

1. What is the distance between a 128 kg object and a 136 kg object if the gravitational force of attraction between them is  $6.582 \times 10^{-10}$  N?

$$6.582 \times 10^{-10} = \frac{G(128)(136)}{r^2}$$

$$r^2 = \frac{G(128)(136)}{6.582 \times 10^{-10}}$$

$$r^2 = 1764.07$$

$$r = 42 \text{ m}$$

2. The force of gravity between two objects is 1200 N when the objects are 60 m apart. Find the force of gravity between the objects when they are 480 m apart.

Inverse square law:

Objects further apart,  $F_g \downarrow$

$480 \div 60 = 8 \times$  further apart, so  $F_g$  is  $8^2 = 64 \times$  smaller

$$1200 \div 64 = 18.8 \text{ N}$$

3. Two students are on a skateboards and push away from each other. A 48 kg student accelerates away at  $2.6 \text{ m/s}^2$ . Find the acceleration of the other student if their mass is 32 kg. Action-reaction forces

$$F_{net} = ma$$

$$F_{net} = 48(2.6)$$

$$F_{net} = 124.8 \text{ N}$$

$F_{net}$  is the same  
for both students

$$F_{net} = ma$$

$$124.8 = 32a$$

$$a = 3.9 \text{ m/s}^2$$

4. A 42.0 N force is applied to a 6.00 kg block but it only accelerates at  $5.50 \text{ m/s}^2$ . Determine both the force and the coefficient of friction.



$$F_{net} = ma$$

$$42 - F_f = 6(5.5)$$

$$42 - F_f = 33$$

$$F_f = 9.0 \text{ N}$$

$$F_f = \mu F_N$$

$$9.0 = \mu(58.8)$$

$$\mu = 0.153$$

5. A go-cart, traveling at  $65 \text{ km/h}$ , skids to a stop. If the coefficient of friction between the tires and the asphalt is 0.59, how far does the go-cart skid?



no forwards force!

$$F_{net} = ma$$

$$F_f = ma$$

$$\mu F_N = ma$$

$$\mu mg = ma$$

$$\mu g = a$$

$$0.59(9.8) = a$$

$$a = 5.782$$

$$v_f^2 - v_i^2 = 2ad$$

$$v_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

$$v_f^2 - v_i^2 = 2ad$$

$$d = 28.2 \text{ m}$$

# Chapter 8 Section Review Holt Physics

**RJ Shavelson**



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*Physics* Holt Rinehart & Winston, 2000-12     **Holt Physics** Raymond A. Serway, 2002     Holt General Science William L. Ramsey, 1988     Applied Mechanics Reviews, 1967     Holt Science and Technology Holt, Rinehart and Winston Staff, 2001     **Books in Print Supplement**, 2002     Technical Book Review Index, 1923     *Capacitance Spectroscopy of Semiconductors* Jian V. Li, Giorgio Ferrari, 2018-07-06 Capacitance spectroscopy refers to techniques for characterizing the electrical properties of semiconductor materials junctions and interfaces all from the dependence of device capacitance on frequency time temperature and electric potential This book includes 15 chapters written by world recognized leading experts in the field academia national institutions and industry divided into four sections Physics Instrumentation Applications and Emerging Techniques The first section establishes the fundamental framework relating capacitance and its allied concepts of conductance admittance and impedance to the electrical and optical properties of semiconductors The second section reviews the electronic principles of capacitance measurements used by commercial products as well as custom apparatus The third section details the implementation in various scientific fields and industries such as photovoltaics and electronic and optoelectronic devices The last section presents the latest advances in capacitance based electrical characterization aimed at reaching nanometer scale resolution     *Electrons, Atoms, and Molecules in Inorganic Chemistry* Joseph J. Stephanos, Anthony W. Addison, 2017-06-01 *Electrons Atoms and Molecules in Inorganic Chemistry A Worked Examples Approach* builds from fundamental units into molecules to provide the reader with a full understanding of inorganic chemistry concepts through worked examples and full color illustrations The book uniquely discusses failures as well as research success stories Worked problems include a variety of types of chemical and physical data illustrating the interdependence of issues This text contains a bibliography providing access to important review articles and papers of relevance as well as summaries of leading articles and reviews at the end of each chapter so interested readers can readily consult the original literature Suitable as a professional reference for researchers in a variety of fields as well as course use and self study The book offers valuable information to fill an important gap in the field Incorporates questions and answers to assist readers in understanding a variety of problem types Includes detailed explanations and developed practical approaches for solving real chemical problems Includes a range of example levels from classic and simple for basic concepts to complex questions for more sophisticated topics Covers the full range of topics in inorganic chemistry electrons and wave particle duality electrons in atoms chemical binding molecular symmetry theories of bonding valence bond theory VSEPR theory orbital hybridization molecular orbital theory crystal field theory ligand field theory electronic spectroscopy vibrational and rotational spectroscopy     **The Saturday Review of Politics, Literature, Science and Art**, 1869     **The Saturday Review of Politics, Literature, Science, Art, and Finance**, 1869     **Saturday Review**, 1869     Chapter Resource 13 Theory/Evolution Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004     *Computational*

*Electrodynamics* Allen Taflove,1995 This work represents a university text and professional research reference on the finite difference time domain computational solution method for Maxwell s equations Sections cover numerical stability numerical dispersion and dispersive nonlinear and gain methods of FD TD and antenna analysis     Children's Books in Print R R Bowker Publishing,Bowker,1999-12     *An Introduction to Modern Optics* Ajoy K. Ghatak,1972     **The Homiletic Review** ,1916     **The Publishers Weekly** ,1906     *Educational Times* ,1921     **Who's who in America** ,1930

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