

Physics 1320: Study Guide Ch 21

Charges and Electric Forces

OBJECTIVES:

- a) To understand the nature of electric charges.
- b) To understand Coulomb's Law.

GLOSSARY:

Electric charge: May be positive or negative. Generally denoted by q for small charges and Q for large charges on macroscopic objects. Units of coulombs [C]. The fundamental charge element is $e = 1.602 \times 10^{-19}$ C. This is the magnitude of the charge of an electron ($-e$) and a proton ($+e$).

Point charge: A charge that exists at a point in space but has no size. It does have an electric charge and possibly a mass.

Continuous charge: An object (with some size) for which electric charge is spread out over the object.

Valence electrons: The electrons in the outer shell of an atom.

Conductor: An object whose valence electrons are free to move due to an electric force. Positive charges (protons) are in the nucleus of atoms and do not move.

Insulator: An object whose valence electrons are NOT free to move. All electrons in an insulator are bound to their atom.

Induction: Movement of charge due to bringing a charged object *near* another object.

Conduction: Movement of charge due to bringing a charged object *to touch* another object. When the charge redistributes between the two objects, the total charge stays the same.

COULOMB FORCE LAW:

The magnitude of the force between two charges:

$$F = k_e \frac{|q_1||q_2|}{r^2}$$
 where r is the distance between q_1 and q_2 . The force is attractive if the charges are opposite, repelling if the charges are the same.

$$k = \frac{1}{4\pi\epsilon_0} = 8.99 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2}$$

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Table of Contents Answers To Physics Ch 21 Study Guide

1. Understanding the eBook Answers To Physics Ch 21 Study Guide
 - The Rise of Digital Reading Answers To Physics Ch 21 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Physics Ch 21 Study Guide
 - 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 Answers To Physics Ch 21 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers To Physics Ch 21 Study Guide
 - Personalized Recommendations
 - Answers To Physics Ch 21 Study Guide User Reviews and Ratings
 - Answers To Physics Ch 21 Study Guide and Bestseller Lists
5. Accessing Answers To Physics Ch 21 Study Guide Free and Paid eBooks
 - Answers To Physics Ch 21 Study Guide Public Domain eBooks
 - Answers To Physics Ch 21 Study Guide eBook Subscription Services
 - Answers To Physics Ch 21 Study Guide Budget-Friendly Options
6. Navigating Answers To Physics Ch 21 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers To Physics Ch 21 Study Guide Compatibility with Devices
 - Answers To Physics Ch 21 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers To Physics Ch 21 Study Guide
 - Highlighting and Note-Taking Answers To Physics Ch 21 Study Guide
 - Interactive Elements Answers To Physics Ch 21 Study Guide
8. Staying Engaged with Answers To Physics Ch 21 Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Answers To Physics Ch 21 Study Guide
- 9. Balancing eBooks and Physical Books Answers To Physics Ch 21 Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers To Physics Ch 21 Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers To Physics Ch 21 Study Guide
 - Setting Reading Goals Answers To Physics Ch 21 Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers To Physics Ch 21 Study Guide
 - Fact-Checking eBook Content of Answers To Physics Ch 21 Study Guide
 - 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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