

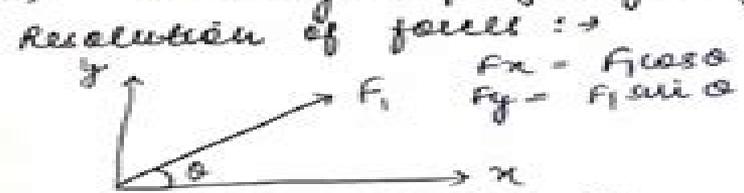
## Chapter - 1

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)
- 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.



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



# Highway Engineering Lecture Notes Pdf

**Yicheng Fang**



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