

### 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

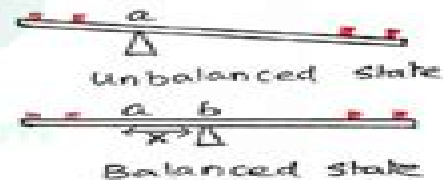
The moment of mass for an element mass  $m_n$  with respect to the fulcrum can be written as  $m_n x_n$ .

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.

# Engineering Physics 1 St Semester Notes

**Patrick Vollmar**



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## **Table of Contents Engineering Physics 1 St Semester Notes**

1. Understanding the eBook Engineering Physics 1 St Semester Notes
  - The Rise of Digital Reading Engineering Physics 1 St Semester Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Physics 1 St Semester 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 1 St Semester Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Physics 1 St Semester Notes
  - Personalized Recommendations
  - Engineering Physics 1 St Semester Notes User Reviews and Ratings
  - Engineering Physics 1 St Semester Notes and Bestseller Lists
5. Accessing Engineering Physics 1 St Semester Notes Free and Paid eBooks
  - Engineering Physics 1 St Semester Notes Public Domain eBooks
  - Engineering Physics 1 St Semester Notes eBook Subscription Services
  - Engineering Physics 1 St Semester Notes Budget-Friendly Options
6. Navigating Engineering Physics 1 St Semester Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Physics 1 St Semester Notes Compatibility with Devices
  - Engineering Physics 1 St Semester Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Physics 1 St Semester Notes
  - Highlighting and Note-Taking Engineering Physics 1 St Semester Notes
  - Interactive Elements Engineering Physics 1 St Semester Notes

8. Staying Engaged with Engineering Physics 1 St Semester Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Physics 1 St Semester Notes
9. Balancing eBooks and Physical Books Engineering Physics 1 St Semester Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Physics 1 St Semester Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Physics 1 St Semester Notes
  - Setting Reading Goals Engineering Physics 1 St Semester Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Physics 1 St Semester Notes
  - Fact-Checking eBook Content of Engineering Physics 1 St Semester 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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