

Errata for *Basic Electronics for Scientists and Engineers*

Last update: February 21, 2012

Page 61, Eq. 2.124: plus and minus signs should alternate as follows:

$$f(t) = \frac{8V_p}{\pi^2} \left[\sin \omega_1 t - \frac{1}{9} \sin 3\omega_1 t + \frac{1}{25} \sin 5\omega_1 t - \frac{1}{49} \sin 7\omega_1 t + \dots \right]$$

Page 67, Exercise 16: The answer for this exercise (p. 236) is wrong, as is the solution in the instructor's manual. The correct output will look something like the RC=T/2 case in Fig. 2.7. Alternately, the answer is correct if we add the following (admittedly contrived) assumption to the exercise: Assume the filter totally blocks any frequencies above the breakpoint frequency.

Page 129, Eq. 4.50: There is an extra v_1 at the end of the equation. It should read

$$v_1 = v_{\text{in}} + \beta v_{\text{out}} = v_{\text{in}} + \beta i_{\text{out}} R_L = v_{\text{in}} + \beta R_L \left(\frac{av_1}{R_L + r_{\text{out}}} \right).$$

Page 221, Fig. 8.34: The labels on two of the inputs are reversed. The one labeled S should be R, and the one labeled R should be S.

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