

Friction



the nature of the two surfaces in contact

their state of roughness.

★ The kinetic friction is independent of the relative velocities of the surfaces.

★ The frictional force opposes the relative motion of two surfaces.

★ The frictional force is parallel to the surfaces in contact.

★ The frictional force is directly proportional to the normal reaction.

★ The frictional force is independent of the area of contact.

Laws

Types

Static Friction

Kinetic Friction

Sliding Friction

Rolling Friction

Origin

when two objects are kept in contact

irregular surfaces

there forms an interlock between

to break the interlock

Extra force