

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/s^2
 - 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/s^2
- Does not depend on mass

Variations of equations:

$$V_{avg} = \frac{1}{2} (V_i + V_f)$$

$$V_f = V_i + at \text{ (when } t_i = 0)$$

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

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

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

* Note: When linear equations are vertical, accelerations will always be 9.81 m/s^2 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 Answers

John R. Gordon, Raymond A. Serway



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Basic Physics Karl F. Kuhn, Frank Noschese, 2020-08-18 Learn physics at your own pace without an instructor Basic Physics A Self Teaching Guide 3rd Edition is the most practical and reader friendly guide to understanding all basic physics concepts and terms The expert authors take a flexible and interactive approach to physics based on new research based methods about how people most effectively comprehend new material The book takes complex concepts and breaks them down into practical easy to digest terms Subject matter covered includes Newton s Laws Energy Electricity Magnetism Light Sound And more There are also sections explaining the math behind each concept for those who would like further explanation and understanding Each chapter features a list of objectives so that students know what they should be learning from each chapter test questions and exercises that inspire deeper learning about physics High school students college students and those re learning physics alike will greatly enhance their physics education with the help of this one of a kind guide The third edition of this book reflects and implements new research based methods regarding how people best learn new material As a result it contains a flexible and interactive approach to learning physics *Instructor's Manual to Accompany Conceptual Physics* Paul G. Hewitt, 1977 , Student Study Guide & Selected Solutions Manual David D. Reid, 2007 **Physics, , Student Study Guide** John D. Cutnell, Kenneth W. Johnson, 1997-09-04 Describes applications in medicine automobile features transportation home entertainment athletics household applications information processing detection devices camera technology and many more Contains numerous discussions and examples that focus on human physiology including muscle forces blood pressure the refraction of light by the eye and many others **Student Study Guide and Selected Solutions Manual, Volume 2** Bo Lou, 2006-05 **2008 Physics Education Research Conference** Charles Henderson, Mel Sabella, Leon Hsu, 2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education The conference theme was Physics Education Research with Diverse Student Populations Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level or the college level to share their experiences as instructors and researchers in these classes **Student Solutions Manual and Study Guide for Serway and Jewett's Physics for Scientists and Engineers, Sixth Edition** John R. Gordon, Ralph V. McGrew, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions *Study Guide and Student Solutions Manual* Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics The

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