

Physics Concepts Study Guide

Distance vs. Displacement

- Distance is the total length of travel
 - Measured in meters
- Displacement is the change in position with direction
 - Measured in meters
 - Displacement = final position - initial position
 - $\Delta X = X_f - X_i$



Speed and Velocity

- Average Speed is the total distance over time
 - o Measured in meters per second (m/s)
- Average Velocity is the displacement over total time
 - o Measured in meters per second (m/s)
 - o $V_{avg} = \Delta X / \Delta t = (X_f - X_i) / (t_f - t_i)$
- Instantaneous Velocity is the displacement over time
 - o The velocity at a certain instant of time
 - o Measured in meters per second (m/s)
- Note: When velocity is constant, the average velocity is equal to the instantaneous velocity at any time.

Acceleration

- Average acceleration is the rate of change of velocity with time
 - o Measured in m/s²
 - o $A_{avg} = \Delta V / \Delta t = (V_f - V_i) / (t_f - t_i)$
- Instantaneous Acceleration is the velocity per time
 - o The acceleration at a certain instant of time
 - o Measured in m/s²
- Does not depend on mass

Variations of equations:

$$V_{avg} = \frac{1}{2} (V_i + V_f) \qquad V_f = V_i + at \text{ (when } t_i = 0)$$

$$\Delta X = V_i t + \frac{1}{2} at^2 \qquad X_f = X_i + V_i t + \frac{1}{2} at^2$$

$$V_f^2 = V_i^2 + 2a(X_f - X_i) \leftarrow \text{when don't have time}$$

* Note: When linear equations are vertical, accelerations will always be 9.81 m/s² DOWN

- When an object is thrown vertically upward then its speed on returning to its original starting point is the same as its initial speed.

Vectors

- Any quantity that refers to both a magnitude (number) and a direction
 - Displacement and Velocity are examples of vectors
- In projectile launch problems:



Conceptual Physics Study Guide 15

Jiyuan Zhang



Conceptual Physics Study Guide 15:

Resources in Education ,1998 **El-Hi Textbooks in Print** ,1984 **Light and Optics** Abdul Al-Azzawi,2018-10-03

Since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology As the reality of all optical systems quickly comes into focus it is more important than ever to have a thorough understanding of light and the optical components used to control it Comprising chapters drawn from the author s highly anticipated book Photonics Principles and Practices Light and Optics Principles and Practices offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics Using a consistent approach the author leads you step by step through each topic Each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you through experimental cases illuminated with numerous illustrations The book works systematically through light light and shadow thermal radiation light production light intensity light and color the laws of light plane mirrors spherical mirrors lenses prisms beamsplitters light passing through optical components optical instruments for viewing applications polarization of light optical materials and laboratory safety Containing several topics presented for the first time in book form Light and

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Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt s text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics *Energy Research Abstracts* ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories

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