

Chapter 1

Solutions to Exercises within the Chapter

Ex 1.1 When output terminals are open-circuited, as in Fig. 1.1a:

For circuit a, $v_{oc} = v_s(t)$

For circuit b, $v_{oc} = i_s(t) \times R_1$

When output terminals are short-circuited, as in Fig. 1.1b:

For circuit a, $i_{sc} = \frac{v_s(t)}{R_1}$

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

For equivalency

$$R_1 i_s(t) = v_s(t)$$

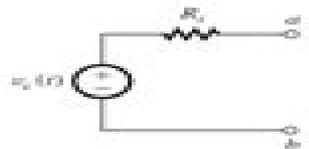


Figure 1.1a

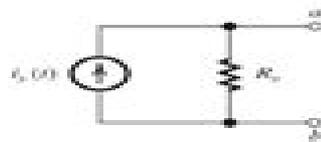
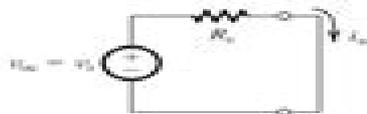


Figure 1.1b

Ex 1.2



$$v_{oc} = 10 \text{ mV}$$

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

$$R_1 = \frac{v_{oc}}{i_{sc}} = \frac{10 \text{ mV}}{10 \text{ } \mu\text{A}} = 1 \text{ k}\Omega$$

Ex 1.3 Using voltage divider:

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



Given $v_s(t) = 10 \text{ mV}$ 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 $R_L = 10 \text{ k}\Omega$

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

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

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

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

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

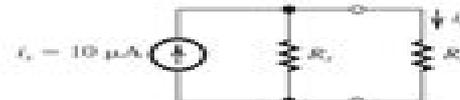
For $v_o = 0.8 v_{oc}$

$$\frac{R_2}{R_1 + R_2} = 0.8$$

Since $R_1 = 1 \text{ k}\Omega$,

$$R_2 = 4 \text{ k}\Omega$$

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

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

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

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

$$\text{For } i_o = 0.8 i_s, \frac{100}{100 + R_L} = 0.8$$

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

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Ralph J. Smith



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Table of Contents Chapter 5 Smith 5th Edition Pdf Circuits Sedra And

1. Understanding the eBook Chapter 5 Smith 5th Edition Pdf Circuits Sedra And
 - The Rise of Digital Reading Chapter 5 Smith 5th Edition Pdf Circuits Sedra And
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 5 Smith 5th Edition Pdf Circuits Sedra And
 - 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 Chapter 5 Smith 5th Edition Pdf Circuits Sedra And
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 5 Smith 5th Edition Pdf Circuits Sedra And
 - Personalized Recommendations
 - Chapter 5 Smith 5th Edition Pdf Circuits Sedra And User Reviews and Ratings
 - Chapter 5 Smith 5th Edition Pdf Circuits Sedra And and Bestseller Lists

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

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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