



## Moment of Inertia

- ANGULAR FORM OF INERTIA (I)
  - resistance to changes in the state of angular motion
- $I = mr^2$ 
  - for a single particle
  - proportional to mass and distance squared
- SI unit =  $kg \cdot m^2$























## Angular Analog Newton's Laws

3) for every torque that is exerted by one body on another there is an equal and opposite torque exerted by the second body on the first











