

### Centre of Mass (CM)

CM shall be understood with the help of following points

(i) A system consists of many particles with different masses and different position from the reference point.

(ii) The mass of the system is equal to the sum of the mass of each particle in the system.

If the mass of the entire particles of the system is connected at a particular point, then that point is called the Centre of mass of the system.

### CM in a One Dimensional System

Let us consider a fulcrum placed along the x-axis which is not at equilibrium position.



Let  $m_1, m_2, m_3, \dots, m_n$  be mass of particles

$x_1, x_2, x_3, \dots, x_n$  position of particles from the supporting point

The tendency of a mass to rotate with respect to supporting point is called moment of mass

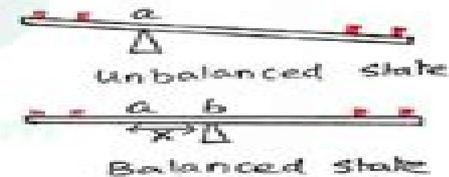
The moment of mass for an element mass  $m_n$  with respect to the fulcrum can be written as  $m_n x_n$ .

For the equilibrium system, the total moments is given by

$$m_1 x_1 + m_2 x_2 + \dots + m_n x_n = \sum_{i=1}^n m_i x_i = 0 \quad \text{--- (1)}$$

If the total moment is equal to zero, the CM will lie at the supporting point.

But from the figure, the system is not equilibrium, therefore the supporting point is adjusted to a distance 'x' to get balanced system.



Under equilibrium

$$\text{Eqn (1)} \Rightarrow \sum_{i=1}^n m_i x_i - \sum_{i=1}^n m_i x = 0$$

$$\sum_{i=1}^n m_i x = \sum_{i=1}^n m_i x_i$$

$$x = \frac{\sum_{i=1}^n m_i x_i}{\sum_{i=1}^n m_i}$$

$$(ii) x = \frac{m_1 x_1 + m_2 x_2 + \dots + m_n x_n}{m_1 + m_2 + m_3 + \dots + m_n}$$

The system should be moved to a distance of x in order to attain the balanced position.

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## **Table of Contents Engineering Physics Sem Notes**

1. Understanding the eBook Engineering Physics Sem Notes
  - The Rise of Digital Reading Engineering Physics Sem Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Physics Sem 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 Engineering Physics Sem Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Physics Sem Notes
  - Personalized Recommendations

- Engineering Physics Sem Notes User Reviews and Ratings
- Engineering Physics Sem Notes and Bestseller Lists
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  - Engineering Physics Sem Notes eBook Subscription Services
  - Engineering Physics Sem Notes Budget-Friendly Options
- 6. Navigating Engineering Physics Sem Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Physics Sem Notes Compatibility with Devices
  - Engineering Physics Sem Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Physics Sem Notes
  - Highlighting and Note-Taking Engineering Physics Sem Notes
  - Interactive Elements Engineering Physics Sem Notes
- 8. Staying Engaged with Engineering Physics Sem Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Physics Sem Notes
- 9. Balancing eBooks and Physical Books Engineering Physics Sem Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Physics Sem Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Physics Sem Notes
  - Setting Reading Goals Engineering Physics Sem Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Physics Sem Notes
  - Fact-Checking eBook Content of Engineering Physics Sem 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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