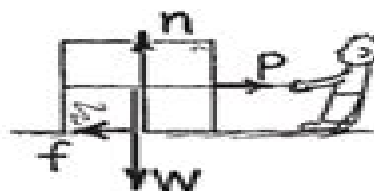


**Concept-Development  
Practice Page****6-1****Friction**

1. A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as shown by the vectors for weight  $W$  and normal force  $n$ .

- a. The net force on the crate is (zero) (greater than zero).  
b. Evidence for this is no acceleration.



2. A slight pull  $P$  is exerted on the crate, not enough to move it.

- a. The force of friction  $f$  acting on the crate is (less than) (equal to) (greater than)  $P$ .  
b. The net force on the crate is (zero) (greater than zero).



3. Pull  $P$  is increased until the crate begins to move. It is pulled so that it moves with constant velocity across the floor.

- a. Friction  $f$  is (less than) (equal to) (greater than)  $P$ .  
b. Constant velocity means acceleration is (zero) (greater than zero).  
c. The net force on the crate is (less than) (equal to) (greater than) zero.



4. Pull  $P$  is further increased and is now greater than friction  $f$ .

- a. The net force on the crate is (less than) (equal to) (greater than) zero.  
b. The net force acts toward the right, so acceleration acts toward the (left) (right).

5. If the pulling force  $P$  is 150 N and the crate doesn't move, what is the magnitude of  $f$ ? 150 N  
6. If the pulling force  $P$  is 200 N and the crate doesn't move, what is the magnitude of  $f$ ? 200 N  
7. If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? 250 N  
8. If the mass of the crate is 50 kg and sliding friction is 250 N, what is the acceleration of the crate when the pulling force is 250 N? 0 m/s<sup>2</sup> 300 N? 1 m/s<sup>2</sup> 500 N? 5 m/s<sup>2</sup>

**CONCEPTUAL PHYSICS**

# Conceptual Physics Answers Ch 28

**Albert Lewis Ford**



## Conceptual Physics Answers Ch 28:

Physics for Global Scientists and Engineers, Volume 2 Raymond A. Serway, John W. Jewett, Wayne (California State Polytechnic University Rowlands, Pomona), Kate Wilson, Wayne Rowlands, Anna (University of Canberra Wilson, Australian National University), 2016-10-01 This second edition of Serway's Physics For Global Scientists and Engineers is a practical and engaging introduction for students of calculus based physics. Students love the Australian Asia Pacific and international case studies and worked examples, concise language and high quality artwork in two easy to carry volumes. NEW key topics in physics such as the Higgs boson engage students and keep them interested. NEW Maths icons highlight mathematical concepts in the text and direct students to the relevant information in the Maths Appendix. NEW Index of Symbols provides students with a quick reference for the symbols used throughout the book. This volume two includes Electricity and magnetism, Light and optics and Quantum physics. Volume one covers Mechanics: Mechanical properties of solids and fluids, Oscillations and mechanical waves and Thermodynamics.

**Instructor's Manual to Accompany Conceptual Physics**  
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**Physics, Volume Two: Chapters 18-32** John D. Cutnell, Kenneth W. Johnson, 2014-12-15. Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years. The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU. The Cutnell offering now includes enhanced features and functionality. The authors have been extensively involved in the creation and adaptation of valuable resources for the text. This edition includes chapters 18-32.

Physics with Modern Physics for Scientists and Engineers Richard Wolfson, Jay M. Pasachoff, 1999. Conceptual Physics, 1974. **The Nature and Growth of Modern Mathematics** Edna Ernestine Kramer, 1982. Now available in a one volume paperback, this book traces the development of the most important mathematical concepts, giving special attention to the lives and thoughts of such mathematical innovators as Pythagoras, Newton, Poincare and Godel. Beginning with a Sumerian short story ultimately linked to modern digital computers, the author clearly introduces concepts of binary operations, point set topology, the nature of post relativity geometries, optimization and decision processes, ergodic theorems, epsilon delta arithmetization, integral equations, the beautiful ideals of Dedekind and Emmy Noether, and the importance of purifying mathematics. Organizing her material in

a conceptual rather than a chronological manner she integrates the traditional with the modern enlivening her discussions with historical and biographical detail      **Nuclear Science Abstracts** ,1973      **Physics from the Ground Up** Herman Y. Carr,Richard T. Weidner,1979      **Essentials of Physics** John D. Cutnell,Kenneth W. Johnson,2006 No further information has been provided for this title      Student Study Guide and Selected Solutions Manual, Volume 2 Bo Lou,2006-05      Test Bank to Accompany Physics for Scientists and Engineers, Fifth Edition Edward Adelson,2000      **Physics** David Halliday,1978      Plasma Physics and Nuclear Fusion Research Richard D. Gill,1981      **American Journal of Physics** ,1992      **Study Guide in Physics: Electricity, magnetism, geometrical optics, and wave optics** Victor Namias,1974

**University Physics** Hugh D. Young,Roger A. Freedman,2000 This work aims to enable students to develop physical intuition and strong problem solving skills In addition it points out the conceptual and computational pitfalls that commonly plague beginner physics students      **Instructor's manual to accompany University physics** **Hugh D. Young** Albert Lewis Ford,1992      *Sears and Zemansky's University Physics* Hugh D. Young,T. R. Sandin,Albert Lewis Ford,2000 Questions exercises and problems after each chapter      **The Fundamentals of Imaging Physics and Radiobiology** Joseph Selman,2000

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