

# CAPACITOR PROBLEM QUESTIONS WITH SOLUTIONS

**Problem 1:** A  $22\text{-}\mu\text{F}$  capacitor is connected to a  $9\text{-V}$  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.

# Capacitor Questions With Solutions

**TD Snyder**



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