

**CHAPTER 3****3.1** Output = 5 Volts =  $V_o$ Input = 5  $\mu\text{V}$  =  $5 \times 10^{-6}$  volts =  $V_i$ 

$$\text{Gain} = G = \frac{V_o}{V_i} = \frac{5}{5 \times 10^{-6}} = 10^6$$

$$G_{dB} = 20 \log_{10} G = 20 \log_{10} 10^6 = 120 \text{ dB}$$

**3.2** $G_{dB} = 60 \text{ dB}$  $V_i = 3 \text{ mV} = 3 \times 10^{-3}$  volts $G_{dB} = 60 \text{ dB} = 20 \log_{10} G$ 

$$3 \text{ dB} = \log_{10} G$$

$$\Rightarrow G = 10^3$$

$$\Rightarrow G = V_o/V_i$$

$$V_o = G \times V_i = 10^3 (3 \times 10^{-3}) \\ = 3 \text{ volts}$$

**3.3** Eq. 3.2 applies. For  $G = 10$ ,  $G_{dB} = \log_{10}(10) = 20$ . Similarly, for  $G = 100$  and 500, the decibel gains are 40 and 54.**3.4** The circuit resembles Fig. 3.9 (a). For this problem we want the voltage drop across the resistor  $R_s$  to be  $0.01 \times V_s$ . The current in the loop is  $I = V_s / (R_s + R_i)$  and the voltage drop across the resistor is  $V_{drop} = I \times R_s$ .

Combining these:

$$0.01 \times V_s = V_s / (R_s + R_i) \times R_s = V_s / (120 + R_i) 120. \text{ Solving for } R_s, \text{ we get}$$

$$R_s = 11,880 \Omega.$$

**3.5** The circuit resembles Fig. 3.9(a). The input voltage,  $V_i$ , is  $I \times R_s$ . The current is  $V_s / (R_s + R_i)$ . Combining,  $V_i = R_s \times V_s / (R_s + R_i)$ . In the first case:

$$0.005 = 5 \times 10^5 \times V_s / (R_s + 5 \times 10^6) \text{ For the second case:}$$

$$0.0048 = 10,000 \times V_s / (R_s + 10,000) \text{ These can be solved simultaneously to give}$$

$$R_s = 416 \Omega.$$

# Introduction To Engineering Experimentation 3rd Edition Solutions

**Mark Steyvers**



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The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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