

Unit I - Worksheet 3: Coulomb's Law Key

1. Given the mathematical representation of Coulomb's Law, $F = k \frac{q_1 q_2}{r^2}$, where $k = 9.0 \times 10^9 \text{ Nm}^2/\text{C}^2$, describe in words the relationship among electric force, charge, and distance.

The electric force is proportional to the product of the charges and is inversely proportional to the square of the distance between the charges.

2. By how much does the electric force between a pair of charged bodies diminish when their separation is doubled? tripled?

$$F_1 = \frac{k}{r^2} \quad F_2 = \frac{k}{(2r)^2} = \frac{k}{4r^2} \quad F_2 = \frac{1}{4}F_1 \quad F_1 = \frac{k}{r^2} \quad F_2 = \frac{k}{(3r)^2} = \frac{k}{9r^2} \quad F_2 = \frac{1}{9}F_1$$

The force is 1/4th as much. *The force is 1/9th as much.*

3. Two positive charges of $6.0 \times 10^{-6} \text{ C}$ are separated by 0.50 m. Draw a force diagram for each of the charges, considering only electrostatic forces. What is the magnitude of the force between the charges? Is this force repulsive or attractive?



$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (6.0 \times 10^{-6} \text{ C})(6.0 \times 10^{-6} \text{ C})}{(.50\text{m})^2} = 1.3\text{N}$

Like charge repells, so the force is repulsive.

4. A negative charge of $2.0 \times 10^{-4} \text{ C}$ and a positive charge of $8.0 \times 10^{-4} \text{ C}$ are separated by 0.30 m. What is the magnitude of the force between the charges? Is this force repulsive or attractive?

$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (-2.0 \times 10^{-4} \text{ C})(8.0 \times 10^{-4} \text{ C})}{(.30\text{m})^2} = 1600\text{N}$

Opposite charges attract, so the force is attractive.

5. A young man accumulates a charge q_1 of $+2.0 \times 10^{-5} \text{ C}$ while sliding out of the front seat of a car. His girlfriend, who had been waiting in the wind, has picked up some extra electrons and now has a charge q_2 of $-8.0 \times 10^{-5} \text{ C}$.

Draw a sketch of the situation. Estimate the magnitude of the electrical force that each person exerts on the other when separated by a distance of 6.0 m. Is the force attractive or repulsive?

Coulombs Law Static Electricity Worksheet Answers

Stewart C. Bushong



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the introduction of each major concept applications to different subject areas are described and further developed by problems with solutions provided The extensive list of references will be useful to both graduate students and researchers It should appeal to scientists and engineers from the areas of solid state physics materials science electrical engineering electrochemistry and biophysics

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Table of Contents Coulombs Law Static Electricity Worksheet Answers

1. Understanding the eBook Coulombs Law Static Electricity Worksheet Answers
 - The Rise of Digital Reading Coulombs Law Static Electricity Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Coulombs Law Static Electricity Worksheet Answers
 - 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 Coulombs Law Static Electricity Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Coulombs Law Static Electricity Worksheet Answers
 - Personalized Recommendations
 - Coulombs Law Static Electricity Worksheet Answers User Reviews and Ratings
 - Coulombs Law Static Electricity Worksheet Answers and Bestseller Lists
5. Accessing Coulombs Law Static Electricity Worksheet Answers Free and Paid eBooks
 - Coulombs Law Static Electricity Worksheet Answers Public Domain eBooks
 - Coulombs Law Static Electricity Worksheet Answers eBook Subscription Services
 - Coulombs Law Static Electricity Worksheet Answers Budget-Friendly Options
6. Navigating Coulombs Law Static Electricity Worksheet Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Coulombs Law Static Electricity Worksheet Answers Compatibility with Devices
 - Coulombs Law Static Electricity Worksheet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Coulombs Law Static Electricity Worksheet Answers
 - Highlighting and Note-Taking Coulombs Law Static Electricity Worksheet Answers
 - Interactive Elements Coulombs Law Static Electricity Worksheet Answers
 8. Staying Engaged with Coulombs Law Static Electricity Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Coulombs Law Static Electricity Worksheet Answers
 9. Balancing eBooks and Physical Books Coulombs Law Static Electricity Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Coulombs Law Static Electricity Worksheet Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Coulombs Law Static Electricity Worksheet Answers
 - Setting Reading Goals Coulombs Law Static Electricity Worksheet Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Coulombs Law Static Electricity Worksheet Answers
 - Fact-Checking eBook Content of Coulombs Law Static Electricity Worksheet Answers
 - 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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