

Exercise 1-1

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, $v_{oc} = 1.00 \times R_2$

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, $i_{sc} = I_0(t)$
 For equivalency:
 $R_1 I_0(t) = v_s(t)$



Figure 1.1a



Figure 1.1b

Ex: 1.2



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

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 $R_2 = 100 \text{ k}\Omega$
 $v_o = 10 \text{ mV} \times \frac{100}{100 + 1} = 9.9 \text{ mV}$

If $R_2 = 10 \text{ k}\Omega$
 $v_o = 10 \text{ mV} \times \frac{10}{10 + 1} = 9.1 \text{ mV}$

If $R_2 = 1 \text{ k}\Omega$
 $v_o = 10 \text{ mV} \times \frac{1}{1 + 1} = 5 \text{ mV}$

If $R_2 = 100 \text{ } \Omega$
 $v_o = 10 \text{ mV} \times \frac{100}{100 + 1 \text{ K}} = 0.91 \text{ mV}$

For $v_o = 0.5v_s$,

$\frac{R_2}{R_1 + R_2} = 0.5$

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

$R_2 = 1 \text{ k}\Omega$

Ex: 1.4 Using current divider:



$I_o = I_s \times \frac{R_1}{R_1 + R_2}$

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

For $R_2 = 1 \text{ k}\Omega$, $I_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 1} = 9.9 \text{ } \mu\text{A}$

For $R_2 = 10 \text{ k}\Omega$, $I_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 10} = 9.1 \text{ } \mu\text{A}$

For $R_2 = 100 \text{ k}\Omega$, $I_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 100} = 5 \text{ } \mu\text{A}$

For $R_2 = 1 \text{ M}\Omega$, $I_o = 10 \text{ } \mu\text{A} \times \frac{100 \text{ K}}{100 \text{ K} + 1 \text{ M}}$
 $= 0.9 \text{ } \mu\text{A}$

For $I_o = 0.5I_s$, $\frac{100}{100 + R_2} = 0.5$

$\Rightarrow R_2 = 25 \text{ k}\Omega$

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 - The Rise of Digital Reading Microelectronics Circuits 5th Edition Exercises Solution
 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Popular eBook Platforms
 - Features to Look for in an Microelectronics Circuits 5th Edition Exercises Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microelectronics Circuits 5th Edition Exercises Solution

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 - Interactive Elements Microelectronics Circuits 5th Edition Exercises Solution
 8. Staying Engaged with Microelectronics Circuits 5th Edition Exercises Solution
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microelectronics Circuits 5th Edition Exercises Solution
 9. Balancing eBooks and Physical Books Microelectronics Circuits 5th Edition Exercises Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microelectronics Circuits 5th Edition Exercises Solution
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Microelectronics Circuits 5th Edition Exercises Solution
 - Carving Out Dedicated Reading Time
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