Technically Significant Errata
for
Principles of Electronics

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Cover page 2: Add pin numbers 1-3 from bottom to top of TO5 package. Add pin 3 indication to case of TO3 package.

Cover page 3: Interchange OUTPUT B and OFFSET B labels on 747 dual op amp symbol.

Page xvii: At 11.5.4, change "World-" to "Word-".

Page 12, Fig. 1.7: Current arrow on lower branch should point left.

Page 20, Eq 1.32: In second eq, change "V_A" to "V_B".

Page 42, Fig 2.5a Reverse direction of current arrow.

Page 79, Prob. 11: Change two figure references to 2.4a and 2.4c.

Page 90, Fig 3.4c,d: Note that the slopes as drawn are incorrect and do not match the labels.

Page 103, Fig 3.10: Change bottom "$\sigma > 0$" to "$\sigma < 0$".

Page 107, Paragraph 2. The first two sentences define the term "dominant-pole" but the term doesn't appear here.

Page 110, Eq 3.60 and 3.61: Interchange subscripts "low" and "high".

Page 111, Fig 3.15c: In caption, change ω_L to ω_{L1} and ω_H to ω_{L2}.

Page 116, Fig 3.17: *X* axis label on three right side figures should be ω/ω_r.

Page 119, Fig 3.20: Change labels on vertical elements to $R/2$ and $2C$.

Page 127, Prob 21 and 24: Change "+ j" to "$\pm j$".

Page 128 Prob 28: Change Eq. (3.74) to Eq. (3.78).

Page 135 Eq. 420 Second equation should read $v_2 =$.

Page 140, Fig 4.6d: Replace $\mathbf{Z}_{in} = \mathbf{Z}_1 // \mathbf{Z}_2$ with $\mathbf{Z}_{in} = \mathbf{Z}_1\mathbf{Z}_2/(\mathbf{Z}_1+\mathbf{Z}_2)$.

Page 142, Ex. 4.1 — Last expression in first equation should be $n^2/(j\omega C)$

Page 145, Fig 4.8d: — Replace $\mathbf{M}^2$ with n^2.

Page 168, Eq 5.11 — Change - to + in denominator.

Page 177, Fig 5.19c: — Reverse direction of current I arrow.

Page 178, Fig 5.20: — Add series diode pointing from C_1-diode node to C_2.

Page 180, Fig 5.21a: — Move V_2 line up to match top of V_1 sine wave.

Page 185, Fig 5.24c: — Add "(c) Typical input and output voltage signals."

Page 185, Prob 1: — Answer should read $2X10^{-12}$.
Prob 2: — Replace "$16 X 10^{12}$" with "$6 X 10^{-11}$".

Page 201, Ex. 6.1 — Remove "volts" from the last sentence.

Page 203, last sentence of second paragraph: Change "i_C <<" to $|i_C|$ <<"..

Page 203, text under 6.2.6: Change two figure references from 6.8b to 6.8c.

Page 205, Eq. 6.29 — Should read $V_C = V_{CC}(1 - h_{FE}R_C/R_B)$

Page 206, third eq from bottom of page: Change V_{CC} to V_C in numerator after I_B.

Page 216, Fig 6.16b: — Replace caption to read "The equivalent circuit of the input loop."

Page 229, last text line before 6.8.2 heading: Replace "V_{GS}" with "$V_{GS} = 0$".

Page 237, Eq. 6.96: — Voltage difference in the first term should be "($\mathbf{v}_G$ - $\mathbf{v}_D$)".
Eq. 6.97 — Change sign from "+1" to "-1".

Page 251, Fig P6.18: — Change "h_{FE} = 1w" to "h_{FE} = 100".
Prob 19: — Replace "6.12" with "P6.13".

Page 258, Fig 7.2b: — Replace "20 kΩ" with "15 kΩ" once on figure and three times in equations.

Page 264, Fig 7.6a: — Replace "CC" with "CD" on first occurrence only in caption.

Page 265, second line after Sec. 7.5: Change Figure 7.6b to 7.6c.
last line this paragraph: Change "Q_2 is effectively" to "Q_1 is effectively"

Page 282, Fig 7.20: Change "C " to "C_1" near center of figure.

Page 283, 9th line in para 4: "dominate" should be "dominant".

Page 284, Fig P7.6: Label the emitter output of last transistor with "E".
Prob 6b: Change "R_B" to "the 5 kΩ resistor".

Page 285, Prob 11: Interchange words "Sziklai" and "Darlington".
Fig P7.11: Output transistor should be a PNP oriented as on Figure P7.6.

Page 287, Prob 20b: Change "V_{out}" to "v_{out}".

Page 288, 7 lines from bottom: "dominate-pole" should be "dominant-pole"

Page 289, Eq 8.2: Change "$\mathbf{A}_0$" to "$\mathbf{A}_0$".

Page 303, Second eq: Add "-" inside open parenthesis.

Page 309, Fig 8.15: Add ground symbols to the bottom line of both figures.

Page 342, Prob 19: Change figure reference to 8.18b.

Page 344, Prob 29: Change last two figure references to 7.11a and 7.20.

Page 361, Eq 9.26: Top bar should be broken in center.
Eq 9.27: Broken bar should be continuous.

Page 370, Fig 9.14b,c: All overbars should be broken between adjacent letters as in (a).

Page 379, 2nd para: Change "V_{++}" to "V_{CC}" and "30 V" to "+30 V".

Page 383, Fig 9.23a: Change "2 Ω" to "2 kΩ".

Page 389, Fig 9.27a: Change "S" to "S_C" and "R" to "R_C" as in Fig 9.26b.

Page 398, Fig 9.36b: Add arrows to right end of upper and lower curved lines.

Page 401, Fig 9.38b Three flip flops should be labeled A, B, C not C, B, A.

Page 417, Fig 10.5b: Remove four open-dots from triangle driver symbols.

Page 436, Fig 10.20a: Extend the "Threshold" pin 6 line to the left and connect it to the V_C line. Also place an inverting circle on the amplifier output driving pin 3.

Fig 10.20b: Relabel V_{output} as V_Q and remove V_{++} symbol.

Page 438, Fig 10.21: Remove five open-dots from input of OR symbol.

Page 466, 5th para: Change "Figure 9.37b" to "Figure 9.37a".

Page 482/3, Fig 11.13: The last sentence of caption on page 483 refers to Figure 11.13a.

Page 506, after 12.11: Change "$1/2\pi$" to "$d\omega/2\pi$".

Page 511, Fig 12.4e: Exponent should be negative in *f* and *F* equations.

Page 514, 2nd line after Eq 12.28: Remove "unit-amplitude".

Page 547, Example 13.2 and Fig 13.8: Omit both. The argument is incorrect: There is no shot noise in this circuit configuration.

Page 569, Fig P13.13: Interchange "+" and "-" symbols on both amplifier symbols.

Page 491, Fig 11.19b: The incident and reflected pulses on the middle waveform should extend to the reflection boundary.

Page 595, Fig 14.55: Change "$n = 1$" to "$n = 0, 1$".

Page 614, 4th line: Change "7.9b" and "7.9c" to "6.9b" and "6.9c".

Page 615, last para: Insert "to that" after "-*A*"

Page 623 index Change "dominate pole" to "dominant-pole"
Add pages 107, 288 and 289.