

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



Mechanical Engineering 1st Year Notes

IM Harris



Mechanical Engineering 1st Year Notes:

The book delves into Mechanical Engineering 1st Year Notes. Mechanical Engineering 1st Year Notes is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mechanical Engineering 1st Year Notes, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mechanical Engineering 1st Year Notes
- Chapter 2: Essential Elements of Mechanical Engineering 1st Year Notes
- Chapter 3: Mechanical Engineering 1st Year Notes in Everyday Life
- Chapter 4: Mechanical Engineering 1st Year Notes in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mechanical Engineering 1st Year Notes. The first chapter will explore what Mechanical Engineering 1st Year Notes is, why Mechanical Engineering 1st Year Notes is vital, and how to effectively learn about Mechanical Engineering 1st Year Notes.

3. In chapter 2, the author will delve into the foundational concepts of Mechanical Engineering 1st Year Notes. This chapter will elucidate the essential principles that must be understood to grasp Mechanical Engineering 1st Year Notes in its entirety.

4. In chapter 3, the author will examine the practical applications of Mechanical Engineering 1st Year Notes in daily life. This chapter will showcase real-world examples of how Mechanical Engineering 1st Year Notes can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Mechanical Engineering 1st Year Notes in specific contexts. This chapter will explore how Mechanical Engineering 1st Year Notes is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Mechanical Engineering 1st Year Notes. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mechanical Engineering 1st Year Notes.

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