

## CHAPTER 1—PROBLEM SOLUTIONS

$$1.1 \text{ (a) } I = \frac{V}{R} = \frac{10 \text{ V}}{1 \text{ k}\Omega} = 10 \text{ mA}$$

$$\text{(b) } R = \frac{V}{I} = \frac{10 \text{ V}}{1 \text{ mA}} = 10 \text{ k}\Omega$$

$$\text{(c) } V = IR = 10 \text{ mA} \times 10 \text{ k}\Omega = 100 \text{ V}$$

$$\text{(d) } I = \frac{V}{R} = \frac{10 \text{ V}}{100 \Omega} = 0.1 \text{ A}$$

Note: Volts, millamps, and kilo-ohms constitute a consistent set of units.

$$1.2 \text{ (a) } P = I^2 R = (10 \times 10^{-3})^2 \times 1 \times 10^3 = 0.9 \text{ W}$$

Thus,  $R$  should have a 1-W rating.

$$\text{(b) } P = I^2 R = (40 \times 10^{-3})^2 \times 1 \times 10^3 = 1.6 \text{ W}$$

Thus, the resistor should have a 2-W rating.

$$\text{(c) } P = I^2 R = (3 \times 10^{-3})^2 \times 10 \times 10^3 = 0.09 \text{ W}$$

Thus, the resistor should have a  $\frac{1}{4}$ -W rating.

$$\text{(d) } P = I^2 R = (4 \times 10^{-3})^2 \times 10 \times 10^3 = 0.16 \text{ W}$$

Thus, the resistor should have a  $\frac{1}{4}$ -W rating.

$$\text{(e) } P = V^2/R = 20^2/(1 \times 10^3) = 0.4 \text{ W}$$

Thus, the resistor should have a  $\frac{1}{4}$ -W rating.

$$\text{(f) } P = V^2/R = 11^2/(1 \times 10^3) = 0.121 \text{ W}$$

# Microelectronic Circuits 5th Edition Solution Manual

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