

**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/s² 300 N? 1 m/s² 500 N? 5 m/s²

CONCEPTUAL PHYSICS

Conceptual Physical Science Explorations Answers

Momentum

Iowa State University



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Conceptual Physical Science, Explorations Paul G. Hewitt, John Suchocki, Leslie A. Hewitt, 2003 Concepts before computation is what this Hewitt text is all about The text brings physics chemistry earth science and astronomy together in a manner that captivates students interest This is serious science in a very readable and student friendly format With an emphasis on qualitative analysis students get a gut feel for the science they re studying Students will learn to appreciate and differentiate among major scientific ideas rather than reduce them to algebraic problem solving This sets the foundation for more serious study of the life sciences in subsequent courses **American Journal of Physics** ,1995 Philosophy of Physics M. Bunge, 2012-12-06 This book deals with some of the current issues in the philosophy methodology and foundations of physics Some such problems are Do mathematical formalisms interpret themselves or is it necessary to adjoin them interpretation assumptions and if so how are these as sumptions to be framed What are physical theories about physical systems or laboratory operations or both or neither How are the basic concepts of a theory to be introduced by ref erence to measurements or by explicit definition or axiomatically What is the use ofaxiomatics in physics How are the various physical theories inter related like Chinese boxes or in more complex ways What is the role of analogy in the construction and in the inter pretation of physical theories In particular are classical analogues like those of particle and wave indispensable in quantum theories What is the role of the apparatus in quantum phenomena and what is the place of measurement theory in quantum mechanics How does a theory face experiment single handed or with the help of further theories These and several other questions of the kind are met with by the research physicist the physics teacher and the physics student in their everyday work If dodged they will recur And a wrong answer to them may obscure the understanding of what has been achieved and may even hamper further advancement Philosophy methodology and foundations like rose bushes are enjoyable when cultivated but become ugly and thorny when neglected *Cornell University Courses of Study* Cornell University, 2002 **Film & Video Finder** ,1997 *General Catalog* Iowa State University, 1995 **Resources in Education** ,1998 **Energy Research Abstracts** ,1985 **Physics Briefs** ,1994 *Atomic Physics* Dmitry Budker, Derek Kimball, David DeMille, 2008-07-24 Written as a collection of problems hints and solutions this book should provide help in learning about both fundamental and applied aspects of this vast field of knowledge where rapid and exciting developments are taking place *Explorations in Knowledge* ,1990 Courses and Programs Iowa State University, 1999 **Scientific and Technical Aerospace Reports** ,1992 *Undergraduate and Graduate Courses and Programs* Iowa State University, 2007 Choice ,2004 *Recording for the Blind & Dyslexic, ... Catalog of Books* ,1996 *University of Kentucky Catalogue* University of Kentucky, 1974 Dissertation Abstracts International ,1989 **Physical Review** ,1995-06 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics

6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics
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Adolphus Hailstork (composer), Anonymous (lyricist) ... I Will Lift Mine Eyes Unto the Hills (Psalm 121) ... Music Sample: CGB528 I Will Lift Mine Eyes Unto the Hills (Psalm 121) (Full Score). Description: This calm, meditative original composition directly ... I will lift up mine eyes - Sheet Music - John Rutter John Rutter. I will lift up mine eyes. Vocal score. Forces or Category: SATB & organ/orchestra. Orchestration: 2.2.2.2-2.0.0.0-timp(opt)-hp-str. I to the Hills Will Lift Mine Eyes (Psalm 121) I to the Hills Will Lift Mine Eyes (Psalm 121): from Tenebrae (III) (Full Score) - 8598A. \$17.00 ; I to the Hills Will Lift Mine Eyes (Psalm 121): from Tenebrae ... I Will Lift Up Mine Eyes Vocal Range: High ; Pitch Range: E4- F#5 ; Composer: Michael Head ; Text Source: Ps 121 ; Publisher: Carl Fischer ... John Tavener: I Will Lift Up Mine Eyes ... John Tavener: I Will Lift Up Mine Eyes Unto The Hills (Vocal Score). German Edition. John Tavener: I Will Lift Up Mine Eyes Unto The Hills (Vocal Score). I Will Lift My Eyes - Full Score and Parts Vocal Forces: SATB, Cantor, Solo, Assembly. Accompaniment: Keyboard. Guitar: Yes. Instrumental parts included: C Instrument, Flute I, Flute II, Oboe, ... I Will Lift up Mine Eyes - Marzo, Eduardo Jul 5, 2014 — Marzo, Eduardo - I Will Lift up Mine Eyes Psalm 121. Voice High and ... "For over 20 years we have provided legal access to free sheet music. I Will Lift Up Mine Eyes (Sowerby, Leo) [7 more...]For voice, mixed chorus, organ; Scores featuring the voice; Scores ... Note: I can only provide full works, not arrangements or individual movements.