

CHAPTER 5: FURTHER APPLICATION OF NEWTON'S LAWS: FRICTION, DRAG, AND ELASTICITY

5.1 FRICTION

1. *A physics major is cooking breakfast when he notices that the frictional force between his steel spatula and his Teflon frying pan is only 0.200 N. Knowing the coefficient of kinetic friction between the two materials, he quickly calculates the normal force. What is it?*

Solution $f = \mu_k N \Rightarrow N = \frac{f}{\mu_k} = \frac{0.200 \text{ N}}{0.04} = \underline{5.00 \text{ N}}$

5. *(a) If half of the weight of a small $1.00 \times 10^3 \text{ kg}$ utility truck is supported by its two drive wheels, what is the maximum acceleration it can achieve on dry concrete? (b) Will a metal cabinet lying on the wooden bed of the truck slip if it accelerates at this rate? (c) Solve both problems assuming the truck has four-wheel drive.*

Solution (a) $f_{\text{max}} = \mu_s N = \mu_s \left(\frac{1}{2} mg \right) = ma$

$$a = \frac{1}{2} \mu_s g = 0.5 (1.0) (9.80 \text{ m/s}^2) = \underline{4.90 \text{ m/s}^2}$$

(b) $f_{\text{max}} = \mu_s mg = \text{maximum frictional force.}$

The cabinet will slip if $ma > \mu_s mg$, i.e., if $a > \mu_s g$

$$\mu_s g = 0.5 (9.80 \text{ m/s}^2) = 4.90 \text{ m/s}^2 = a$$

The cabinet will not slip.

(c) $f_{\text{max}} = \mu_s N = \mu_s mg = ma$

$$\therefore a = \mu_s g = 1.0 (9.80 \text{ m/s}^2) = 9.80 \text{ m/s}^2$$

The cabinet will slip, since $a = 9.80 \text{ m/s}^2 > \mu_s g$ where $\mu_s g = 4.90 \text{ m/s}^2$.

10. *Calculate the deceleration of a snow boarder going up a 5.0° slope assuming the coefficient of friction for waxed wood on wet snow. The result of *Exercise 5.9* may be useful, but be careful to consider the fact that the snow boarder is going uphill. Explicitly show how you follow the steps in *Problem-Solving Strategies*.*

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