

Inertia.

- (1) Inherent property of all the bodies by virtue of which they cannot change their state of rest or uniform motion along a straight line by their own is called inertia.
- (2) Inertia is not a physical quantity, it is only a property of the body which depends on mass of the body.
- (3) Inertia has no units and no dimensions
- (4) Two bodies of equal mass, one in motion and another is at rest, possess same inertia because it is a factor of mass only and does not depend upon the velocity.\