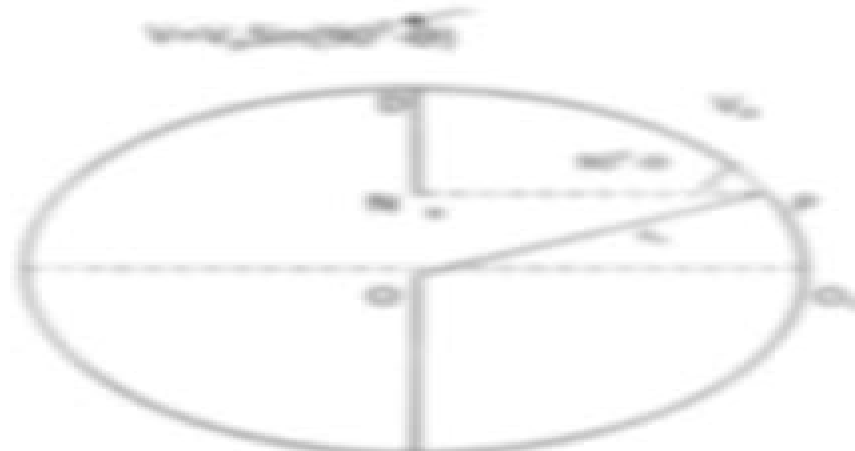


### 2- Instantaneous velocity

Let N be the projection of a particle P moving in a circle of radius  $r_0$  with angular frequency  $\omega$  as shown in figure.  
Here  $\theta = \omega t$



The linear velocity  $v_0$  of point P at any instant t is

$$v_0 = r_0 \omega$$

Velocity of N is the vertical component of velocity  $v_0$  in the direction parallel to DE. So

$$v = v_0 \sin(90^\circ - \theta)$$

Put  $v_0 = r_0 \omega$

$$v = r_0 \omega \sin(90^\circ - \theta)$$

$$\begin{aligned} \sin(90^\circ - \theta) &= \sin\theta \cos\theta - \cos\theta \sin\theta \\ \sin(90^\circ - \theta) &= \sin 90^\circ \cos\theta - \cos 90^\circ \sin\theta \\ \sin(90^\circ - \theta) &= (1) \cos\theta - (0) \sin\theta \\ \sin(90^\circ - \theta) &= \cos\theta \end{aligned}$$

$$v = r_0 \omega \cos\theta \quad \dots\dots (1)$$

In right triangle ONP

By Pythagoras Theorem

$$(ON)^2 = (OP)^2 - (NP)^2$$

$$r_0^2 - x^2 = (NP)^2$$

$$NP = \sqrt{r_0^2 - x^2}$$



$$\cos\theta = \frac{\text{Base}}{\text{Hypotenuse}}$$

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

$$\cos\theta = \frac{\sqrt{r_0^2 - x^2}}{r_0}$$

Putting this value of  $\cos\theta$  in (1)

$$v = r_0 \omega \times \frac{\sqrt{r_0^2 - x^2}}{r_0}$$

$$v = \omega \sqrt{r_0^2 - x^2}$$

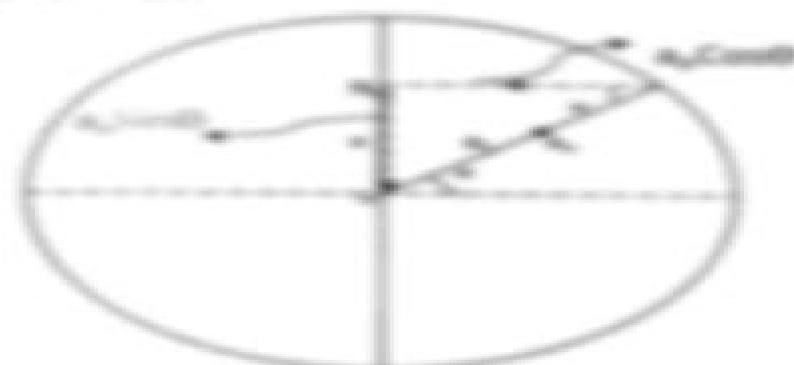
Direction of velocity of N:-

- 1- When  $\theta$  varies from  $0^\circ$  to  $90^\circ$  then direction of  $v$  is from O to D.
- 2- When  $\theta$  varies from  $90^\circ$  to  $180^\circ$  then direction of  $v$  is from D to O.
- 3- When  $\theta$  varies from  $180^\circ$  to  $270^\circ$  then direction of  $v$  is from O to E.
- 4- When  $\theta$  varies from  $270^\circ$  to  $360^\circ$  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  $r_0$  with angular frequency  $\omega$  as shown in figure.

Here  $\theta = \omega t$



The acceleration at any point moving along the circle of radius  $r_0$  is

$$a_0 = r_0 \omega^2$$

The acceleration of N is the component of  $a_0$  along the diameter DE. So

$$a = a_0 \sin\theta$$

# Physics Syjc Oscillation Chapter Full

**H. John Pain, Patricia Rankin**



## Phisics Syjc Oscillation Chapter Full:

*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

**The Physics of Vibrations and Waves** Herbert John Pain, 1983 *The Physics of Vibration* A. B. Pippard, 1989-11-16 Originally in two volumes this study covers both the classical aspects of vibration and the quantum oscillator **Vibrations and Waves** W. Gough, John Philip Gerald Richards, Rhys Philip Williams, 1996 Vibrations and waves are of fundamental importance themselves as well as being essential prerequisites for many other topics in physics and engineering The first edition of this undergraduate text has been revised to include the most developments within the discipline of vibrations and waves *Vibrations and Waves in Physics* Iain G. Main, 1993 *Vibrations and Waves in Physics* I. G. Main, 1978-03-23

**A First Course in Vibrations and Waves** Mohammad Samiullah, 2015 The book contains a detailed treatment of

vibrations and waves at an introductory level Since waves appear in almost all branches of physics and engineering readers will be exposed to different types of waves in this book with a common language

**The Physics of Vibration** Alfred Brian Pippard, 1983 *The Amplitude of Oscillation at the Dissociation of a Diatomic Molecule. 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  $X_e$  when the system encounters an incoming photon possessing the magnitude of the dissociation energy  $D_e$  of the molecule  $i.e. X_e = R \sqrt{2 D_e / B_e}$  Here  $R$  is the bond length  $B_e$  the energy of the photon which raises the system from the ground state to the first excited state and  $B_e$  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

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**THE PHYSICS OF VIBRATIONS AND WAVES, 6TH ED** Pain, 2006-07 Market\_Desc Undergraduate Students in Physics and Engineering Special Features A practical applied introduction to the subject New material includes electron waves in solids convolutions and their application to optical problems and the use of an Optical Transfer Function to demonstrate the modern method of lens testing Includes large number of problems with hints on how to solve them This edition has undergone a complete redesign to give the book a more modern look About The Book The main theme of this highly successful book is that the transmission of energy by wave propagation is fundamental to almost every branch of physics Therefore besides giving students a thorough grounding in the theory of wave and vibrations the book also demonstrates the pattern and unity of a large part of physics This new edition has been thoroughly revised and

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