

Friction is a force that impedes motion by its resistive nature. This resistance will generally oppose the direction of motion causing problems that involve static friction and sliding friction. Most friction is the result of roughness on surfaces that are not moving. Sliding friction is the result of surface resistance.

I. Calculating Friction

In the following figure, a force F is applied to an object. This force is applied to the distance $F \cdot d$, which gives:

Let's say the normal force, F_N , is equal to the force pushing the object down, together:

Let's do the equation for sliding friction:

Equation:

$$\text{Friction Force (N)} = \mu \cdot F_N$$

Coefficient of Friction Normal Force (N)

In this equation:

- 1) F_N is force of normal.
- 2) μ is coefficient of friction.
- 3) F_f is friction force being generated together.

Example: A car is sliding along on a surface at angle 30 degrees. The coefficient of friction is 0.1. How much friction resistance does the block sliding?

$$F_f = \mu \cdot F_N$$

$$F_f = 0.1 \cdot 100 \text{ N}$$

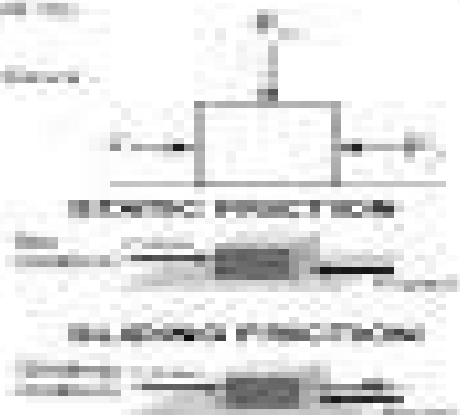
$$F_f = 10 \text{ N}$$

In this example, F must be greater than 10 N.

II. Static Friction

Static friction prevents and stops your motion in the following way: "When there is no motion of force is needed." This is the static state of motion.

- 1) A force is applied to the object but the object is not moving. The object is not moving. The force is not enough to move the object. The force is not enough to move the object.



Skill Sheet 6 2 Physics Friction Answers

Lauren K. Lee, Linda L. Homa

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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Strategies for Developing Higher-Order Thinking Skills, Grades 6-12 Wendy Conklin, 2012-04-01 A professional strategies notebook developed for grades 6 12 provides teachers with strategies to build every student s mastery of high level thinking skills and includes model lessons featuring questioning decision making creative thinking problem solving and idea generating

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Bulletin University of Illinois (Urbana-Champaign campus). College of Education, 1917

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