

PHYSICS GRADE 10

CHAPTER ONE LINEAR MOTION

Introduction:

Study of motion is divided into two:

1. Kinematics
2. Dynamics

In kinematics forces causing motion are disregarded while dynamics deals with motion of objects and the forces causing them.

A. Displacement

Distance covered by a body in a specified direction is called displacement. It is denoted by letter 's' and has both magnitude and direction. Distance is the movement from one point to another. The SI unit for displacement is the metre (m).

B. Speed

This is the distance covered per unit time.

Speed = distance covered/ time taken. (Distance is a scalar quantity since it has magnitude only. The SI unit for speed is metres per second (m/s or ms⁻¹).

Average speed = total distance covered/total time taken

Other units for speed used are km/h.

(Examples)

1. A body covers a distance of 20m in 4 seconds, it rests for 10 seconds and finally covers a distance of 50m in 10 seconds. Calculate the average speed.

Solution

Total distance covered = 20 + 50 = 70m

Total time taken = 4 + 10 + 10 = 24 seconds

Therefore average speed = 70/24 = 2.9m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 100 km/h in 20 seconds.

Solution

Distance covered = speed × time

$$= 100 \times \frac{20}{3600} \text{ (convert km/h to m/s)}$$

$$= 50 \times 20$$

$$= 1000 \text{ m}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2.000 km?

Solution

Speed: 100 km/h = $100 \times \frac{1000}{3600} \text{ m/s} = 27.78 \text{ m/s}$

Time = distance/speed

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

III. Velocity

This is the change of displacement per unit time. It is a vector quantity.

Velocity = change in displacement/total time taken

The SI unit for velocity is m/s

(Examples)

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J Dewey



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Game Physics Engine Development Ian Millington, 2010-07-23 Physics is really important to game programmers who need to know how to add physical realism to their games They need to take into account the laws of physics when creating a simulation or game engine particularly in 3D computer graphics for the purpose of making the effects appear more real to the observer or player The game engine needs to recognize the physical properties of objects that artists create and combine them with realistic motion The physics ENGINE is a computer program that you work into your game that simulates Newtonian physics and predict effects under different conditions In video games the physics engine uses real time physics to improve realism This is the only book in its category to take readers through the process of building a complete game ready physics engine from scratch The Cyclone game engine featured in the book was written specifically for this book and has been utilized in iPhone application development and Adobe Flash projects There is a good deal of master class level information available but almost nothing in any format that teaches the basics in a practical way The second edition includes NEW and or revised material on collision detection 2D physics casual game physics for Flash games more references a glossary and end of chapter exercises The companion website will include the full source code of the Cyclone physics engine along with example applications that show the physics system in operation

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