

\* Centre of Mass:  $\vec{r} = \frac{\sum m_i \vec{r}_i}{\sum m_i}$  Position of cm is independent of coordinate system.

The position of cm changes the position only under the translatory motion. No effect of rotatory motion. If origin is at centre of mass, then  $\sum m_i \vec{r}_i = 0$ .

$$\vec{v}_{cm} = \frac{\sum m_i \vec{v}_i}{\sum m_i} \quad ; \quad \vec{a}_{cm} = \frac{\sum m_i \vec{a}_i}{\sum m_i}$$

$$\vec{F} = M \vec{a}_{cm} = M \frac{d^2 \vec{r}_{cm}}{dt^2}$$

If external force = zero, then  $M \frac{d\vec{v}_{cm}}{dt} = 0 \Rightarrow \vec{v}_{cm} = \text{constant}$

\* Angular Displacement:  $\vec{\theta} = \frac{\vec{r} \times \vec{v}}{r^2}$  [unit - radian].  
 $\vec{s} = \vec{\theta} \times \vec{r}$

Dimension  $[M^0 L^0 T^0]$

Angular velocity:  $\vec{\omega} = \frac{d\vec{\theta}}{dt}$  ;  $\omega_{av} = \frac{\Delta\theta}{\Delta t}$

T  $\rightarrow$  Time period

f  $\rightarrow$  frequency.

(radian/sec).  $[M^0 L^0 T^{-1}]$

$$\vec{v} = \vec{\omega} \times \vec{r} \quad | \quad \omega = \frac{2\pi}{T} = 2\pi f$$

Angular acceleration:

$$\vec{\alpha} = \frac{d\vec{\omega}}{dt} = \frac{d^2 \vec{\theta}}{dt^2} \quad [\text{rad/sec}^2]$$

$$\vec{\alpha} \times \vec{r} = \vec{a}$$

$$\alpha_{av} = \frac{\Delta\omega}{\Delta t} \quad [M^0 L^0 T^{-2}]$$

\* Eqn's: (when  $\alpha = \text{const}$ )

i)  $\theta = \frac{\omega_1 + \omega_2}{2} t$

ii)  $\alpha = \frac{\omega_2 - \omega_1}{t}$

iii)  $\omega_2 = \omega_1 + \alpha t$

iv)  $\theta = \omega_1 t + \frac{1}{2} \alpha t^2$

v)  $\omega_2^2 = \omega_1^2 + 2\alpha\theta$

vi)  $\theta_{nth} = \omega_1 + (2n-1) \frac{\alpha}{2}$

vii)  $\omega d\omega = \alpha d\theta$  (when  $\alpha$  not constant)

(analogy to linear motion)

# Iit Jee Notes

**Padhraic Smyth**



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