

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



Marine Engineering Lecture Notes

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Table of Contents Marine Engineering Lecture Notes

1. Understanding the eBook Marine Engineering Lecture Notes
 - The Rise of Digital Reading Marine Engineering Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Marine Engineering Lecture 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 Marine Engineering Lecture Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Marine Engineering Lecture Notes
 - Personalized Recommendations
 - Marine Engineering Lecture Notes User Reviews and Ratings
 - Marine Engineering Lecture Notes and Bestseller Lists
5. Accessing Marine Engineering Lecture Notes Free and Paid eBooks
 - Marine Engineering Lecture Notes Public Domain eBooks
 - Marine Engineering Lecture Notes eBook Subscription Services
 - Marine Engineering Lecture Notes Budget-Friendly Options
6. Navigating Marine Engineering Lecture Notes eBook Formats

- ePub, PDF, MOBI, and More
 - Marine Engineering Lecture Notes Compatibility with Devices
 - Marine Engineering Lecture Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Marine Engineering Lecture Notes
 - Highlighting and Note-Taking Marine Engineering Lecture Notes
 - Interactive Elements Marine Engineering Lecture Notes
 8. Staying Engaged with Marine Engineering Lecture Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Marine Engineering Lecture Notes
 9. Balancing eBooks and Physical Books Marine Engineering Lecture Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Marine Engineering Lecture Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Marine Engineering Lecture Notes
 - Setting Reading Goals Marine Engineering Lecture Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Marine Engineering Lecture Notes
 - Fact-Checking eBook Content of Marine Engineering Lecture 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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