

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 $\times$ $\perp$ distance

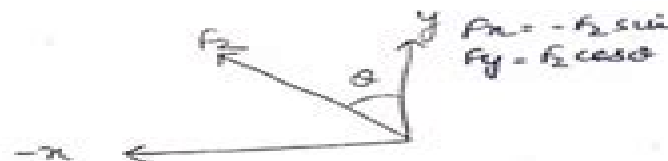
$$\text{moment about A} = F \times d$$

- Quantity $\Rightarrow$ Anything which can be measured directly or indirectly.

i) Scalar (mag) ii) vector (mag - dirⁿ)

- 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 $\Rightarrow$



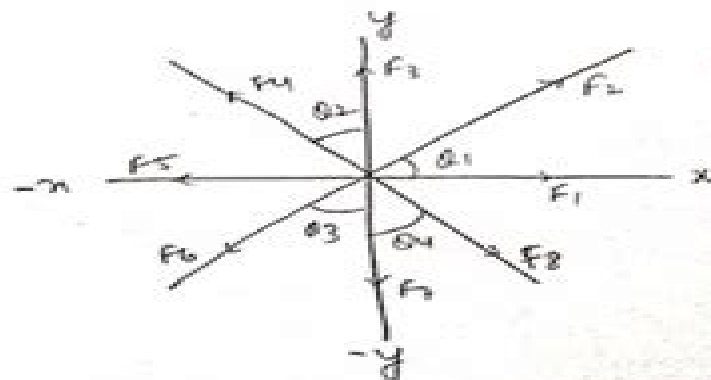
- Composition of forces $\Rightarrow$

ΣF_x = Horizontal

$$F_1 + F_2 \cos \theta_1 - F_4 \sin \theta_2 - F_5 - F_6 \sin \theta_3 + F_8 \sin \theta_4$$

ΣF_y = Vertical

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



Drainage Engineering Lecture Notes

G Orfield



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Table of Contents Drainage Engineering Lecture Notes

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

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