

* 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 $\sum m_i \vec{r}_i = 0$.

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

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

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

* Angular Displacement: $\vec{\theta} = \frac{\vec{r} \times \vec{p}}{r^2}$ [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 → Time period

f → 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: $\vec{\alpha} = \frac{d\vec{\omega}}{dt} = \frac{d^2 \vec{\theta}}{dt^2}$ [rad/sec²]

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

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

* 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 α not constant)

(analogy to linear motion)

Iit Jee Notes

L Darling-Hammond



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Table of Contents Iit Jee Notes

1. Understanding the eBook Iit Jee Notes
 - The Rise of Digital Reading Iit Jee Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Iit Jee Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Iit Jee Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Iit Jee Notes
 - Personalized Recommendations
 - Iit Jee Notes User Reviews and Ratings
 - Iit Jee Notes and Bestseller Lists
5. Accessing Iit Jee Notes Free and Paid eBooks
 - Iit Jee Notes Public Domain eBooks

- Iit Jee Notes eBook Subscription Services
- Iit Jee Notes Budget-Friendly Options
- 6. Navigating Iit Jee Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Iit Jee Notes Compatibility with Devices
 - Iit Jee Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Iit Jee Notes
 - Highlighting and Note-Taking Iit Jee Notes
 - Interactive Elements Iit Jee Notes
- 8. Staying Engaged with Iit Jee Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Iit Jee Notes
- 9. Balancing eBooks and Physical Books Iit Jee Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Iit Jee Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Iit Jee Notes
 - Setting Reading Goals Iit Jee Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iit Jee Notes
 - Fact-Checking eBook Content of Iit Jee Notes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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