

1. Chapter 19

a. The Doppler Effect

- i. Wave phenomenon that can be used to determine how an object moves
- ii. Sound: shift in **pitch** as source of sound approaches or recedes
- iii. Light: shift in **color** as source approaches or recedes.
- iv. Source moves toward observer: frequency higher compared to rest frequency
 1. Blueshift
- v. Source moves away from observer: frequency lowers compared to rest frequency
 1. Redshift
- vi. Amount of shift depends **directly** on the speed
 1. Faster speed = greater shift
- vii. Direction of shift tells us if source is moving towards or away from us
 1. How fast it's moving from the amount of the shift
- viii. Doppler Effect only happens if motion is along the line of sight
 1. Observer can't detect Doppler Effect if perpendicular from us

b.

Gamma Rays	X-Ray	UV	VIBGYOR	IR	Radio
High frequency					low frequency
Short wavelength			← blue (brighter, louder) red (dimmer, softer) →		long wavelength

2. Chapter 22 (Electrostatics)

a. Properties of Electric Charges

- i. 2 types of charges exist
 1. positive and negative (opposites)
- ii. like charges repel and unlike charges attract one another
- iii. proton: basic carrier of positive charge ($1.6 \times 10^{-19} \text{ A}$)
 1. doesn't move from one material to another bc they are held firmly together in the nucleus
- iv. electron: basic carrier of negative charge ($-1.6 \times 10^{-19} \text{ A}$)
 1. gaining or losing electrons is how an object becomes charged
- v. electric charge is always conserved
 1. not created, only exchanged
 2. object becomes charged due to negative charge being transferred from one object to another
- vi. most objects tend to be neutral

b. Electric Forces

- i. Electrons in an atom
 1. Innermost: attracted strongly to oppositely charged nucleus
 2. Outermost: attracted loosely and can be easily dislodged
- ii. Coulomb's Law: the attractive or repulsive force between electric charges
 1. $F = kq_1q_2/d^2$
 2. q_1 and q_2 are the charges of 2 particles
 3. d is the distance between them
 4. k is constant
- iii. Force depends on the product of the charges and is inversely proportional to the square of the distance between them
- iv. Properties
 1. Electrical force inversely proportional to the square of the separation between the 2 objects
 2. Proportional to the product of the magnitudes of the charges q_1 and q_2
 3. Attractive if the charges are of opposite sign and repulsive if the charges have the same sign

c. Conductors, Semiconductors, Insulators

- i. Conductors
 1. Materials in which the electric charges move freely
 2. Copper, aluminum, and silver
 3. When a conductor is charged, the charge distributes over the entire surface of the material evenly
- ii. Semiconductors
 1. Characteristics are between those of insulators and conductors
 2. Silicon and germanium
- iii. Insulators
 1. Materials in which electrical charges do not move freely
 2. Glass and water

d. Electric Fields

- i. Electric Field Direction
 1. Direction of field defined to be the direction of the electric force that would be exerted on a small positive test charge placed at that point
 2. Electric field produced by negative charge is directed toward the charge
 3. Electric field produced by positive charge is directed away from the charge

High School Physics Final Exam Study Guide

Sabine Zange



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Table of Contents High School Physics Final Exam Study Guide

1. Understanding the eBook High School Physics Final Exam Study Guide
 - The Rise of Digital Reading High School Physics Final Exam Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying High School Physics Final Exam 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 High School Physics Final Exam Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from High School Physics Final Exam Study Guide
 - Personalized Recommendations
 - High School Physics Final Exam Study Guide User Reviews and Ratings
 - High School Physics Final Exam Study Guide and Bestseller Lists
5. Accessing High School Physics Final Exam Study Guide Free and Paid eBooks

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