

Waves, sound and light

Summary

1 Transverse pulses and waves

1.1 Properties of transverse pulses and waves

- A pulse is a single disturbance in a medium. A single crest is a transverse pulse. A single trough is also a transverse pulse.
- In a transverse pulse or wave, the particles of the medium vibrate at 90° to the direction in which the pulse or wave moves.
- The amplitude of a pulse is the maximum displacement from the position of rest of a particle in the medium.
- A wave is made up of one pulse after another.
- The 'hump' in a transverse wave is called a crest.
- The 'hollow' in a transverse wave is called a trough.
- Continuous transverse waves are produced by continuous vibrations of the medium.
- A vibration is a regular to-and-fro movement (up-and-down or forwards-and-backwards).
- The rest position of a vibrating object (also called the equilibrium position) is the position that it would be in when not vibrating.
- One complete vibration (also called one oscillation) is one complete to-and-fro movement. It is the movement from the rest position to the furthest point in one direction, then to the furthest point in the opposite direction, then back to the rest position.
- One complete vibration (or one oscillation) of the end of a slinky spring will produce one wavelength in the spring.
- Particles in a medium are in phase if they are vibrating perfectly in step with one another.
- Particles in a medium that are not vibrating perfectly in step with one another are out of phase. Two particles are completely out of phase if they are moving oppositely, with one reaching the crest at the same instant that the other reaches the trough.

1.2 Wavelength, frequency, amplitude, period, wave speed

- Wavelength (λ) is the distance between two consecutive points that are in phase. For transverse waves, wavelength is the distance between two successive crests or two successive troughs. The unit is metres (m). If the wavelength is given in any other unit (for instance, mm or nm), it must be converted to metres when doing a calculation.
- Frequency (f) is the number of wavelengths passing per second. It equals the frequency of the vibration making the waves. The unit is s^{-1} (per second). $1 s^{-1}$ is called a hertz (Hz).
- The amplitude of a wave is the maximum distance that a point in a wave moves from its rest position. This equals the distance from the rest position to the top of a crest or to the bottom of a trough. The unit is metres (m).

Waves Sound And Light Viewing Guide

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Modules, 2005 **Excel Science Study Guide, Years 7-8** Nicholas Pefani, 2005 *Study Guide for Physics in the Modern World 2E* Jerry Marion, 2012-12-02 Study Guide for Physics in the Modern World 2E provides information pertinent to the fundamental concepts in physics This book presents a list of concepts definitions and equations with various supplementary exercises for the readers Comprised of 21 chapters this book starts with an overview of the standard units of measure for length time mass energy force pressure and density This text then provides the meaning of various terms in physics including atom molecule element and compound Other chapters explore the composition and behavior of all ordinary matter in which it depends on the four basic units including electrons protons neutrons and photons This book discusses as well the method used for converting the units of physical quantities from one system of measurement to another The final chapter deals with the various applications of radiation in biological investigations as well as in medical diagnostics and therapeutics This book is intended for students enrolled in introductory physics courses **Library of Congress Subject Headings** Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 **Science Indiana Standards Manager Grade 6** McDougal Littell, 2004 **Foundation Course in Physics with Case Study Approach for JEE/ NEET/ Olympiad Class 9 - 5th Edition** Disha Experts, 2020-07-01 Foundation Physics for IIT JEE NEET Olympiad Class 9 is the thoroughly revised and updated 4th edition 2 colour of the comprehensive book for class 9 students who aspire to become Doctors Engineers The book goes for a complete makeover to 2 colour from B W so as to make it more reader friendly The theoretical concepts in the book are accompanied by Illustrations Check Points Do You Know Idea Box and Knowledge Enhancer The book has in total 1200 questions divided into 4 levels of fully solved exercises which are graded as per their level of difficulty Exercise 1 FIB True False Matching Very Short Short and Long Answer Type Questions Exercise 2 Textbook Exemplar and HOTS Questions Exercise 3 4 MCQs 1 Correct MCQs 1 Correct Passage Assertion Reason Multiple Matching and Integer Type Questions The book adheres to the latest syllabus set by the NCERT going beyond by incorporating those topics which will assist the students scale up in the next classes to achieve their academic dreams of Medicine or Engineering These topics are separately highlighted as Connecting Topics and an exercise is developed on the same *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2007 Examination Questions and Answers in Basic Anatomy and Physiology Martin Caon, 2016-10-11 This book provides two thousand multiple choice questions on human anatomy and physiology separated into 40 categories The answer to each question is accompanied by an explanation Each category has an introduction to set the scene for the questions to come However not all possible information is provided within these Introductions so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers The questions have been used in examinations for undergraduate introductory courses and as such reflect the focus of these particular courses and are

pitched at the level to challenge students that are beginning their training in anatomy and physiology The questions and answer combinations are to be used both by teachers to select questions for their next examinations and by students when studying for an upcoming test Students enrolled in the courses for which these questions were written include nursing midwifery paramedic physiotherapy occupational therapy nutrition dietetics health sciences and students taking an anatomy and physiology course as an elective

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Questions: Answers to Life's Greatest Mysteries Philip Benguhe,2015-12-17 Five Questions attempts to answer some of life s most basic and profound philosophic questions utilizing a holistic approach The book offers the perspective that while individuals have attempted to answer these questions from a religious philosophic cultural or scientific perspective the only hope at a more complete answer would arise from an integration of ideas from each of these areas The five key questions are Where did we come from Does God exist and what is His nature Does man have a soul which transcends death Why do pain suffering and evil exist What is the meaning of life **Barron's Physics Practice Plus: 400+ Online Questions and**

Quick Study Review Barron's Educational Series,Robert Jansen,Greg Young,2022-07-05 A guide for practice and key subject review on the basics of physics including over 400 online questions Ocean Acoustics J.A. DeSanto,2013-11-11 This Topics volume is devoted to a study of sound propagation in the ocean The effect of the interior of the ocean on underwater sound is analogous to the effect of a lens on light The oceanic lens is related as in light propagation to the index of refraction of the medium The latter is given by the ratio of the sound frequency to the speed of sound in water typically about 1500 m/s It is the variation of the sound speed due to changing temperature density salinity and pressure in the complex ocean environment which creates the lens effect Many oceanic processes such as currents tides eddies circulating translating regions of water and internal waves the wave like structure of the oceanic density variability contribute in turn to the changes in sound speed The net effect of the ocean lens is to trap and guide sound waves in a channel created by the lens The trapped sound can then propagate thousands of miles in this oceanic waveguide In addition to the propagation in the interior of the ocean sound can propagate into and back out of the ocean bottom as well as scatter from the ocean surface Just as the sound produced by a loudspeaker in a room is affected by the walls of the room so the ocean boundaries and the material properties below the ocean bottom are essential ingredients in the problem Leveled Text-Dependent Question

Stems: Science Melissa Edmonds,Jodene Smith,2017-02-01 Help develop kindergarten through twelfth grade students critical thinking and comprehension skills with Leveled Text Dependent Question Stems Science This book includes a variety of high interest science texts as well as specific text dependent questions that are provided at four different levels to help teachers differentiate and meet the needs of all students With this easy to use resource teachers will learn strategies to effectively guide students in analyzing informational text to build their comprehension skills and use evidence to justify their responses **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy,1992

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