

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 = $F \times d$

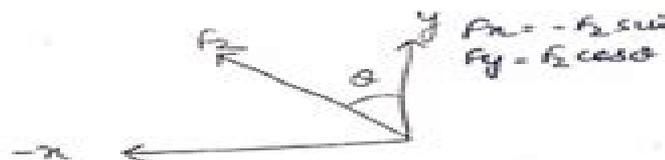


Quantity \Rightarrow Anything which can be measured directly or indirectly.

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



B Tech 1st Year Engineering Mechanics Notes

L Cohen



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A Textbook of Engineering Mechanics RS Khurmi | N Khurmi, 2019 A Textbook of Engineering Mechanics is a must buy for all students of engineering as it is a lucidly written textbook on the subject with crisp conceptual explanations aided with simple to understand examples Important concepts such as Moments and their applications Inertia Motion Laws Harmony and Connected Bodies Kinetics of Motion of Rotation as well as Work Power and Energy are explained with ease for the learner to really grasp the subject in its entirety A book which has seen foreseen and incorporated changes in the subject for 50 years it continues to be one of the most sought after texts by the students

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Table of Contents B Tech 1st Year Engineering Mechanics Notes

1. Understanding the eBook B Tech 1st Year Engineering Mechanics Notes
 - The Rise of Digital Reading B Tech 1st Year Engineering Mechanics Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying B Tech 1st Year Engineering Mechanics 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 B Tech 1st Year Engineering Mechanics Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from B Tech 1st Year Engineering Mechanics Notes
 - Personalized Recommendations
 - B Tech 1st Year Engineering Mechanics Notes User Reviews and Ratings
 - B Tech 1st Year Engineering Mechanics Notes and Bestseller Lists
5. Accessing B Tech 1st Year Engineering Mechanics Notes Free and Paid eBooks

- B Tech 1st Year Engineering Mechanics Notes Public Domain eBooks
 - B Tech 1st Year Engineering Mechanics Notes eBook Subscription Services
 - B Tech 1st Year Engineering Mechanics Notes Budget-Friendly Options
6. Navigating B Tech 1st Year Engineering Mechanics Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - B Tech 1st Year Engineering Mechanics Notes Compatibility with Devices
 - B Tech 1st Year Engineering Mechanics Notes Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of B Tech 1st Year Engineering Mechanics Notes
 - Highlighting and Note-Taking B Tech 1st Year Engineering Mechanics Notes
 - Interactive Elements B Tech 1st Year Engineering Mechanics Notes
 8. Staying Engaged with B Tech 1st Year Engineering Mechanics Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers B Tech 1st Year Engineering Mechanics Notes
 9. Balancing eBooks and Physical Books B Tech 1st Year Engineering Mechanics Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection B Tech 1st Year Engineering Mechanics Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine B Tech 1st Year Engineering Mechanics Notes
 - Setting Reading Goals B Tech 1st Year Engineering Mechanics Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of B Tech 1st Year Engineering Mechanics Notes
 - Fact-Checking eBook Content of B Tech 1st Year Engineering Mechanics 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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