

## Motion in One Dimension

### Rest and Motion

- A body is said to be at rest if its position with respect to its surrounding does not change.
- A body is said to be in motion if its position changes with respect to its surroundings.
- **One dimensional motion:** When a body moves along a straight line path, its motion is said to be one dimensional motion. It is also called motion in a straight line or rectilinear motion.
- **Representation of one dimensional motion:** The path of straight line motion is represented by a straight line parallel to the x-axis.

### Distance and Displacement

- The total length of the path travelled by a body is called the **distance** travelled by that body. This path may or may not be straight.  
It is a scalar quantity and is represented by  $S$ . Its SI unit is metre (m).
- The shortest distance from the initial to the final position of the body is called magnitude of displacement. Its direction is from the initial to the final position.

It is a vector quantity and is represented by  $\vec{S}$ . Its SI unit is also metre (m).

- **Distinction between distance and displacement**

| Distance   | Displacement   |
|--|--|
| It is the length of path travelled by an object in a certain time. | It is the shortest distance between the initial and final positions. |
| It is a scalar.  | It is a vector.  |
| It depends on the path followed by the object.                     | It is independent of the path of the object.                         |
| It can be more than or equal to the magnitude of displacement.     | Its magnitude can be less than or equal to the distance.             |

### Speed

- Speed is defined as 'the distance travelled by an object per unit time' or 'the rate of change of distance with time'.

$$\text{Speed}(v) = \frac{\text{Distance}(S)}{\text{time}(t)}$$

- The SI unit of speed is **metre per second** and is written as  $\text{m s}^{-1}$ .
- It is a scalar quantity.

# Physics Notes Motion In One Dimension Gneet

**Wolfgang Guggemos**



## **Physics Notes Motion In One Dimension Gneet:**

The book delves into Physics Notes Motion In One Dimension Gneet. Physics Notes Motion In One Dimension Gneet is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physics Notes Motion In One Dimension Gneet, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Physics Notes Motion In One Dimension Gneet
    - Chapter 2: Essential Elements of Physics Notes Motion In One Dimension Gneet
    - Chapter 3: Physics Notes Motion In One Dimension Gneet in Everyday Life
    - Chapter 4: Physics Notes Motion In One Dimension Gneet in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Physics Notes Motion In One Dimension Gneet. The first chapter will explore what Physics Notes Motion In One Dimension Gneet is, why Physics Notes Motion In One Dimension Gneet is vital, and how to effectively learn about Physics Notes Motion In One Dimension Gneet.
  3. In chapter 2, the author will delve into the foundational concepts of Physics Notes Motion In One Dimension Gneet. This chapter will elucidate the essential principles that must be understood to grasp Physics Notes Motion In One Dimension Gneet in its entirety.
  4. In chapter 3, this book will examine the practical applications of Physics Notes Motion In One Dimension Gneet in daily life. The third chapter will showcase real-world examples of how Physics Notes Motion In One Dimension Gneet can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Physics Notes Motion In One Dimension Gneet in specific contexts. The fourth chapter will explore how Physics Notes Motion In One Dimension Gneet is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Physics Notes Motion In One Dimension Gneet. The final chapter will summarize the key points that have been discussed throughout the book.
- The 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 Physics Notes Motion In One Dimension Gneet.

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