

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



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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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