

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.

State $\begin{cases} \rightarrow \text{state of rest} \\ \rightarrow \text{state of motion} \end{cases}$

External agency $\begin{cases} \rightarrow \text{Force} \\ \rightarrow \text{moment} \end{cases}$

- Force $\Rightarrow$ Force is an action of an external agency which changes or tries to change the state of a body. (Unit = Newton; Push/Pull)
- Moment $\Rightarrow$ It is a measure of turning effect.
Unit = Nm
moment = Force $\times$ $\perp$ distance

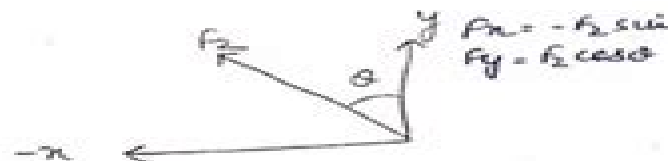
$$\text{moment about A} = F \times d$$

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

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

- 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 $\Rightarrow$



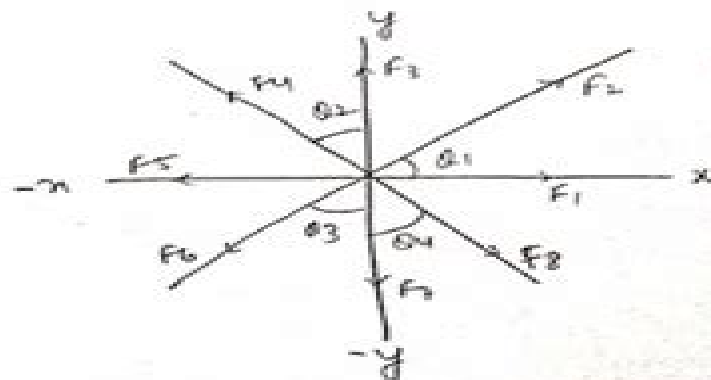
- Composition of forces $\Rightarrow$

ΣF_x = Horizontal

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

ΣF_y = Vertical

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



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