

**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 Solutions

**Y Pai**



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## **Table of Contents Introduction To Engineering Experimentation Solutions**

1. Understanding the eBook Introduction To Engineering Experimentation Solutions
  - The Rise of Digital Reading Introduction To Engineering Experimentation Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Engineering Experimentation Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Introduction To Engineering Experimentation Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Engineering Experimentation Solutions
  - Personalized Recommendations
  - Introduction To Engineering Experimentation Solutions User Reviews and Ratings

- Introduction To Engineering Experimentation Solutions and Bestseller Lists
- 5. Accessing Introduction To Engineering Experimentation Solutions Free and Paid eBooks
  - Introduction To Engineering Experimentation Solutions Public Domain eBooks
  - Introduction To Engineering Experimentation Solutions eBook Subscription Services
  - Introduction To Engineering Experimentation Solutions Budget-Friendly Options
- 6. Navigating Introduction To Engineering Experimentation Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Introduction To Engineering Experimentation Solutions Compatibility with Devices
  - Introduction To Engineering Experimentation Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Introduction To Engineering Experimentation Solutions
  - Highlighting and Note-Taking Introduction To Engineering Experimentation Solutions
  - Interactive Elements Introduction To Engineering Experimentation Solutions
- 8. Staying Engaged with Introduction To Engineering Experimentation Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Introduction To Engineering Experimentation Solutions
- 9. Balancing eBooks and Physical Books Introduction To Engineering Experimentation Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Introduction To Engineering Experimentation Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Introduction To Engineering Experimentation Solutions
  - Setting Reading Goals Introduction To Engineering Experimentation Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Introduction To Engineering Experimentation Solutions
  - Fact-Checking eBook Content of Introduction To Engineering Experimentation Solutions
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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