

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



Engineering Mechanics Notes For First Year

David Kirk



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Table of Contents Engineering Mechanics Notes For First Year

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

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