

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: $Q = C \cdot V$.

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

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

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

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

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

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

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.

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Xiang Xie



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