

## Chapter - 1

Force and moment (Resultant and Equilibrium)

Engineering mechanics  $\Rightarrow$  It is the branch of physical science which deals with the state of a body under the action of external agency.



Force  $\Rightarrow$  Force is an action of an external agency which changes or tries to change the state of a body. (Unit = Newton)

Moment  $\Rightarrow$  It is a measure of turning effect.  
 Unit = Nm  
 moment = Force  $\times$  distance

moment about O =  $F \times d$



Quantity  $\Rightarrow$  Anything which can be measured directly or indirectly.

- i) Scalar (mag)
- ii) vector (mag - dir)

Rigid body  $\Rightarrow$  When there is no deformation in the body after the application of external force, the body is said to be rigid.  $\Rightarrow$  Deformation is very negligible, so neglected.  $\Rightarrow$  No body is perfectly rigid.

Resolution of force  $\Rightarrow$



Composition of forces  $\Rightarrow$

$\Sigma F_x =$  Horizontal  $= F_1 + F_2 \cos \theta_1 - F_4 \sin \theta_2 - F_5 - F_6 \sin \theta_3 + F_8 \sin \theta_4$

$\Sigma F_y =$  Vertical  $= F_2 \sin \theta_1 + F_3 + F_4 \cos \theta_2 - F_6 \cos \theta_3 - F_7 - F_8 \cos \theta_4$



# Mechanical Engineering 1st Year Notes

**J Ma**



## **Mechanical Engineering 1st Year Notes:**

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**Announcements for the Years ...** Purdue University. Graduate School, 1929      **In Search of Technological Excellence** John Heywood, 2025-09-04 The notion that Britain was losing its international industrial competitiveness has preoccupied governments since the Second World War Policymakers have sought to address this over the years and yet Britain's relative industrial decline has appeared to continue raising questions about its root causes In Search of Technological Excellence analyses the policymaking and policy implementation in the education of engineers and technologists from the 1945 report of the Percy Committee on Higher Technological Education to the conclusion of the Thatcher government's Enterprise in Higher Education Initiative Using a plethora of previously unpublished sources this book focuses on the untold story of what the reports of the three key committees in this fifty year period Percy 1945 Fielden 1963 and Finniston 1980 actually achieved in secondary and higher technological education The core themes of this volume include industrial training and its assessment the controversy over the structure of industrial sandwich courses the perceived requirements for qualified specialists the manpower controversy curriculum development creativity and innovation in engineering engineers as managers and engineering in schools Thought provoking and comprehensive In Search of

Technological Excellence reflects on perennial problems to help clarify how this history can inform policymaking today and will be of interest to policymakers practitioners and students in engineering education and public administration *Railway Mechanical Engineer* ,1916 **Industrial education** United States. Bureau of Labor,1911 Standard Corporation Service and Unlisted and Local Securities Service Standard Statistics Company,1918 News Notes of the Executive Board, A.L.A. Division of Cataloging and Classification ,1953 *Statistics of Public Education in England and Wales* Great Britain. Board of Education,1910

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