

1. Two capacitors,  $C_1 = 25.0 \mu\text{F}$  and  $C_2 = 5.00 \mu\text{F}$ , are connected in parallel and charged with a 100-V power supply. (a) Draw a circuit diagram and calculate the total energy stored in the two capacitors. (b) **What If?** What potential difference would be required across the same two capacitors connected in series in order that the combination stores the same amount of energy as in (a)? Draw a circuit diagram of this circuit.

$$U = \frac{1}{2}C(\Delta V)^2$$

The circuit diagram is shown at the right.



$$(a) \quad C_p = C_1 + C_2 = 25.0 \mu\text{F} + 5.00 \mu\text{F} = 30.0 \mu\text{F}$$

$$U = \frac{1}{2}(30.0 \times 10^{-6})(100)^2 = \boxed{0.150 \text{ J}}$$

$$(b) \quad C_s = \left( \frac{1}{C_1} + \frac{1}{C_2} \right)^{-1} = \left( \frac{1}{25.0 \mu\text{F}} + \frac{1}{5.00 \mu\text{F}} \right)^{-1} = 4.17 \mu\text{F}$$

$$U = \frac{1}{2}C(\Delta V)^2$$

$$\Delta V = \sqrt{\frac{2U}{C}} = \sqrt{\frac{2(0.150)}{4.17 \times 10^{-6}}} = \boxed{268 \text{ V}}$$

2. Two capacitors,  $C_1 = 5.00 \mu\text{F}$  and  $C_2 = 12.0 \mu\text{F}$ , are connected in parallel, and the resulting combination is connected to a 9.00-V battery. (a) What is the equivalent capacitance of the combination? What are (b) the potential difference across each capacitor and (c) the charge stored on each capacitor?

- (a) Capacitors in parallel add. Thus, the equivalent capacitor has a value of

$$C_{\text{eq}} = C_1 + C_2 = 5.00 \mu\text{F} + 12.0 \mu\text{F} = \boxed{17.0 \mu\text{F}}$$

- (b) The potential difference across each branch is the same and equal to the voltage of the battery.

$$\Delta V = \boxed{9.00 \text{ V}}$$

$$(c) \quad Q_1 = C_1 \Delta V = (5.00 \mu\text{F})(9.00 \text{ V}) = \boxed{45.0 \mu\text{C}}$$

$$\text{and } Q_2 = C_2 \Delta V = (12.0 \mu\text{F})(9.00 \text{ V}) = \boxed{108 \mu\text{C}}$$

# Physics 101 Problems Solution

**WJ Hussar**



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## **Table of Contents Physics 101 Problems Solution**

1. Understanding the eBook Physics 101 Problems Solution
  - The Rise of Digital Reading Physics 101 Problems Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics 101 Problems Solution
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physics 101 Problems Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 101 Problems Solution
  - Personalized Recommendations
  - Physics 101 Problems Solution User Reviews and Ratings
  - Physics 101 Problems Solution and Bestseller Lists

5. Accessing Physics 101 Problems Solution Free and Paid eBooks
  - Physics 101 Problems Solution Public Domain eBooks
  - Physics 101 Problems Solution eBook Subscription Services
  - Physics 101 Problems Solution Budget-Friendly Options
6. Navigating Physics 101 Problems Solution eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics 101 Problems Solution Compatibility with Devices
  - Physics 101 Problems Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics 101 Problems Solution
  - Highlighting and Note-Taking Physics 101 Problems Solution
  - Interactive Elements Physics 101 Problems Solution
8. Staying Engaged with Physics 101 Problems Solution
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics 101 Problems Solution
9. Balancing eBooks and Physical Books Physics 101 Problems Solution
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics 101 Problems Solution
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physics 101 Problems Solution
  - Setting Reading Goals Physics 101 Problems Solution
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics 101 Problems Solution
  - Fact-Checking eBook Content of Physics 101 Problems Solution
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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