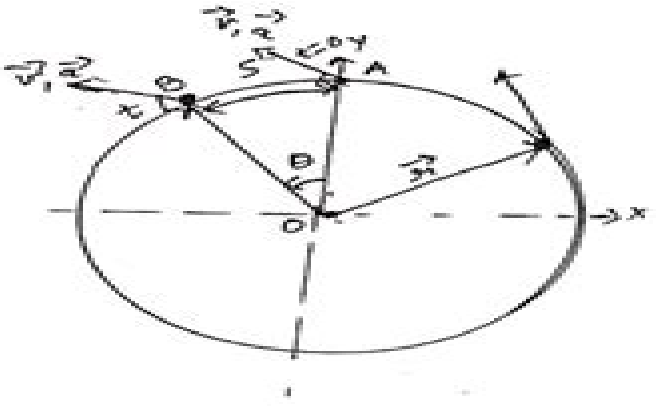
CIRCULAR MOTION



A motion in which a particle moves along the circumference of a circle, (or) traces an angle is said to be a <u>circular motion</u>.

If the speed of the particle remains same it is called as <u>uniform circular motion</u> (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 as revolving along the circumference of a circle of radius r in the anticlockwise sence

In above figure
A → Initial position of particle (t = 0)
B → final position at time t.
θ → angular displacement in time t.
r → radius of circle
S → length of arc AB.

<u>Radius vector</u> – 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.

<u>Angular displacement</u> (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

$$\vec{\theta} = \frac{\vec{S}}{\vec{r}}$$

unit → radian

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

If the particle perfoming UCM completes one revolution then $\theta = 360^\circ$ or $2\pi^c$.

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Notes For 1std Chapter Circular Motion

Prof. Narendra Kumar Agrawal

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Progressive Complete Learn To Play Acoustic Guitar Manual Muzician.com,Brett Duncan,2023-03-24 For beginner acoustic guitarists Everything you wanted to know about acoustic guitar playing contained within one course Features chords and arpeggios bass runs picking strumming and fingerpicking along with accompaniment and soloing techniques all introduced individually and then consolidated with complete solos or pieces **Physics Implications of a New 1st Order PDE** David J Maker,2012-03 A New Look at Our Universe This will revolutionize the way we think the way we work and the way we live This is a game changer for science More than 80 years ago the flat space Minkowski metric Dirac equation was derived But we know space is not flat indeed there are forces To compensate for such a fundamental mistake of dropping force i e the curved space metric term many gauges free parameters and renormalization must be fudge factored in Theoretical physics has thereby become confusing and permanently off track In this book we correct this mistake by NOT arbitrarily dropping this term We thereby include the general covariance in the Dirac equation and so naturally introduce force Here the general covariance is provided by a new spherically symmetric nonMinkowski metric kij with koo 1 r_H r with r_H 2e 2 m_e c 2 This corrects the original math mistake and so puts theoretical physics back on track resulting in breakthrough physics propulsion breakthrough energy ideas and a much deeper clearer understanding of our physical universe Dirac himself in the last paragraph of his last published paper urged physicists to fix his equation They wouldn t do it the gauges and free parameters remain and so theoretical physics is at a dead end fundamental science our future is at a dead end In this book you will see the math mistake undo it and begin to solve riddles in science that have plagued mankind for more than 80 years *Moonlight Sonata, 1st Movement-Artistic Preparation and Performance Series* Ludwig van Beethoven,Ingrid Jacobson Clarfield,2005-05-03 Artistic performance starts with artistic preparation The purpose of this series is to guide you through the three learning stages that lead to an artistic performance Preparatory and Introductory Practice Creative and Efficient Practice and Polishing for an Artistic Performance Background information and history are given for each piece as well as practice techniques that will teach students how to practice more efficiently

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