

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

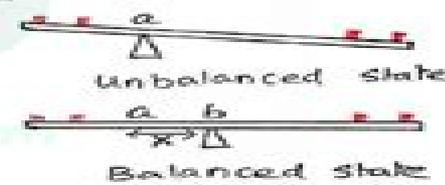
The tendency of a mass to rotate with respect to supporting point is called moment of mass

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 $m_1 x_1 + m_2 x_2 + \dots + m_n x_n = \sum_{i=1}^n m_i x_i = 0$ — (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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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** Philip W. Anderson (Physicist, United States), 1995 **Physics notes series**, **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 **A Complete Revision Physics : Notes and Questions** Spencer Robert Humby, Frederick Walter Goddard, 1955 Senior Physics Notes Robert Arthur Squire, 1955 **Notes and Questions in Physics** John S. Shearer, 1905

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