

Lab Manual Activity Of Friction Solution



Lab Manual Activity Of Friction

Lab Manual: Appendix B (Logger Pro) Objective To measure and analyze the coefficients of friction μ_s and μ_k between a wood block and wood plane. Theory Friction is the force that resists the relative motion of one surface in contact with another surface. We consider two types of friction: static and kinetic.

Experiment 6: Coefficients of Friction

Experiment 5 ~ Friction Purpose: In this lab, you will make some basic measurements of friction. First you will measure the coefficients of static friction between several combinations of surfaces using a heavy block and a set of hanging masses.

Experiment 5 ~ Friction

There are two types of friction: kinetic and static. Kinetic friction is the friction between surfaces in relative motion. When sliding an object across another surface, microscopic bumps and defects tend to impede and resist the motion (even the smoothest surfaces are rough on the microscopic scale).

Experiment 6: Friction - IIT College of Science

Goals, Graphing, Use of the Computer, Lab Reports, Safety in the Physics Laboratory, Emergency Procedures The laboratory activities and experiments are listed here with the lab topic in italics and the purpose of each lab is stated under the title of the lab. 1 Making Hypotheses - Inquiry Method 1 To practice using observations to make hypotheses.

Laboratory Manual - Pearson School

Friction Lab Friction is a force that occurs when two surfaces TOUCH. In this lab you will investigate the factors that affect friction. You will measure frictional forces using a spring scale to measure the force. The factors being tested will include the effect of surface texture, weight and surface area contact on friction. In addition you will

Friction Lab - Vancouver Public Schools

The Force of Friction. □ We will be completing a formal lab report on the force of friction. □ You will record a rough draft of the investigation in your science notebook. □ Your final draft must be typed, double spaced, and have standard margins - due beginning of 2nd. quarter - exact date TBD. Sliding Friction.

The Force of Friction - Kyrene School District

In this lab, students compare the force necessary to move the same object over various surfaces. The relative friction produced by these surfaces can be determined and compared. Surfaces producing greater friction require more force to move the object while surfaces causing less friction require less.

Friction of Different Surfaces - Lab | Perkins eLearning

Activity 1: The Great Works of Friction Introduction: In this activity, you will use the force probe to examine the frictional forces present between a block and the aluminum track when the block is at rest and when it is sliding. Procedure: 1. Measure and record the mass of your block. $m = \underline{\hspace{2cm}}$ kilograms 2.

PHYSICS 211 LAB #3: Frictional Forces

□ Wear safety goggles for laboratory activities such as projectile motion, centripetal force, and other labs that involve rapid motion or acceleration of any kind. □ The goggles are provided by the department and each person in the lab must wear them. □ No open toed shoes are to be worn in the laboratory.

Physics 2511 Laboratory Manual - PVAMU Home

When friction is strong enough to prevent an object from moving, we call it static friction. In this

lab, you will measure the coefficients of friction between the block and a wooden board. To study how an incline affects motion, you will draw force diagrams that relate gravity, friction, and the normal force.

Static and Kinetic Friction - University of Notre Dame

IUPUI Physics Department 21800/P201 Laboratory Page 1 of 6 Static and Kinetic Friction Objectives

In this lab you will

- investigate how friction varies with the applied force.
- measure the coefficients of static and kinetic friction.
- learn how to use the Vernier Force Sensor.

Static and Kinetic Friction - Web Physics

34 Experiment 6: Coefficients of Friction Advance Reading Text: Newton's Laws, maximum static friction, kinetic friction, coefficients of friction. LabManual: AppendixB(LoggerPro) Objective To measure and analyze the coefficients of friction μ_s and μ_k between a wood block and wood plane. Theory Friction is the force that resists the ...

Experiment 6: Coefficients of Friction

Lab Activity Manual MATH 112-113: Math for Elementary Teachers Dr. Jonathan Duncan 2014-2015. Contents 1 Logic and Foundations 1 ... We start this activity by filling in the numbers for the first thirteen rows of Pascal's triangle. Begin and end each row with a one. Any other entries in the triangle should be filled in with the sum of the

Lab Activity Manual - Walla Walla University

speed motion is equal to the force of sliding friction on the wood block. These values of static friction force and sliding friction force can be obtained from the software program which accompanies the lab interface. Additional trials are performed for varying

Friction Lab - physicsclassroom.com

PHY 211: General Physics I Lab page 1 of 6 PCC-Cascade Experiment: Static and Kinetic Friction OBJECTIVES

- Use a Force Sensor to measure the force of static friction.
- Determine the relationship between force of static friction and the weight of an object.
- Measure the coefficients of static and kinetic friction for a particular block and track.

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