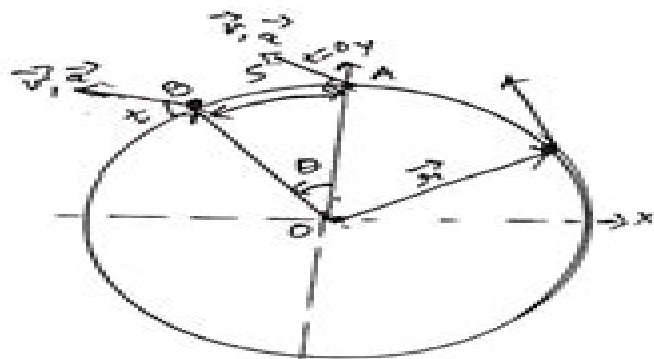


CIRCULAR MOTION



A motion in which a particle moves along the circumference of a circle, ^(arc) or traces an angle is said to be a circular motion.
If the speed of the particle remains same it is called as uniform circular motion (UCM).

eg. Motion of earth & planets around the sun, Motion of tip of minute hand, hour hand, second hand of a clock, motion of an electron around the nucleus.

Consider a particle moving revolving along the circumference of a circle of radius r in the anticlockwise sense.

In above figure

- $A \rightarrow$ Initial position of particle ($t=0$)
- $B \rightarrow$ final position at time t .
- $\theta \rightarrow$ angular displacement in time t .
- $r \rightarrow$ radius of circle
- $s \rightarrow$ length of arc AB .

Radius vector - A vector drawn from the centre of the circle to the instantaneous position of the particle (\vec{r}) (\vec{OA}, \vec{OB}), also known as position vector.

Angular displacement (θ) The angle subtended by arc AB with the centre. It is defined as the angle described by radius vector in given time at the centre of the circle. It is a vector.

$$\vec{\theta} = \frac{\vec{s}}{r} \quad \text{unit} \rightarrow \text{radian}$$

The direction of $\vec{\theta}$ is given by the right hand rule or right hand screw rule is perpendicular to plane of particle outside for anticlockwise motion & inside for clockwise motion.

If the particle performing UCM completes one revolution then $\theta = 360^\circ$ or 2π .

Notes For 1std Chapter Circular Motion

Scott C. Dulebohn



Notes For 1std Chapter Circular Motion:

Decoding **Notes For 1std Chapter Circular Motion**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Notes For 1std Chapter Circular Motion**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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