

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

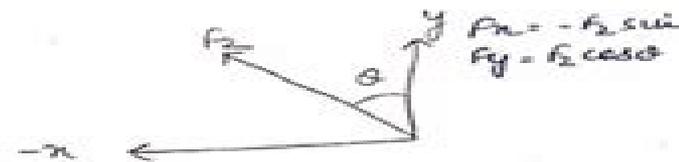
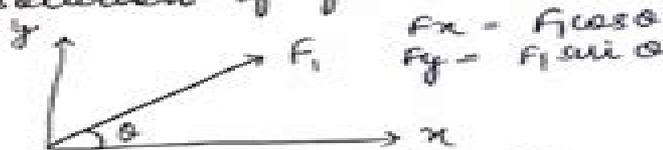
moment about O = $F \times d$

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.

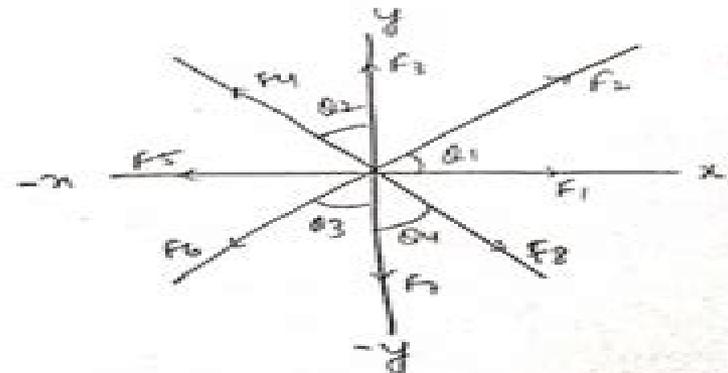
Resolution of force \Rightarrow



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



N1 Mechanical Engineering Notes

L Cohen



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Table of Contents N1 Mechanical Engineering Notes

1. Understanding the eBook N1 Mechanical Engineering Notes
 - The Rise of Digital Reading N1 Mechanical Engineering Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying N1 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 N1 Mechanical Engineering Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from N1 Mechanical Engineering Notes
 - Personalized Recommendations
 - N1 Mechanical Engineering Notes User Reviews and Ratings
 - N1 Mechanical Engineering Notes and Bestseller Lists
5. Accessing N1 Mechanical Engineering Notes Free and Paid eBooks
 - N1 Mechanical Engineering Notes Public Domain eBooks
 - N1 Mechanical Engineering Notes eBook Subscription Services
 - N1 Mechanical Engineering Notes Budget-Friendly Options
6. Navigating N1 Mechanical Engineering Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - N1 Mechanical Engineering Notes Compatibility with Devices
 - N1 Mechanical Engineering Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N1 Mechanical Engineering Notes
 - Highlighting and Note-Taking N1 Mechanical Engineering Notes
 - Interactive Elements N1 Mechanical Engineering Notes
8. Staying Engaged with N1 Mechanical Engineering Notes

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers N1 Mechanical Engineering Notes
- 9. Balancing eBooks and Physical Books N1 Mechanical Engineering Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N1 Mechanical Engineering Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine N1 Mechanical Engineering Notes
 - Setting Reading Goals N1 Mechanical Engineering Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of N1 Mechanical Engineering Notes
 - Fact-Checking eBook Content of N1 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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