{V_{PS}}{2}$

Prob. 12.30: answer should be 0.175/f

Prob. 12.32(b): answer should be 344.