

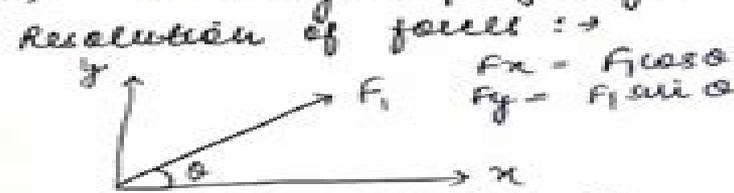
## Chapter - 1

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  $\times$   $\perp$  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  $\Rightarrow$
- $\Sigma F_x = \text{Horizontal}$   
 $F_1 + F_2 \cos \theta_1 - F_4 \sin \theta_2 - F_5 - F_6 \sin \theta_3 + F_8 \sin \theta_4$
- $\Sigma F_y = \text{Vertical}$   
 $F_2 \sin \theta_1 + F_3 + F_4 \cos \theta_2 - F_6 \cos \theta_3 - F_7 - F_8 \cos \theta_4$



# Diploma First Semester Mechanical Engineering Physics Notes

**SB Merriam**



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### **Table of Contents Diploma First Semester Mechanical Engineering Physics Notes**

1. Understanding the eBook Diploma First Semester Mechanical Engineering Physics Notes
  - The Rise of Digital Reading Diploma First Semester Mechanical Engineering Physics Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Diploma First Semester Mechanical Engineering Physics 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 Diploma First Semester Mechanical Engineering Physics Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Diploma First Semester Mechanical Engineering Physics Notes
  - Personalized Recommendations

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