

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

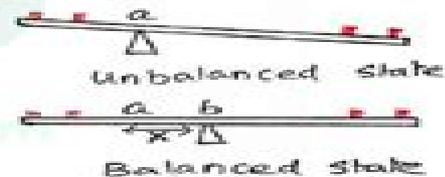
The moment of mass for an element mass m_n with respect to the fulcrum can be written as $m_n x_n$.

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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Yan Bai



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Lecture Notes in Engineering Physics Robert N. Varney, 1954 *Notes, Solved Problems and Examinations in Physics for Students of Mathematics, Engineering, and Other Sciences* Julius J. Jelinek, Edwin B. Weinberg, 1948 Lecture Notes Howard Hathaway Aiken, Harvard University. Cruft Memorial Laboratory, 1939* Lecture Notes in Physics, 1976 **Lecture Notes in Physics 23, Engineering 223** George Washington Pierce, 1936 This volume consists of a mimeographed non-commercial publication containing notes on lectures delivered by George Washington Pierce in a course given at Harvard ca 1936 **Engineering Physics Part - I, 1/e** Selladurai, **Physics notes series**, *Physics Notes* Philip W. Anderson (Physicist, United States), 1995 **Preliminary Physics Notes**, 2017-09 **Physics Notes** Craig Tilley, James Griffiths, 2002 Comprehensive summary notes Practice exam questions Examinations advice Solutions *Senior Physics Notes*, 1900 **XII Physics Notes** Abhimanyu Thakur, 2022-04 New Simplified Physics Notes A Reference Book for Class 12 TERM I TERM II According to the latest examination pattern also include previous years question papers Notes and Questions in Physics Shearer John S, 2012-08 Unlike some other reproductions of classic texts 1 We have not used OCR Optical Character Recognition as this leads to bad quality books with introduced typos 2 In books where there are images such as portraits maps sketches etc We have endeavoured to keep the quality of these images so they represent accurately the original artefact Although occasionally there may be certain imperfections with these old texts we feel they deserve to be made available for future generations to enjoy Notes in General Physics University of Colorado, **Physics I Notes** University of Queensland. Department of Physics, 19?? Physics Notes, 2005-01-01 **Senior Physics Notes** Robert Arthur Squire, 1955 **Notes and Questions in Physics** John S. Shearer, 1905 Notes and Problems in Applied Physics, with Worked Examples Michael Sayer, 1970-01-01

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Table of Contents Physics Notes For Engineering Csvtu

1. Understanding the eBook Physics Notes For Engineering Csvtu
 - The Rise of Digital Reading Physics Notes For Engineering Csvtu
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Notes For Engineering Csvtu
 - 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Notes For Engineering Csvtu
 - Personalized Recommendations
 - Physics Notes For Engineering Csvtu User Reviews and Ratings
 - Physics Notes For Engineering Csvtu and Bestseller Lists

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