

Resistance Calculations Worksheet

resistance = <u>potential difference</u> current $R = \frac{V}{I} \qquad \qquad \text{Units: } R \text{ is } \Omega \text{ (ohms)} \\ V \text{ is } V \text{ (volts)} \\ I \text{ is A (amperes)} \\$

Find the unknown quantity:

a) I = 10 A R = 1500 Ω V = ? 15 000 V 15 kV

b) I = ? R = 200 Ω V = 240 V

c) I = 15 A R = ? V = 110 V

R = 7.333 Ω

Find the unknown quantity (CONVERT FIRST to the unit with no prefix)

WORD PROBLEMS

 How much resistance does a light bulb create if it has a current of 25 mA around it in a 9 V circuit?

I = 25 mA = 0.025 A, V = 9 V, R = ? R = 9V / 0.025 A = 360 Ω

Therefore, the lightbulb has a resitstance of 3.6 x $10^2 \Omega$

2. A heating coil offers a resistance of 2.5 k Ω . What voltage is required so that 1.5 A of current pass through it?

R = 2.5 k Ω, I = 1.5 A, V = ? V=IR V=(1.5)(2500) = 3750 V Therefore, the heating coil requires 3.75 x 10³ V

 The human body offers a very small amount of resistance (let's say 1 mΩ for argument). If a lightning bolt (said to have 1.21 GV of potential according to a famous movie called Back to the Future released in 1984), hits you how much current is flowing through your body.

 $R = 1 \text{ m}\Omega$, $V = 1.21 \times 10^9 \text{ V}$, I = ? I = V/R $I = 1.21 \times 10^9 / 1 \times 10^{-3} = 1.21 \times 10^{12} A$ Therefore, $1.21 \times 10^{12} A$ would flow through your body

Resistance Calculations Worksheet Answers

Victor M. Corman

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