



Ch 16: Electrostatics

- electric charges that are not moving
- Definition of new symbols
 - e^- = electron
 - p^+ = proton
 - n = neutron
 - e^+ = positron



Coulomb's Law

$$F = \frac{k Q_1 Q_2}{r^2}$$

- $k = 9.0 \times 10^9 \text{ N m}^2/\text{C}^2$
 - Coulomb's constant
- Q_1, Q_2 = charges
 - measured in Coulombs (C)
 - 1 C is a lot of charge!
- r = distance between Q_1 and Q_2



Electric Force

$$F = \frac{k Q_1 Q_2}{r^2}$$

- Similar form as gravitational force (weird, huh?), except
 - positive **and** negative charges
- Like charges repel; opposite charge attract



Figure 16-12



Figure 16-13



Charge Carriers

$$F = \frac{k Q_1 Q_2}{r^2}$$

- **The electron**
 - 1 e^- = $-1.602 \times 10^{-19} \text{ C}$
 - smallest unit of charge, also referred to as e
 - **negatively charged**
 - Charge of 1 e^- is $-1e$
- **The proton**
 - 1 p^+ = $1.602 \times 10^{-19} \text{ C}$
 - **positively charged**
 - Charge of 1 p^+ is $+1e$
- Charge is quantized!



Think-Pair-Share

- What is the electrostatic force between an e^- and a p^+ in a Hydrogen atom, given the radius of the H atom is $0.5 \times 10^{-10} \text{ m}$?



Coulomb's Law with different constants

$$F = \frac{1}{4\pi\epsilon_0} \frac{Q_1 Q_2}{r^2}$$

ϵ_0 = permittivity of free space

$$\epsilon_0 = \frac{1}{4\pi k} = 8.85 \times 10^{-12} \text{ C}^2/\text{N}\cdot\text{m}^2$$

(more relevant to future chapters)

Physics Ch 16 Electrostatics

Norman Robert Campbell

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Physics Ch 16 Electrostatics:

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 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Features to Look for in an Physics Ch 16 Electrostatics
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Ch 16 Electrostatics
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- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Physics Ch 16 Electrostatics
 - Carving Out Dedicated Reading Time
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 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

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- Interactive and Gamified eBooks

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