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Concept-Development **Practice Page**

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



- 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.
 - Friction f is (less than) (legual 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.



- Pull P is further increased and is now greater than friction f.
 - 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).)
- If the pulling force P is 150 N and the crate doesn't move, what is the magnitude of R __
- If the pulling force P is 200 N and the crate doesn't move, what is the magnitude of R 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 Physics 16 1 Answers

RJ Alexander

Conceptual Physics 16 1 Answers:

Physics for Scientists and Engineers Paul A. Tipler, Gene Mosca, 2007-05 The Sixth Edition of Physics for Scientists and Engineers offers a completely integrated text and media solution that will help students learn most effectively and will enable professors to customize their classrooms so that they teach most efficiently The text includes a new strategic problem solving approach an integrated Math Tutorial and new tools to improve conceptual understanding To simplify the review and use of the text Physics for Scientists and Engineers is available in these versions Volume 1 Mechanics Oscillations and Waves Thermodynamics Chapters 1 20 R 1 4292 0132 0 Volume 2 Electricity and Magnetism Light Chapters 21 33 1 4292 0133 9 Volume 3 Elementary Modern Physics Chapters 34 41 1 4292 0134 7 Standard Version Chapters 1 33 R 1 4292 0124 X Extended Version Chapters 1 41 R 0 7167 8964 7 New Pattern NTA IEE Main Quick Guide in Physics with Numeric Answer Questions 3rd Edition Disha Experts, 2019-10-01 As NTA introduces Numeric Answer Questions in JEE Main Disha launches the Questions the 3rd latest updated edition of New Pattern NTA JEE Main Quick Guide in Physics with Numeric Answer Questions This study material is developed for quick revision and practice of the complete syllabus of the JEE Main Exam in a short span of 40 days The book can prove to the ideal material for class 12 students as they can utilise this book to revise their preparation immediately after the board exams The book contains 27 chapters of class 11 12 and each Chapter contains JEE Main 6 Years at a Glance i e JEE Main 2019 2014 with TOPIC WISE Analysis Detailed Concept Maps covers entire IEE Syllabus for speedy revision IMPORTANT CRITICAL Points of the Chapter for last minute revision TIPS to PROBLEM SOLVING to help students to solve Problems in shortest possible time Exercise 1 CONCEPT BUILDER A Collection of Important Topic wise MCQs to Build Your Concepts Exercise 2 CONCEPT APPLICATOR A Collection of Quality MCQs that helps sharpens your concept application ability Exercise 3 Numeric Answer Questions A Collection of Quality Numeric Answer Ouestions as per the new pattern of IEE Answer Keys Detailed Solutions of all the Exercises and Past years problems are provided at the end of the chapter **Scripting Computer-Supported Collaborative Learning Frank** Fischer, Ingo Kollar, Heinz Mandl, Jörg M. Haake, 2007-04-08 Research on Computer Supported Collaborative Learning CSCL is a multidisciplinary field located at the intersection of cognitive psychology computer science and education Yet the different epistemological and theoretical backgrounds of these disciplines often make fruitful exchange between them difficult CSCL urgently needs to develop and use boundary concepts that can bring these fields closer together to improve cumulative research and development of computer supported learning environments Scripting Computer Supported Collaborative Learning focuses on one term with the potential to become a real boundary concept in CSCL scripting Scripting Computer Supported Collaborative Learning which has collected advanced script approaches demonstrates the opportunities for using synergy to apply the script concept between perspectives and interdisciplinary CSCL approaches to scripting This volume represents the state of the art of research on scripting computer supported collaborative learning and provides a

starting point for the development of a common understanding of scripting in CSCL Research on collaboration scripts has an extraordinary potential for advancing the multidisciplinary endeavor of CSCL research and this book provides a rich basis for further exploring and realizing this potential As such it will be a valuable resource for research development and teaching

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