Text Corrections

Page 33  The first answer to the exercise at the bottom of the page should be 9.20 kohms.

Page 46  The units on the vertical axis of Fig. 2.4 should be cm$^{-3}$.

Page 108  Exercise: 2.13 mA, 1.13 mA, -1.27 V

Page 117  Exercise: 0.912 ms, 19.7$^\circ$

Page 118  Exercise at bottom: 0.994 V, 1.07 V

Page 172  Units in the equation near the bottom of the page should be A/V$^2$

Page 178  Third exercise (25.4 uA, 6.52 V)

Page 182  Exercise answer should be 83.2 uA

Page 186  Exercise (2.22 uA, 2.96 mV)

Page 192  Last exercise 127 GHz

Page 193  Near the end of the first sentence: 10$^5$ V/cm
Page 217  Last answer in exercise - 1.07 mA

Page 223  Exercise answers (b) 0.300 fA, 5.26 aA, -0.305 fA

Page 229  $V_{CE}$ in second exercise should be 5.44 V

Page 237  The units on $D_n$ in the exercise are cm$^2$/s.

Page 240  First exercise - 1.24 uF

Page 250  Q-Point: (206 uA, 4.18 V)

Page 278  Fig. 6.3(a): Remove the labels and arrows indicating $NM_L$ and $NM_H$.

Page 301  Exercise; $I_{DD} = 278$ uA

Page 306  In the figure, the voltages should be $V_{DSS} = 0.20$ V  $V_{DSL} = 3.10$ V

Page 321  Spice Results Table: 11000  132  64.4  0 | 11111  64.6  31.9  31.9

Page 330  Exercise: 4.47 ns $\rightarrow$ 4.97 ns, 3.84 ns $\rightarrow$ 2.84 ns

Page 358  Exercise: 1.27 V

Page 362  $C = 0.75$ pF in the first exercise. $\tau_p = 2.4 \times (2pF/0.75pF) \times (2/1)/(8/1) = 1.6$ ns Also "delay of 1.6 ns" just above the equation. The delay in Fig. 7.13(b) is 1.6 ns.

Page 362  In the second exercise:  $(W/L)_P = 78.8/1$  $(W/L)_N = 31.5$

Page 380  Exercise: $P = 12.5$ mW

Page 456  The frequency used in the simulations is 2000 Hz, not 1000 Hz.

Page 549  Example 11.2: The gain of E1 should be negative, $-10^9$

Page 573  Gain block E1 is not connected properly in Example 11.8. E1 should be flipped (mirrored) vertically, and the inverting input should be connected to the positive output.

Page 626  Example 12.6: Known information: $A = 80$ dB

Page 656  SPICE Results: $R_{in} = 28.9$ Tohms  ($10^{12}$)

Page 700  VAF should be 75 V in the SPICE simulation

Page 725  The SPICE value of the input resistance should be 14.8 k$\Omega$, not 16.0 k$\Omega$. 
Example 13.10 - "with feedback bias" should be deleted

SPICE results: $V_{CE} - V_{BE} = 7.90$ V and BF = 116

SPICE Exercise Results: 64.164 uV, 0.520

Pages 1021 & 1030 Examples 16.6 and 16.7: $C_1 = C_2 = 3.9$ uF, $C_3 = 0.082$ uF

- Problem Statements

2.48 The second dimension in Fig. P2.48 should be 2 $\mu$m, not 3 $\mu$m

4.39 Page (c) should refer to Fig. P4.39(b).

4.134 $V_{DS} = -5$ V

7.91 Use $V_{DD} = 2.5$V

8.23 $C_{BL} = 500$ fF

11.10 & 11.18 $V_S$ should be $v_S$

13.33 $R_S = 1$ kohms and $R_4 = 1$ kohms

14.1 In Fig. 14.1(m), the power supply should be positive: $+V_{DD}$.

14.14 $V_{CC} = 15$ V, $-V_{EE} = -15$ V

14.69 $C_3 = 2.2$ uF.

14.76 Ignore reference to $C_3$.

14.115 $C_3 = 2.2$ uF

14.122 $C_1 = C_2 = C_3 = 1$ uF.

15.96 Ignore the last sentence in the problem statement.

15.203 Problem should refer to Prob. 15.202.

16.65 Problem should refer to Prob. 16.14(e).
$R_L$ is connected between the collectors of transistors $Q_1$ and $Q_2$.

The transistor parameters should be $K_p = 1.25 \text{ mA/V}^2$ and $V_{TN} = -4 \text{ V}$.

$R_S = 820 \Omega$, and the transistor parameters should be $K_p = 1.25 \text{ mA/V}^2$ and $V_{TN} = -4 \text{ V}$.