

Static and Kinetic Friction Lab Report

Introduction and Abstract:

If you slide one object over the surface of another object, there will be a force opposing that motion. This resistance force is called friction and this force is parallel to surfaces. Friction is one of two contact forces, the other being normal force. There are many types of frictional forces, but the two most common types are static friction and kinetic friction. Static friction exists between surfaces at rest and kinetic friction exists between sliding surfaces or surfaces in motion. One method of evaluating frictional forces, defining the coefficient of friction, is found by the ratio of frictional force over normal force. This report explores and analyzes these frictional forces within different materials. The objective of these experiments is to determine if the coefficient of friction changes with load, and compare the coefficient of friction for various materials. Our goal is to determine the relationship between loads and frictional forces, determine the effects of surface area, and compare the effects of different materials.

Procedures:

For part A of the experiment, we will find the coefficient of static friction by raising a wooden plank to determine the angle at which the object begins to slide. For glass, Ceramic / Stone, RubberAcrylic, Brass, Steel, Copper, Nylon, and PVC cubes, we will Measure the coefficient of static friction for the wood block on the wood plank and Calculate the normal force, the force of static friction, and the coefficient of static friction for the average maximum angle of repose. For part B of the experiment, we will find the coefficient of kinetic friction for the wood on wood interface by applying various loads and determining how much force is required to bring the system to a state of constant velocity. We will measure the kinetic friction force for six different loads on the block, calculate the normal force, the force of kinetic friction, and the coefficient of kinetic friction for each load. For part C we will do the same process as stated in part B, except the block will be on its narrow side to create data for a comparison of friction and surface area.

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**Holt Rinehart & Winston, Holt,
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Static And Kinetic Friction Lab Report:

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Selected Water Resources Abstracts ,1979-07 Technical Report Cold Regions Research and Engineering Laboratory (U.S.),1951 Holt Physics Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1998-03 **Keywords Index to U.S. Government Technical Reports (permuted Title Index)**. United States. Department of Commerce. Office of Technical Services,1962 **TID.** ,19?? Nuclear Science and Technology, a Selective Bibliography U.S. Atomic Energy Commission,1958 Physics Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006 **Physics Laboratory Manual** David H. Loyd,1989-11

This book delves into Static And Kinetic Friction Lab Report. Static And Kinetic Friction Lab Report is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Static And Kinetic Friction Lab Report, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Static And Kinetic Friction Lab Report
 - Chapter 2: Essential Elements of Static And Kinetic Friction Lab Report
 - Chapter 3: Static And Kinetic Friction Lab Report in Everyday Life
 - Chapter 4: Static And Kinetic Friction Lab Report in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Static And Kinetic Friction Lab Report. The first chapter will explore what Static And Kinetic Friction Lab Report is, why Static And Kinetic Friction Lab Report is vital, and how to effectively learn about Static And Kinetic Friction Lab Report.
3. In chapter 2, this book will delve into the foundational concepts of Static And Kinetic Friction Lab Report. This chapter will elucidate the essential principles that must be understood to grasp Static And Kinetic Friction Lab Report in its entirety.
4. In chapter 3, this book will examine the practical applications of Static And Kinetic Friction Lab Report in daily life. The third chapter will showcase real-world examples of how Static And Kinetic Friction Lab Report can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Static And Kinetic Friction Lab Report in specific contexts. The fourth chapter will explore how Static And Kinetic Friction Lab Report is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Static And Kinetic Friction Lab Report. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Static And Kinetic Friction Lab Report.

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