

CAPACITOR PROBLEM QUESTIONS WITH SOLUTIONS

Problem 1: A $22\text{-}\mu\text{F}$ capacitor is connected to a 9-V battery. How much charge will it store?

Solution 1:

Formula: $Q = C \cdot V$.

$$C = 22\ \mu\text{F} = 22 \cdot 10^{-6}\ \text{F}.$$

$$V = 9.0\ \text{V}.$$

$$Q = (22 \cdot 10^{-6}\ \text{F}) \cdot (9.0\ \text{V}) = 198 \cdot 10^{-6}\ \text{C} = 1.98 \cdot 10^{-4}\ \text{C}.$$

$$\text{Answer: } Q = 1.98 \cdot 10^{-4}\ \text{C} = 198\ \mu\text{C}.$$

Problem 2: Two parallel metal plates each have an area of $0.020\ \text{m}^2$ and are separated by $2.0\ \text{mm}$. The space between them is air. What is the capacitance?

Solution 2:

Formula: $C = \epsilon \cdot A / d$.

$$\epsilon = 8.85 \cdot 10^{-12}\ \text{F/m}, A = 0.020\ \text{m}^2, d = 2.0\ \text{mm} = 2.0 \cdot 10^{-3}\ \text{m}.$$

$$C = (8.85 \cdot 10^{-12}) \cdot (0.020) / (2.0 \cdot 10^{-3})$$

First compute $A/d = 0.020 / 0.002 = 10.0$.

$$C = 8.85 \cdot 10^{-12} \cdot 10.0 = 8.85 \cdot 10^{-11}\ \text{F}.$$

$$\text{Answer: } C = 8.85 \cdot 10^{-11}\ \text{F} = 88.5\ \mu\text{F}.$$

Problem 3: Two capacitors, $C_1 = 4.0\ \mu\text{F}$ and $C_2 = 6.0\ \mu\text{F}$, are connected in series. Find their equivalent capacitance.

Capacitor Questions With Solutions

JG Myers



Capacitor Questions With Solutions:

Capacitor Questions With Solutions Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Capacitor Questions With Solutions**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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