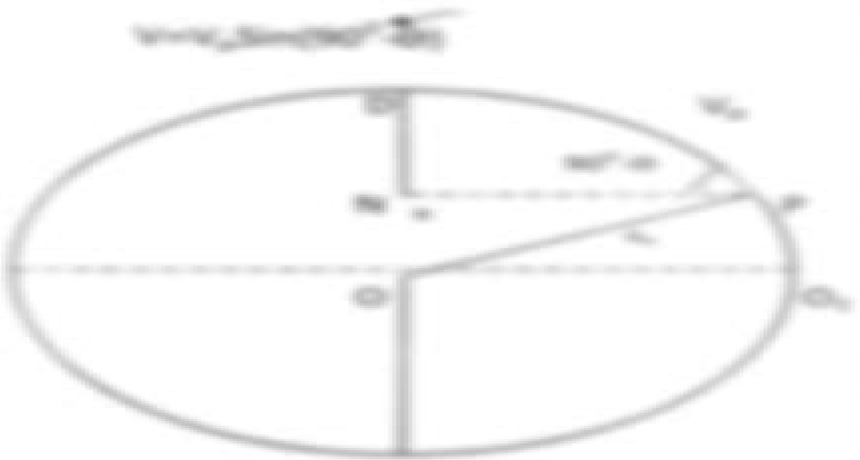
2- Instantaneous velocity

Let N be the projection of a particle P moving in a circle of radius x_o with angular frequency ω as shown in figure.

Here $\theta = \omega t$



The linear velocity V_o of point P at any instant t is

$v_o = x_o\omega$

$\boxed{v=\omega r}$

Velocity of N is the vertical component of velocity v_o in the direction parallel to DE. So

$$v = v_o Sin(90^\circ - \theta)$$

Put $v_o = x_o\omega$

$$v = x_o\omega Sin(90^\circ - \theta)$$

Sin(α-β)=SinαCosβ-CosαSinβ
Sin(90°-θ)=Sin90°Cos θ-Cos90°Sin θ
Sin(90°-θ)=(1)Cos θ − (0)Sin θ
Sin(90°-θ)=Cos θ

$$v = x_o\omega Cos\theta \text{ ....(1)}$$

In right triangle ONP

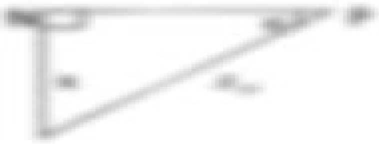
By Pythagoras Theorem

(Hyp)²=(Base)²+(Perp)²

$(x_o)^2 = (x)^2 + (NP)^2$

$x_o^2 - x^2 = (NP)^2$

$NP = \sqrt{x_o^2 - x^2}$



$$Cos\theta = \frac{Base}{Hyp}$$

$$Cos\theta = \frac{NP}{OP}$$

$$Cos\theta = \frac{\sqrt{x_o^2 - x^2}}{x_o}$$

Putting this value of Cos θ in (1)

$$v = x_o\omega \times \frac{\sqrt{x_o^2 - x^2}}{x_o}$$

$$v = \omega\sqrt{x_o^2 - x^2}$$

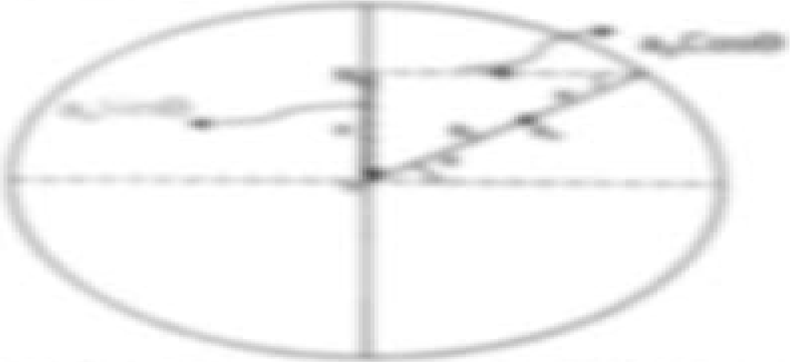
Direction of velocity of N:-

1- When θ varies from 0° to 90° then direction of v is from O to D.
2- When θ varies from 90° to 180° then direction of v is from D to O.
3- When θ varies from 180° to 270° then direction of v is from O to E.
4- When θ varies from 270° to 360° then direction of v is from E to O.

3- Instantaneous Acceleration

Let N be the projection of a particle P moving in a circle of radius x_o with angular frequency ω as shown in figure.

Here $\theta = \omega t$



The acceleration at any point moving along the circle of radius x_o is

$a_o = x_o\omega^2$

$\boxed{a=r\omega^2}$

The acceleration of N is the component of a_o along the diameter DE. So

$$a = a_o Sin\,\theta$$

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Puja Mehta

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Introduction to Vibrations and Waves H. John Pain,Patricia Rankin,2015-03-30 Based on the successful multi edition book The Physics of Vibrations and Waves by John Pain the authors carry over the simplicity and logic of the approach taken in the original first edition with its focus on the patterns underlying and connecting so many aspects of physical behavior whilst bringing the subject up to date so it is relevant to teaching in the 21st century The transmission of energy by wave propagation is a key concept that has applications in almost every branch of physics with transmitting mediums essentially acting as a continuum of coupled oscillators The characterization of these simple oscillators in terms of three parameters related to the storage exchange and dissipation of energy forms the basis of this book The text moves naturally on from a discussion of basic concepts such as damped oscillations diffraction and interference to more advanced topics such as transmission lines and attenuation wave guides diffusion Fourier series and electromagnetic waves in dielectrics and conductors Throughout the text the emphasis on the underlying principles helps readers to develop their physics insight as an aid to problem solving This book provides undergraduate students of physics and engineering with the mathematical tools required for full mastery of the concepts With worked examples presented throughout the text as well as the Problem sets concluding each chapter this textbook will enable students to develop their skills and measure their understanding of each topic step by step A companion website is also available which includes solutions to chapter problems and PowerPoint slides Review of The Physics of Vibrations and Waves 6e This is an excellent textbook full of interesting material clearly explained and fully worthy of being studied by future contributors Journal of Sound and Vibration Vibrations and Waves George C. King,2013-03-15 This introductory text emphasises physical principles rather than the mathematics Each topic begins with a discussion of the physical characteristics of the motion or system The mathematics is kept as clear as possible and includes elegant mathematical descriptions where possible Designed to provide a logical development of the subject the book is divided into two sections vibrations followed by waves A particular feature is the inclusion of many examples frequently drawn from everyday life along with more cutting edge ones Each chapter includes problems ranging in difficulty from simple to challenging and includes hints for solving problems Numerous worked examples included throughout the book

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Modelled as Quantum Harmonic Oscillator* William Fidler,2020-08-05 Research Paper postgraduate from the year 2020 in the subject Physics Theoretical Physics grade 1 language English abstract This work uses findings to generate a set of simple dimensionless equations one of which yields the maximum amplitude of oscillation of the system at dissociation The equations incorporate experimental data which are widely available and a set of such data for simple molecules is presented at the conclusion of the work The simplicity of the equations developed is exemplified by that for the maximum amplitude of oscillation Xe when the system encounters an incoming photon possessing the magnitude of the dissociation energy De of the molecule i e Xe R 2 sqrt De Be We Here R is the bond length We the energy of the photon which raises the system from the ground state to the first excited state and Be is the bond rotational constant It is suggested that the simple expressions developed here have their application in the violent events associated with dissociation in shock waves and or high energy particles emanating from stellar collapse and hence may be of utility in these areas of astrophysical modelling **Physics of Vibrations and Waves** H. J. Pain,2005 Annotation The main theme of this highly successful book is that the transmission of energy by wave propogation is fundamental to almost every branch of physics Therefore besides giving students a thorough grounding in the theory of waves and vibrations the book also demonstrates the pattern and unity of a large part of physics This new edition has been thoroughly revised and has been redeisgned to meet the best contemporary standards It includes new material on electron waves in solids using the Kronig Penney model to show how their allowed energies are limited to Brillouin zones The role of phonons is also discussed An Optical Transform is used to demonstrate the modern method of lens testing In the last two chapters the sections on chaos and solitons have been reduced but their essential contents remain As with earlier editions the book has a large number of problems together with hints on how to solve them The Physics of Vibrations and Waves 6th Edition will prove 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of physics This new edition has been thoroughly revised and redesigned to give it a more contemporary look It includes new material on electron waves in solids using the Kronig Penney model to show how their allowed energies are limited to Brillouin zones The role of phonons is also discussed An Optical Transfer Function is used to demonstrate the modern method of lens testing In the last two chapters the sections on chaos and solutions have been reduced but their essential contents remain As with earlier editions the book has a large number of problems together with hints on how to solve them **The Physics of Vibratn** Pippard,1978-12-14 *Frequency Measurement and Control* Chronos Group,2012-12-06 Periodical phenomena or more precisely quasiperiodical phenomena occupy a central position in physics For a long time their most important parameter has been their period However nowadays we are much more interested in their frequency and the many reasons for this are discussed in this book Throughout history evaluations of time have been based on periodical phenomena such as the apparent motion of the Sun Indeed the oldest unit of time is the day The apparent motion of the Moon and of the celestial sphere including changes in the appearance of the former provided longer units namely week month and year All these periodical phenomen the natural clocks were obviously well suited to the observation and prediction of the evolution of nature with its seasonal rhythm The gnomon and the clepsydra gave reasonably precise subdivisions of the day that could be used in timing human activities so long as they were mostly agricultural The invention of the pendulum and of balance wheel clocks marked the dawn of industrial civilisation which soon de manded measurements of time with ever increasing precision over shorter and shorter periods *Electrical and Mechanical Oscillations* Douglas Samuel Jones,1961 *The Chaffee Arc And High Frequency Oscillations* Oscar Simenson,2023-07-18 The Chaffee Arc and high frequency oscillations have long been subjects of interest and debate among physicists This book provides a detailed analysis of these phenomena drawing on the latest research and theories It explores the principles underlying the Chaffee Arc as well as its practical applications It also delves into the nature of high frequency oscillations and their role in a variety of physical systems A valuable resource for physicists engineers and anyone interested in cutting edge science This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available 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