

Kinematics

Kinematics is a branch of mechanics which primarily study motion and what appears to be motion along a straight line in terms of position, velocity, acceleration. Kinematic motion like that of a car travelling on a straight path and vertical motion like that of an object falling and motion involving an oscillating motion. Projectile and circular motion are the other two special cases of kinematic motion.

Quantification for Kinematic Motion

Distance and Displacement

Distance tells us the total path travelled by an object. Displacement on the other hand, measures the length of a straight line that connects the object's initial to its final position. It is also described as the shortest distance covered by the object. Distance is a scalar quantity while displacement is vector. (Always remember that in length, the B indicates both is scalar quantity)



Figure 1.1, shows an object that moved from point A to point B. The wavy line represents the distance or total path travelled by the object regardless of the direction. The total line indicates the displacement of the object from its initial to final position.

Speed and Velocity

Speed is the rate at which distance changes with respect to time. It is given by the:

$$s = \frac{d}{t} \quad \text{eqn. 1.1}$$

For example, the speed of light in vacuum (empty space) is 3×10^8 m/s. This tells us that light can travel 3×10^8 meters in one unit second. Speed is the given distance in displacement or an average speed. Sometimes speed refers to the speed at a given instant of time. Average speed is calculated by getting the average of all the speeds in a particular time, regardless of the units and steps. It can be expressed as:

$$s_{avg} = \frac{\text{total distance}}{\text{total time}} \quad \text{or} \quad s_{avg} = \frac{d}{t} \quad \text{eqn. 1.2}$$

Velocity is a vector quantity that is sometimes speed with direction. It is constant in straight or the average velocity and can be calculated as displacement/total time for a given time:

$$v_{avg} = \frac{\text{total displacement}}{\text{total time}} \quad \text{or} \quad v_{avg} = \frac{\Delta x}{\Delta t} \quad \text{eqn. 1.3}$$

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