

CHAPTER 3**3.1** Output = 5 Volts = V_o Input = 5 μV = 5×10^{-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:

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

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

$$R_s = 416 \Omega.$$

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Katrin Zwirglmaier



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Table of Contents Introduction To Engineering Experimentation 3rd Edition Solutions

1. Understanding the eBook Introduction To Engineering Experimentation 3rd Edition Solutions
 - The Rise of Digital Reading Introduction To Engineering Experimentation 3rd Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Engineering Experimentation 3rd Edition 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 3rd Edition Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Engineering Experimentation 3rd Edition Solutions
 - Personalized Recommendations
 - Introduction To Engineering Experimentation 3rd Edition Solutions User Reviews and Ratings

- Introduction To Engineering Experimentation 3rd Edition Solutions and Bestseller Lists
- 5. Accessing Introduction To Engineering Experimentation 3rd Edition Solutions Free and Paid eBooks
 - Introduction To Engineering Experimentation 3rd Edition Solutions Public Domain eBooks
 - Introduction To Engineering Experimentation 3rd Edition Solutions eBook Subscription Services
 - Introduction To Engineering Experimentation 3rd Edition Solutions Budget-Friendly Options
- 6. Navigating Introduction To Engineering Experimentation 3rd Edition Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Introduction To Engineering Experimentation 3rd Edition Solutions Compatibility with Devices
 - Introduction To Engineering Experimentation 3rd Edition Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Engineering Experimentation 3rd Edition Solutions
 - Highlighting and Note-Taking Introduction To Engineering Experimentation 3rd Edition Solutions
 - Interactive Elements Introduction To Engineering Experimentation 3rd Edition Solutions
- 8. Staying Engaged with Introduction To Engineering Experimentation 3rd Edition Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Engineering Experimentation 3rd Edition Solutions
- 9. Balancing eBooks and Physical Books Introduction To Engineering Experimentation 3rd Edition Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Engineering Experimentation 3rd Edition Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Introduction To Engineering Experimentation 3rd Edition Solutions
 - Setting Reading Goals Introduction To Engineering Experimentation 3rd Edition Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Introduction To Engineering Experimentation 3rd Edition Solutions
 - Fact-Checking eBook Content of Introduction To Engineering Experimentation 3rd Edition 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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