

## 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 Building Services Engineering Lecture Notes

**L Reisser**



## **Mechanical Building Services Engineering Lecture Notes:**

## Adopting the Song of Expression: An Psychological Symphony within **Mechanical Building Services Engineering Lecture Notes**

In some sort of taken by screens and the ceaseless chatter of instantaneous connection, the melodic splendor and emotional symphony produced by the published word frequently diminish into the back ground, eclipsed by the relentless noise and interruptions that permeate our lives. However, located within the pages of **Mechanical Building Services Engineering Lecture Notes** a stunning fictional prize filled with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that charming masterpiece conducts visitors on a mental trip, well unraveling the concealed songs and profound affect resonating within each carefully constructed phrase. Within the depths of this touching assessment, we will examine the book is central harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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