

## 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 =  $F \times d$

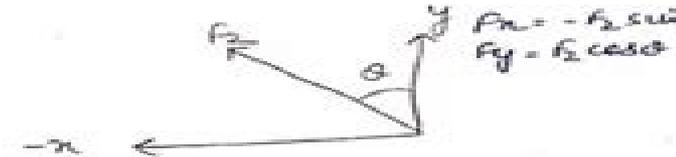


Quantity  $\Rightarrow$  Anything which can be measured directly or indirectly.

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



# Basic Mechanical Engineering Notes Calicut University

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## **Table of Contents Basic Mechanical Engineering Notes Calicut University**

1. Understanding the eBook Basic Mechanical Engineering Notes Calicut University
  - The Rise of Digital Reading Basic Mechanical Engineering Notes Calicut University
  - Advantages of eBooks Over Traditional Books
2. Identifying Basic Mechanical Engineering Notes Calicut University
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Basic Mechanical Engineering Notes Calicut University
  - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Mechanical Engineering Notes Calicut University

- Personalized Recommendations
  - Basic Mechanical Engineering Notes Calicut University User Reviews and Ratings
  - Basic Mechanical Engineering Notes Calicut University and Bestseller Lists
5. Accessing Basic Mechanical Engineering Notes Calicut University Free and Paid eBooks
    - Basic Mechanical Engineering Notes Calicut University Public Domain eBooks
    - Basic Mechanical Engineering Notes Calicut University eBook Subscription Services
    - Basic Mechanical Engineering Notes Calicut University Budget-Friendly Options
  6. Navigating Basic Mechanical Engineering Notes Calicut University eBook Formats
    - ePub, PDF, MOBI, and More
    - Basic Mechanical Engineering Notes Calicut University Compatibility with Devices
    - Basic Mechanical Engineering Notes Calicut University Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Basic Mechanical Engineering Notes Calicut University
    - Highlighting and Note-Taking Basic Mechanical Engineering Notes Calicut University
    - Interactive Elements Basic Mechanical Engineering Notes Calicut University
  8. Staying Engaged with Basic Mechanical Engineering Notes Calicut University
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Basic Mechanical Engineering Notes Calicut University
  9. Balancing eBooks and Physical Books Basic Mechanical Engineering Notes Calicut University
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Basic Mechanical Engineering Notes Calicut University
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Basic Mechanical Engineering Notes Calicut University
    - Setting Reading Goals Basic Mechanical Engineering Notes Calicut University
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Basic Mechanical Engineering Notes Calicut University

- Fact-Checking eBook Content of Basic Mechanical Engineering Notes Calicut University
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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