

Lab 4: Combining Forces

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Objective

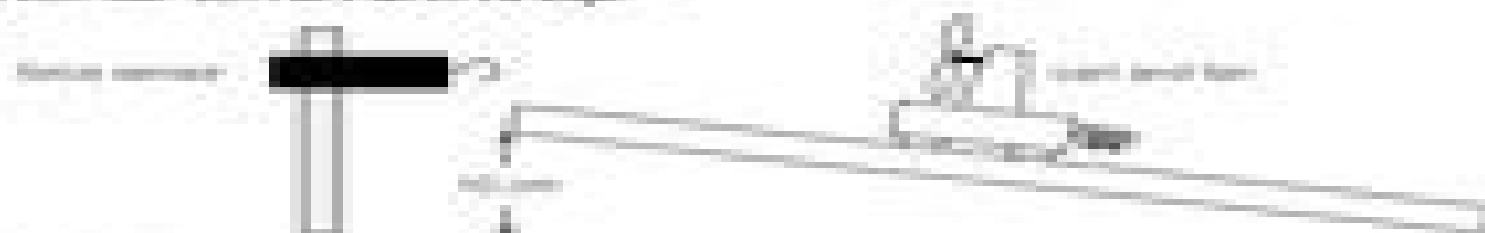
The purpose of this lab is to look at what happens when multiple forces act on an object and how they affect the motion of that object.

Equipment

Force sensor, cart and track with pulley, fan

Activity 1: One Force

Set up the track so that one end is about 10 cm above the other. Mount the force sensor using a force clamp. Mount the fan on top of the cart (check for four batteries that you will need). Release the cart from rest. (Don't let it fall off the edge.)



Questions

1. Released with the fan off, what is the direction of the acceleration? Sketch the acceleration vector in the following diagram. (The dot is the cart. The reference direction for is the direction down the ramp.)



2. Which direction is the fan force?



3. What force is the net force that acts on other things, what force goes into the sum for the net force? For this entire lab, assume that there is no friction.

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RealTime Physics: Active Learning Laboratories, Module 1 David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2011-11-15 The authors of RealTime Physics Active Learning Laboratories Module 1 Mechanics 3rd Edition David Sokoloff Priscilla Laws and Ron Thornton have been pioneers in the revolution of the physics industry In this edition they provide a set of labs that utilize modern lab technology to provide hands on information as well as an empirical look at several new key concepts They focus on the teaching learning issues in the lecture portion of the course as well as logistical lab issues such as space class size staffing and equipment maintenance Issues similar to those in the lecture have to with preparation and willingness to study *RealTime Physics* David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 1999 This computer based lab manual contains experiments in mechanics thermodynamics E M and optics using hardware and software designed to enhance readers understanding of calculus based physics concepts It uses an active learning cycle including concept overviews hypothesis testing prediction making and investigations Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction Publications United States. National Bureau of Standards, 1991 *Energy Research Abstracts* ,1991 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.), 1991 *Air Force Research Resumés* ,1963 **Louisiana Planter and Sugar Manufacturer** ,1924 *American School Board Journal* ,1902 *The American School Board Journal* William George Bruce, William Conrad Bruce, 1901 *Chemical News and Journal of Industrial Science* ,1870 Physics for College Students Ansel Alphonso Knowlton, 1928 **American Men of Science** ,1949 Brown's Directory of American Gas Companies. Gas Statistics ,1929 **Government Reports Announcements** ,1974-02-22 *B.A. mathematics. Questions and solutions from 1881 to 1886*, by W.B. and C.H.W.J. London univ, exam. papers, 1886 **Modern Sanitation and Building Maintenance** ,1957 **American Laboratory** ,2007 **General Catalogue Issue** Massachusetts Institute of Technology, 1971 Stanford Bulletin ,2003

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