

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

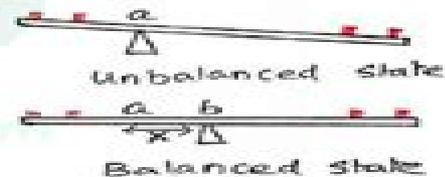
The moment of mass for an element mass m_n with respect to the fulcrum can be written as $m_n x_n$.

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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Victor M. Corman



Engineering Physics 1 Year Notes Crystal Structures:

World Directory of Crystallographers Allan L. Bednowitz, Armin P. Segmüller, 2013-04-17 A brief historical account of the background leading to the publication of the first four editions of the World Directory of Crystallographers was presented by G Boom in his preface to the Fourth Edition published late in 1971 That edition was produced by traditional typesetting methods from compilations of biographical data prepared by national Sub Editors The major effort required to produce a directory by manual methods provided the impetus to use computer techniques for the Fifth Edition The account of the production of the first computer assisted Directory was described by S C Abrahams in the preface of the Fifth Edition Computer composition which required a machine readable data base offered several major advantages The choice of typeface and range of characters was flexible Corrections and additions to the data base were rapid and once established it was hoped updating for future editions would be simple and inexpensive The data base was put to other Union uses such as preparation of mailing labels and formulation of lists of crystallographers with specified common fields of interest The Fifth Edition of the World Directory of Crystallographers was published in June of 1977 the Sixth in May of 1981 The Subject Indexes for the Fifth and Sixth Editions were printed in 1978 and 1981 respectively both having a limited distribution *World Directory of Crystallographers*, 2013-11-11 *Crystals and the Crystal Structure of Metallic Compounds* C. G. James, 1938 **The Engineering Index**, 1922 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world's most comprehensive interdisciplinary engineering database Engineering Index contains over 10.7 million records Each year over 500,000 new abstracts are added from over 5,000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly **Georgia Tech Library Notes**, 1962 **Chemical & Metallurgical Engineering** Eugene Franz Roeber, Howard Coon Parmelee, 1921 **Engineering**, 1904 The Glass Industry, 1930 **Monthly Record of Scientific Literature**, 1911 **Science and Art of Mining**, 1922 *Chemical News and Journal of Physical Science* William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1920 *The Chemical News and Journal of Industrial Science*, 1922 **Japanese Journal of Applied Physics**, 2006 *The Chemical News*, 1920 **The Subject Index to Periodicals**, 1929 *Government Research Directory* Jacqueline K. Barrett, 1995-12 **Books in Print**, 1981 **Engineering Properties of Ceramics** James F. Lynch, C. G. Ruderer, Battelle Memorial Institute, W. H. Duckworth, 1966 This Databook of engineering properties of ceramics supersedes the Materials Selection Handbook issued in October 1963 as RTD TDR 63 4102 and its two supplements dated May 1964 and April 1965 The materials covered are principally refractory inorganic compounds in the form of monophase crystalline ceramics Exceptions are the coverage of selected refractory

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