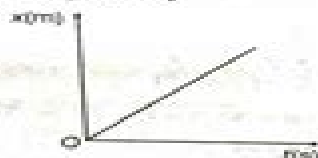


Motion in a Straight Line

A Quick Recapitulation of the Chapter

1. **Kinematics** is the branch of physics that deals with the study of motion without going to the cause of motion.
2. Total length of the path traversed by an object during motion is called **distance** or **total path length**. It is a scalar quantity. It cannot be negative or zero.
3. The shortest distance between the initial and final positions of any object is called its **displacement**. It is a vector quantity. It can be positive, negative or zero.
4. If an object moves along the straight line covering equal distance in equal intervals to time, it is said to be in a **uniform motion**. The position-time graph of such a motion is given by



5. **Average velocity** is defined as the change in position or displacement (Δx) divided by the time interval (Δt), in which the displacement occurs.

$$\bar{v} = \frac{\Delta x}{\Delta t} = \frac{x_2 - x_1}{t_2 - t_1}$$

where, x_2 and x_1 are the positions of the object at time t_2 and t_1 , respectively. It can be positive or negative depending upon the sign of the displacement.

6. **Average speed** is defined as the total path length travelled divided by the total time interval during which the motion has taken place.

$$\text{Average speed} = \frac{\text{Total path length}}{\text{Total time interval}}$$

It is always positive.

7. **Instantaneous velocity** at any instant is defined as the limit of the average velocity as the time interval Δt becomes infinitesimally small, i.e.,

$$v = \lim_{\Delta t \rightarrow 0} \frac{\Delta x}{\Delta t} = \frac{dx}{dt}$$

Here, $\lim_{\Delta t \rightarrow 0}$ stands for the operation of taking limit as $\Delta t \rightarrow 0$ of the quantity on its right. $\frac{dx}{dt}$ is the rate of

change of position with respect to time at that instant.

8. The time rate of change of velocity is called **acceleration**.

$$\text{Acceleration, } a = \frac{\text{Change in velocity}}{\text{Time interval}}$$

Its unit is ms^{-2} and it is a vector quantity.

9. The **average acceleration** $\bar{a}$ over a time interval is defined as the change of velocity divided by the time interval.

$$\bar{a} = \frac{v_2 - v_1}{t_2 - t_1} = \frac{\Delta v}{\Delta t}$$

where, v_2 and v_1 are the instantaneous velocities at times t_2 and t_1 .

10. **Instantaneous acceleration** of an object is the first time derivative of velocity at a given instant.

$$a = \frac{dv}{dt} = \frac{d^2x}{dt^2} \quad \text{or} \quad a = \lim_{\Delta t \rightarrow 0} \frac{\Delta v}{\Delta t}$$

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Table of Contents Exempler Caps In Gradephysical Questions

1. Understanding the eBook Exempler Caps In Gradephysical Questions
 - The Rise of Digital Reading Exempler Caps In Gradephysical Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Exempler Caps In Gradephysical Questions
 - 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 Exempler Caps In Gradephysical Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exempler Caps In Gradephysical Questions
 - Personalized Recommendations
 - Exempler Caps In Gradephysical Questions User Reviews and Ratings
 - Exempler Caps In Gradephysical Questions and Bestseller Lists
5. Accessing Exempler Caps In Gradephysical Questions Free and Paid eBooks
 - Exempler Caps In Gradephysical Questions Public Domain eBooks
 - Exempler Caps In Gradephysical Questions eBook Subscription Services
 - Exempler Caps In Gradephysical Questions Budget-Friendly Options
6. Navigating Exempler Caps In Gradephysical Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Exempler Caps In Gradephysical Questions Compatibility with Devices
 - Exempler Caps In Gradephysical Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exempler Caps In Gradephysical Questions
 - Highlighting and Note-Taking Exempler Caps In Gradephysical Questions
 - Interactive Elements Exempler Caps In Gradephysical Questions
8. Staying Engaged with Exempler Caps In Gradephysical Questions

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exemplar Caps In Gradephysical Questions
9. Balancing eBooks and Physical Books Exemplar Caps In Gradephysical Questions
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exemplar Caps In Gradephysical Questions
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exemplar Caps In Gradephysical Questions
- Setting Reading Goals Exemplar Caps In Gradephysical Questions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exemplar Caps In Gradephysical Questions
- Fact-Checking eBook Content of Exemplar Caps In Gradephysical Questions
 - 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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