Concept-Development Practice Page

6-1

Friction



- 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).



- 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).
 - The net force on the crate is (less than) (equal to) (greater than) zero.



- 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.
 - The net force acts toward the right, so acceleration acts toward the (left) (right).
- 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
- If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? <u>250 N</u>
- 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? ____5 m/s² ___ 500 N? ____5 m/s²

CONCEPTUAL PHYSICS

Conceptual Physics Answers

Puja Mehta

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Conceptual Physics ,2006 Next-time questions Addison-Wesley Publishing Company, Scott, Foresman and Company, 1999 MasteringPhysics - For Conceptual Physics Paul Robinson, 1998 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 Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 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 Practice Book for Conceptual Physics Fundamentals Paul Hewitt, 2007-08-09 This valuable study tool features answers to odd numbered Exercises and Problems from the text to help build confidence and understanding of the key concepts in the textbook **Teaching Tips** Marvin Druger, Eleanor Dantzler Siebert, Linda W. Crow, 2004 Like a spirited idea exchange among experienced professors Teaching Tips Innovations in Undergraduate Science Instruction brings you the best thinking about how to engage undergraduate science students Most of the ideas in the book are applicable across the sciences Handbook of Latent Semantic Analysis Thomas K. Landauer, Danielle S. McNamara, Simon Dennis, Walter Kintsch, 2007-02-15 The Handbook of Latent Semantic Analysis is the authoritative reference for the theory behind Latent Semantic Analysis LSA a burgeoning mathematical method used to analyze how words make meaning with the desired outcome to program machines to understand human commands via natural language rather than strict programming protocols The first book **Practice Book for Conceptual** Physics Paul G. Hewitt, 2021 This book is filled with computational exercise misconception busting questions analogies and straightforward practice questions and problems that help students tie it all together **Proceedings of the Twenty-Third** Annual Conference of the Cognitive Science Society Johanna D. Moore, Keith Stenning, 2001 Vol includes all papers and posters presented at 2001 Cog Sci Mtg summaries of symposia invited addresses Deals w issues of repres model g cog

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