

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



# 6th Sem Mechanical Engineering Notes

**B Lingard**



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## **Table of Contents 6th Sem Mechanical Engineering Notes**

1. Understanding the eBook 6th Sem Mechanical Engineering Notes
  - The Rise of Digital Reading 6th Sem Mechanical Engineering Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying 6th Sem Mechanical Engineering Notes
  - 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 6th Sem Mechanical Engineering Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from 6th Sem Mechanical Engineering Notes
  - Personalized Recommendations
  - 6th Sem Mechanical Engineering Notes User Reviews and Ratings

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