

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

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

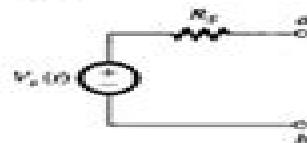


Figure 1.1a

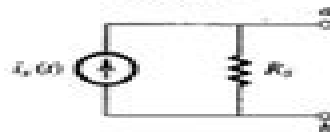


Figure 1.1b

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 $R_L = 100 \text{ } \Omega$

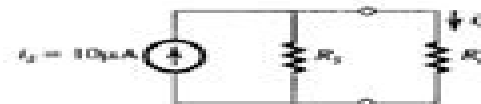
$v_o = 10 \text{ mV} \times \frac{100}{100 + 1 \text{ K}} = 0.91 \text{ V}$

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

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

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

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