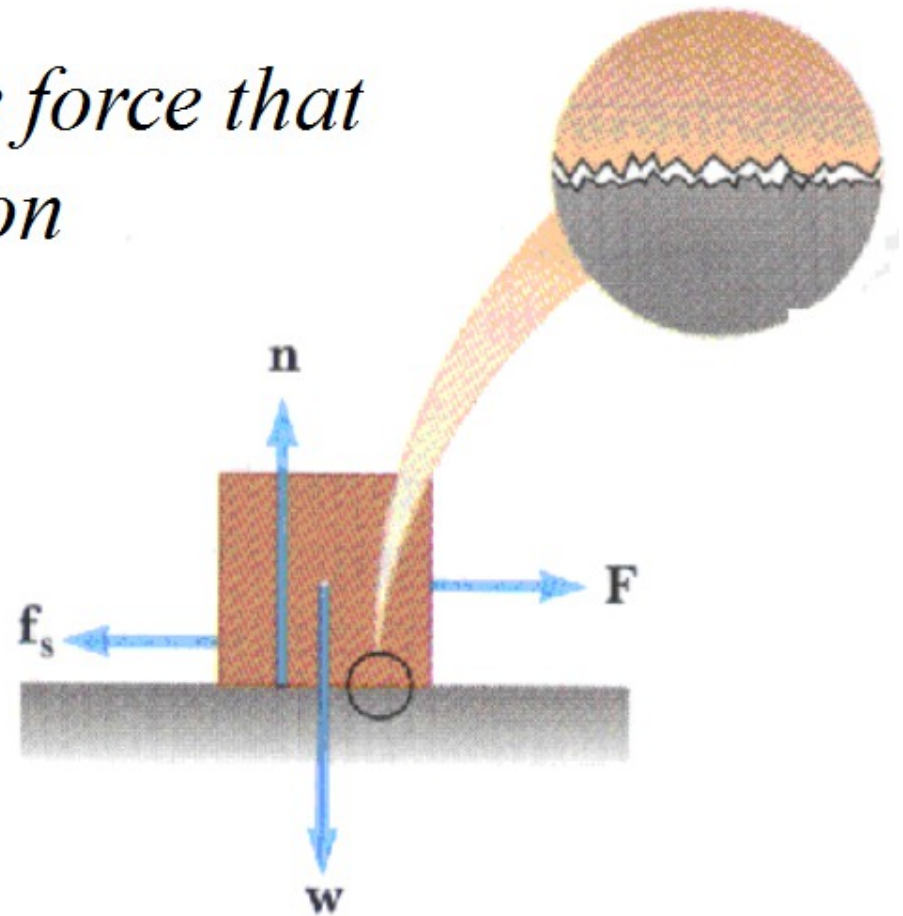


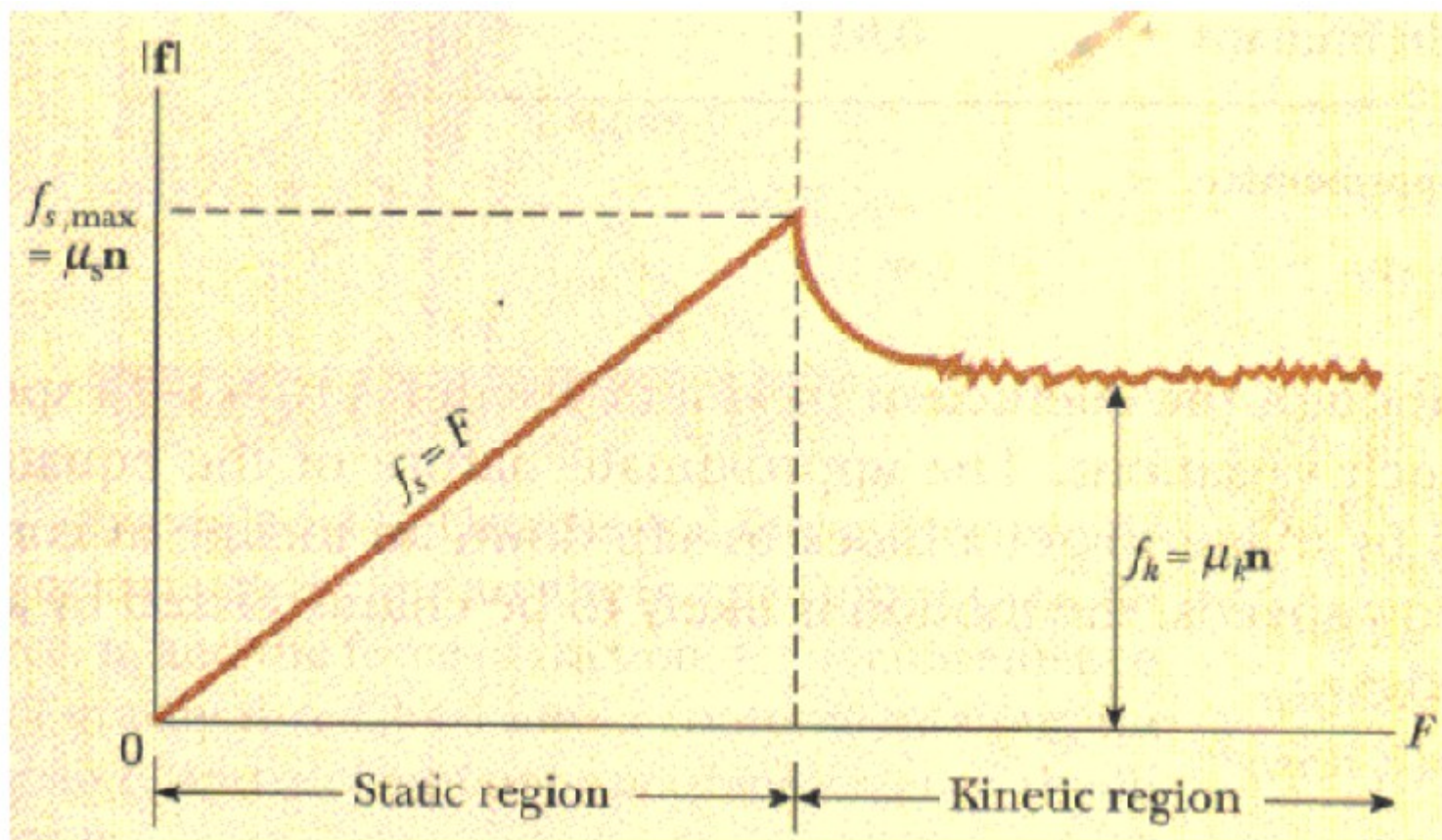
Friction

What is friction?

Friction is the force that opposes motion

Things aren't as smooth
as we think they are!





Two Types of Friction

Static Friction & **Kinetic Friction**

F_s

F_k

Coefficient of Friction

The ratio of frictional force to Normal force is called μ (μ), the coefficient of friction.

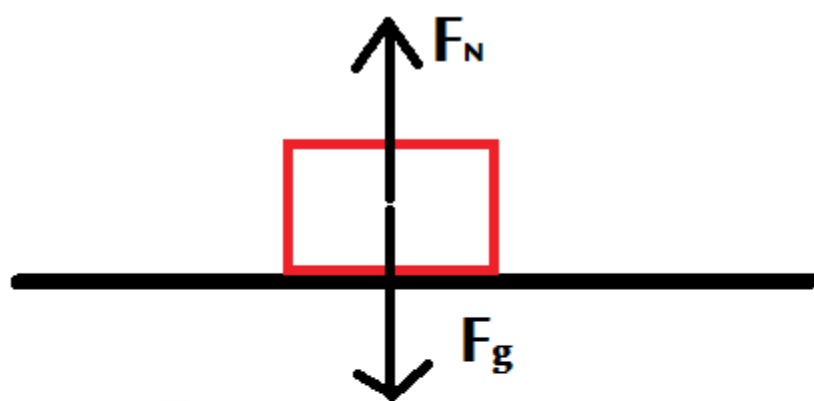
It represents how smooth a surface is when in contact with another surface.

$$F_f = \mu F_N$$

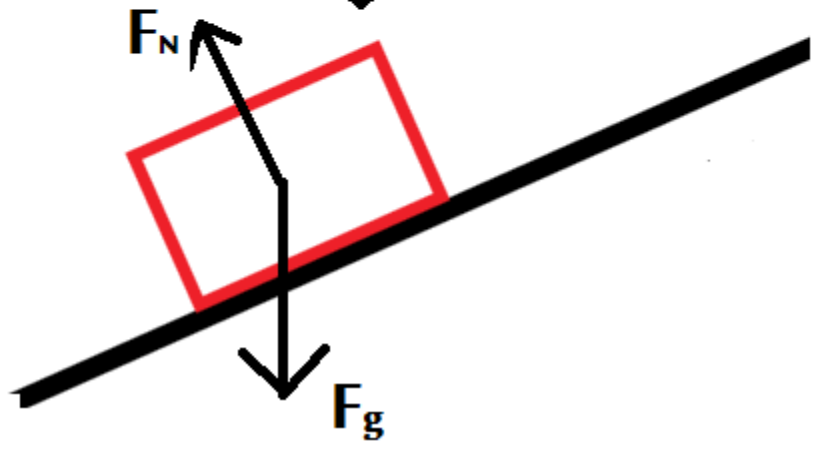
Coefficient of Friction

$$F_f = \mu F_N$$

$$F_s = \mu_s F_N \quad \text{OR} \quad F_k = \mu_k F_N$$



$$F_N = F_g$$



$$F_N = F_g \sin \theta$$

