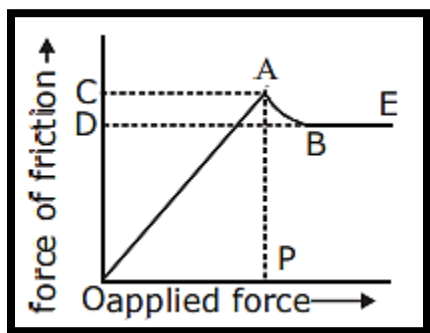


Friction

Effect of Applied Force on Frictional Forces

❖ Variation of frictional force with applied forces:

(i) The part OA of the graph shows that the static friction increases with the increase in applied force.



(ii) The force of friction is maximum at a pt A which is equal to AP.

(iii) If the applied force is increased further, the body will continue to be in motion but the force of friction is slightly lesser.

(iv) After this the force of friction remains constant.

Note : Rolling friction is smaller than sliding friction which in turn is smaller than the limiting friction.