

2.

Chapter - 1  
 Force and moment (resultant and equilibrium)  
 Force and moment (resultant and equilibrium)  
 Force and moment (resultant and equilibrium)

- Engineering mechanics :- It is the branch of physical science which deals with the state of a body under the action of external agency.
- State  $\rightarrow$  state of rest      External agency  $\rightarrow$  moment  
 State  $\rightarrow$  state of motion
- Force :- Force is an action or an external agency which changes or tends to change the state of a body. (unit = Newton)
- Moment :- It is a measure of turning effect.  
 moment = Force  $\times$  1<sup>st</sup> distance  
 unit = Nm

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

Quantity :- Anything which can be measured directly or indirectly.

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

Rigid body :- When there is no deflection in the body after the application of external force, the body is said to rigid.  
 $\Rightarrow$  Deflection is very negligible, so neglected.  
 $\Rightarrow$  No body is perfectly rigid.

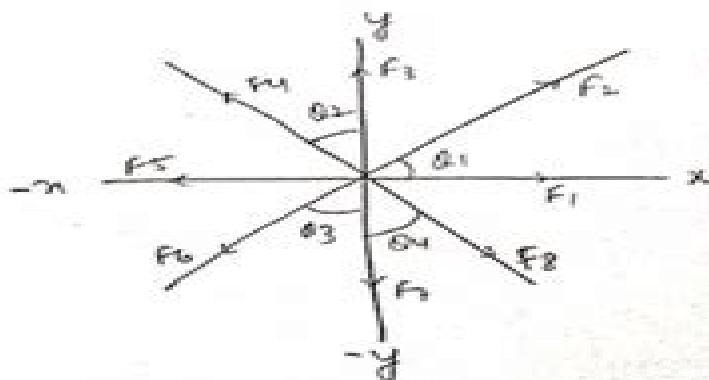
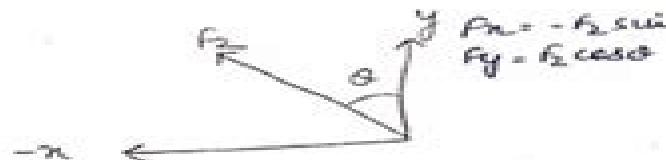
Resolution of forces :-



Composition of forces :-

$$\begin{aligned} \sum F_x &= F_1 + F_2 \cos \theta_1 - F_3 \sin \theta_2 - F_5 \\ \text{Horizontal} \quad & - F_6 \sin \theta_3 + F_7 \sin \theta_4 \end{aligned}$$

$$\begin{aligned} \sum F_y &= F_2 \sin \theta_1 + F_3 + F_4 \cos \theta_2 \\ \text{Vertical} \quad & - F_6 \cos \theta_3 - F_7 - F_8 \cos \theta_4 \end{aligned}$$



# Basic Mechanical Engineering Notes

**George Croydon Marks baron Marks**

## **Basic Mechanical Engineering Notes:**

**Basic Mechanical Engineering** M.P. Poonia, S.C. Sharma, This book Basic Mechanical Engineering has been written to provide knowledge and insight into various aspects of Mechanical Engineering This book is intended as text book to be used by the students in the technical institutions i e Engineering Colleges and Polytechnics The book covers Syllabi of various Universities on Basic Mechanical Engineering Elements of Mechanical Engineering Mechanical Engineering Introduction to Mechanical Engineering and Fundamentals of Mechanical Engineering for the students of all the disciplines of Engineering Adequate attention has been paid to emphasize on basic principles involved in the subject matter The explanation in the text has been supported with line diagrams along with numerous solved problems The readers will find the book highly useful as a comprehensive text covering basic principles in simple language and easy to grasp formatting *Comprehensive Basic Mechanical Engineering* R.K. Rajput,2005 *Mechanical Engineering* American Society of Mechanical Engineers,1920 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908 **Power Notes for Steam, Mechanical and Consulting Engineers** ,1926

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