

Ex: 1.1 When output terminals are open circuited

For circuit a,  $v_{OC} = v_2(t)$

For circuit b,  $v_{OC} = i_2(t) \times R_2$

When output terminals are short-circuited

For circuit a,  $i_{sc} = \frac{v_2(t)}{R_2}$

For circuit b,  $i_{sc} = i_2(t)$

For equivalency

$R_2 i_2(t) = v_2(t)$

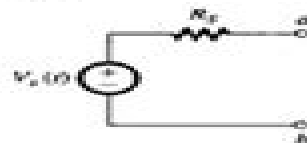


Figure 1.1a

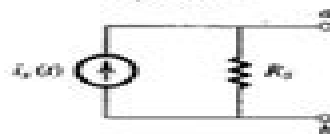


Figure 1.1b

Ex: 1.2



$V_{OC} = 10 \text{ mV}$

$i_{sc} = 10 \text{ } \mu\text{A}$

$R = \frac{V}{i} = \frac{10 \text{ mV}}{10 \text{ } \mu\text{A}} = 1 \text{ k}\Omega$

Ex: 1.3 Using voltage divider



$v_o(t) = v_2(t) \times \frac{R_2}{R_1 + R_2}$

Given  $v_2(t) = 10 \text{ mV}$  and  $R_1 = 1 \text{ k}\Omega$

If  $R_L = 100 \text{ k}\Omega$

$v_o = 10 \text{ mV} \times \frac{100}{100 + 1} = 9.9 \text{ mV}$

If  $R_L = 10 \text{ k}\Omega$

$v_o = 10 \text{ mV} \times \frac{10}{10 + 1} = 9.1 \text{ mV}$

If  $R_L = 1 \text{ k}\Omega$

$v_o = 10 \text{ mV} \times \frac{1}{1 + 1} = 5 \text{ mV}$

If  $R_L = 100 \text{ } \Omega$

$v_o = 10 \text{ mV} \times \frac{100}{100 + 1 \text{ K}} = 0.91 \text{ V}$

80% of source voltage =  $10 \text{ mV} \times \frac{80}{100} = 8 \text{ mV}$

If  $R_L$  gives 8 mV when  $R_1 = 1 \text{ k}\Omega$ , then

$8 = 10 \times \frac{R_L}{1 + R_L} \Rightarrow R_L = 4 \text{ k}\Omega$

Ex: 1.4 Using current divider



$i_o = i_s \times \frac{R_1}{R_1 + R_L}$

Given  $i_s = 10 \text{ } \mu\text{A}$ ,  $R_1 = 100 \text{ k}\Omega$

For

$R_L = 1 \text{ k}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 1} = 9.9 \text{ } \mu\text{A}$

For  $R_L = 10 \text{ k}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 10}$

$\approx 9.1 \text{ } \mu\text{A}$

For

$R_L = 100 \text{ k}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 100} = 5 \text{ } \mu\text{A}$

For

$R_L = 1 \text{ M}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100 \text{ K}}{100 \text{ K} + 1 \text{ M}}$

$\approx 0.9 \text{ } \mu\text{A}$

80% of source current =  $10 \times \frac{80}{100} = 8 \text{ } \mu\text{A}$

If a load  $R_L$  gives 80% of the source current, then

$8 \text{ } \mu\text{A} = 10 \text{ } \mu\text{A} \times \frac{100}{100 + R_L}$

$\Rightarrow R_L = 25 \text{ k}\Omega$

# Microelectronic Circuits 6th Edition Solution Manual Scribd

**Thomas Griffiths**



**Microelectronic Circuits 6th Edition Solution Manual Scribd:**

This book delves into Microelectronic Circuits 6th Edition Solution Manual Scribd. Microelectronic Circuits 6th Edition Solution Manual Scribd is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Microelectronic Circuits 6th Edition Solution Manual Scribd, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 2: Essential Elements of Microelectronic Circuits 6th Edition Solution Manual Scribd
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    - Chapter 4: Microelectronic Circuits 6th Edition Solution Manual Scribd in Specific Contexts
    - Chapter 5: Conclusion
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## **Table of Contents Microelectronic Circuits 6th Edition Solution Manual Scribd**

1. Understanding the eBook Microelectronic Circuits 6th Edition Solution Manual Scribd
  - The Rise of Digital Reading Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Advantages of eBooks Over Traditional Books
2. Identifying Microelectronic Circuits 6th Edition Solution Manual Scribd
  - 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 Microelectronic Circuits 6th Edition Solution Manual Scribd
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Personalized Recommendations
  - Microelectronic Circuits 6th Edition Solution Manual Scribd User Reviews and Ratings
  - Microelectronic Circuits 6th Edition Solution Manual Scribd and Bestseller Lists
5. Accessing Microelectronic Circuits 6th Edition Solution Manual Scribd Free and Paid eBooks
  - Microelectronic Circuits 6th Edition Solution Manual Scribd Public Domain eBooks
  - Microelectronic Circuits 6th Edition Solution Manual Scribd eBook Subscription Services
  - Microelectronic Circuits 6th Edition Solution Manual Scribd Budget-Friendly Options
6. Navigating Microelectronic Circuits 6th Edition Solution Manual Scribd eBook Formats
  - ePub, PDF, MOBI, and More
  - Microelectronic Circuits 6th Edition Solution Manual Scribd Compatibility with Devices
  - Microelectronic Circuits 6th Edition Solution Manual Scribd Enhanced eBook Features

7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Highlighting and Note-Taking Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Interactive Elements Microelectronic Circuits 6th Edition Solution Manual Scribd
8. Staying Engaged with Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microelectronic Circuits 6th Edition Solution Manual Scribd
9. Balancing eBooks and Physical Books Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microelectronic Circuits 6th Edition Solution Manual Scribd
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Setting Reading Goals Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microelectronic Circuits 6th Edition Solution Manual Scribd
  - Fact-Checking eBook Content of Microelectronic Circuits 6th Edition Solution Manual Scribd
  - 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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