Friction

Friction is the force that opposes one object sliding over another. Various factors effect the friction between two surfaces including:

- the type of materials in contact
- the amount of pressure being applied that forces them together
- the texture of the surfaces in contact
- the area of the surfaces in contact
- whether lubricated or dry.

Coefficient of Friction

The amount of resistance to sliding of one object over another is called the coefficient of friction. A high resistance to sliding results in a high coefficient of friction.

Friction force may be expressed as:

 $Ff = \mu N$

where

Ff = friction force (N, Ib)

 μ = static (μ s) or kinetic (μ k) frictional coefficient.

N = normal force