

# Static and Kinetic Friction

If you try to slide a heavy box resting on the floor, you may find it difficult to get the box moving. *Static friction* is the force that counters your force on the box. If you apply a light horizontal push that does not move the box, the static friction force is also small and directly opposite to your push. If you push harder, the friction force increases to match the magnitude of your push. There is a limit to the magnitude of static friction, so eventually you may be able to apply a force larger than the maximum static force, and the box will move. The maximum static friction force is sometimes referred to as *starting friction*. We model static friction,  $F_{\text{static}}$ , with the inequality  $F_{\text{static}} \leq \mu_s N$  where  $\mu_s$  is the coefficient of static friction and  $N$  is the *normal* force exerted by a surface on the object. The normal force is defined as the perpendicular component of the force exerted by the surface. In this case, the normal force is equal to the weight of the object.

Once the box starts to slide, you must continue to exert a force to keep the object moving, or friction will slow it to a stop. The friction acting on the box while it is moving is called *kinetic friction*. In order to slide the box with a constant velocity, a force equivalent to the force of kinetic friction must be applied. Kinetic friction is sometimes referred to as *sliding friction*. Both static and kinetic friction depend on the surfaces of the box and the floor, and on how hard the box and floor are pressed together. We model kinetic friction with  $F_{\text{kinetic}} = \mu_k N$ , where  $\mu_k$  is the coefficient of kinetic friction.

In this experiment, you will use a force sensor to study static friction and kinetic friction on a wooden block. A motion detector will also be used to analyze the kinetic friction acting on a sliding block.



Figure 1

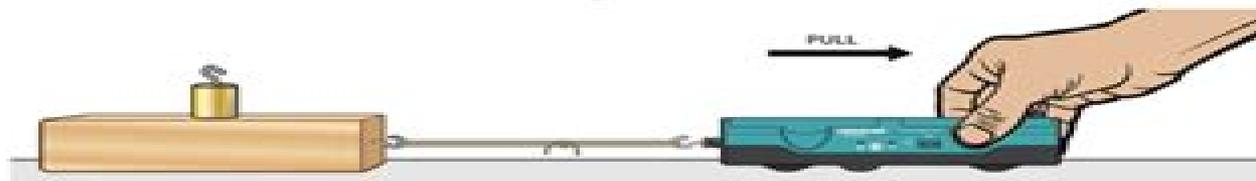


Figure 2

## OBJECTIVES

- Use a force sensor to measure the force of static and kinetic friction.
- Determine the relationship between force of static friction and the weight of an object.

# 12 Static Friction Vernier

**Xiaolong Qi**



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*Mechanics and Chemistry in Lubrication* A. Dorinson, K.C. Ludema, 1985-08-01 Although it is widely recognized that friction wear and lubrication are linked together in a single interdisciplinary complex of scientific learning and technological practice fragmented and specialized approaches still predominate In this book the authors examine lubrication from an interdisciplinary viewpoint They demonstrate that once the treatment of lubrication is released from the confines of the fluid film concept this interdisciplinary approach comes into full play Tribological behavior in relation to lubrication is then examined from two major points of view one is mechanical not only with respect to the properties and behavior of the lubricant but also of the surfaces being lubricated The other is chemical and encompasses the chemistry of the lubricant the surfaces and the ambient surroundings It is in the emphasis on the interaction of the basic mechanical and chemical processes in lubrication that this book differs from conventional treatments

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### **Table of Contents 12 Static Friction Vernier**

1. Understanding the eBook 12 Static Friction Vernier
  - The Rise of Digital Reading 12 Static Friction Vernier
  - Advantages of eBooks Over Traditional Books
2. Identifying 12 Static Friction Vernier
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 12 Static Friction Vernier
  - User-Friendly Interface
4. Exploring eBook Recommendations from 12 Static Friction Vernier
  - Personalized Recommendations
  - 12 Static Friction Vernier User Reviews and Ratings

- 12 Static Friction Vernier and Bestseller Lists
- 5. Accessing 12 Static Friction Vernier Free and Paid eBooks
  - 12 Static Friction Vernier Public Domain eBooks
  - 12 Static Friction Vernier eBook Subscription Services
  - 12 Static Friction Vernier Budget-Friendly Options
- 6. Navigating 12 Static Friction Vernier eBook Formats
  - ePub, PDF, MOBI, and More
  - 12 Static Friction Vernier Compatibility with Devices
  - 12 Static Friction Vernier Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 12 Static Friction Vernier
  - Highlighting and Note-Taking 12 Static Friction Vernier
  - Interactive Elements 12 Static Friction Vernier
- 8. Staying Engaged with 12 Static Friction Vernier
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 12 Static Friction Vernier
- 9. Balancing eBooks and Physical Books 12 Static Friction Vernier
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 12 Static Friction Vernier
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 12 Static Friction Vernier
  - Setting Reading Goals 12 Static Friction Vernier
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 12 Static Friction Vernier
  - Fact-Checking eBook Content of 12 Static Friction Vernier
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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