

chapter 4

(4.1)



$$K = 20 \text{ mA/V}$$

$$\left| \frac{v_{out}}{v_{in}} \right| = 15 \quad v_{in} = v_i$$

$$v_{out} = -I_1 R_L = -K R_L v_{in}$$

$$\Rightarrow \frac{v_{out}}{v_{in}} = -K R_L \Rightarrow \left| \frac{v_{out}}{v_{in}} \right| = K R_L$$

$$\Rightarrow K R_L = 15 \Rightarrow R_L = \frac{15}{20 \text{ mA/V}} = 750 \Omega$$

$$\boxed{R_L = 750 \Omega}$$

Fundamentals Of Microelectronics Solution Manual

Chapter 4

Minjie Lin



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Table of Contents Fundamentals Of Microelectronics Solution Manual Chapter 4

1. Understanding the eBook Fundamentals Of Microelectronics Solution Manual Chapter 4
 - The Rise of Digital Reading Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Microelectronics Solution Manual Chapter 4
 - 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 Fundamentals Of Microelectronics Solution Manual Chapter 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Personalized Recommendations
 - Fundamentals Of Microelectronics Solution Manual Chapter 4 User Reviews and Ratings
 - Fundamentals Of Microelectronics Solution Manual Chapter 4 and Bestseller Lists
5. Accessing Fundamentals Of Microelectronics Solution Manual Chapter 4 Free and Paid eBooks
 - Fundamentals Of Microelectronics Solution Manual Chapter 4 Public Domain eBooks
 - Fundamentals Of Microelectronics Solution Manual Chapter 4 eBook Subscription Services
 - Fundamentals Of Microelectronics Solution Manual Chapter 4 Budget-Friendly Options
6. Navigating Fundamentals Of Microelectronics Solution Manual Chapter 4 eBook Formats
 - ePub, PDF, MOBI, and More
 - Fundamentals Of Microelectronics Solution Manual Chapter 4 Compatibility with Devices
 - Fundamentals Of Microelectronics Solution Manual Chapter 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Highlighting and Note-Taking Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Interactive Elements Fundamentals Of Microelectronics Solution Manual Chapter 4

8. Staying Engaged with Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Microelectronics Solution Manual Chapter 4
9. Balancing eBooks and Physical Books Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Of Microelectronics Solution Manual Chapter 4
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Setting Reading Goals Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fundamentals Of Microelectronics Solution Manual Chapter 4
 - Fact-Checking eBook Content of Fundamentals Of Microelectronics Solution Manual Chapter 4
 - 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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