

CHAPTER 24: The Wave Nature of Light

Answers to Questions

1. Huygens' principle applies both to sound waves and water waves. Huygens' principle applies to all waves that form a wave crest. Both sounds and water waves can be represented in this way.
2. A piece of evidence that light is energy is that you can focus the light from the Sun with a magnifying glass on to a sheet of paper and burn a hole in it. You have added so much energy to the paper that its temperature rises to the point where it ignites.
3. There are certain situations where describing light as rays works well (for example, lenses) and there are other situations where describing light as waves works well (for example, diffraction). Actually, the ray model doesn't work at all when describing diffraction. Thus, there are always limitations to the "models" we use to describe nature and we need to realize what these are.
4. The main reason that we can hear sounds around corners, but not see around corners, is diffraction. Sound waves have very long wavelengths when compared to light waves, which makes diffraction effects much more obvious. Diffraction effects are very noticeable once the size of the object that the wave is diffracting around is about the same size as the wavelength of the wave. The wavelength of sound is on the order of 1 m, while the wavelength of light is on the order of $0.1\ \mu\text{m}$. A secondary reason is reflection. Sounds waves reflect off of walls very well in a specular manner, and so can bounce around corners, but light reflects off of the walls in a very diffuse manner.
5. The wavelength of light in a medium such as water is decreased when compared to the wavelength in air. Thus, $d \sin \theta = m\lambda$ says that θ is decreased for a particular m and d . This means that the bright spots on the screen are more closely packed together in water than in air.
6. As red light is switched to blue light, the wavelength of the light is decreased. Thus, $d \sin \theta = m\lambda$ says that θ is decreased for a particular m and d . This means that the bright spots on the screen are more closely packed together with blue light than with red light.
7. Destructive interference occurs when the path lengths of two rays of light from the same source differ by odd half-integers of the wavelength ($\lambda/2$, $3\lambda/2$, $5\lambda/2$, $(m + \frac{1}{2})\lambda$, etc.). Under these conditions, the wave crests from one ray match up with the wave troughs from the other ray and cancellation occurs (destructive interference).
8. One reason was that the double-slit experiment allowed scientists to measure an actual wavelength, which was something that could not be done at the time with diffraction observations. Another reason was that using a particle model, you could explain diffraction in a qualitative way by talking about the particles bouncing off the edges of the diffracting object or the two edges of a single slit. When a second slit is added, the particle model had a much more difficult time explaining why there are now dark spots where the particles used to be able to strike with only one slit open.
9. Similarities between doing a double-slit experiment with sound and light: the sources must be coherent for the interference pattern to be observed; they both produce a pattern of high and low intensity at some distance away from the double slit (bright and dark for the light and loud and quiet for the sound); they both work best with a single-frequency source. Differences between doing a double-slit experiment with

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The Nature of Light Chandra Roychoudhuri, A.F. Kracklauer, Kathy Creath, 2017-12-19 Focusing on the unresolved debate between Newton and Huygens from 300 years ago The Nature of Light What is a Photon discusses the reality behind enigmatic photons It explores the fundamental issues pertaining to light that still exist today Gathering contributions from globally recognized specialists in electrodynamics and quantum optics the book begins by clearly presenting the mainstream view of the nature of light and photons It then provides a new and challenging scientific epistemology that explains how to overcome the prevailing paradoxes and confusions arising from the accepted definition of a photon as a monochromatic Fourier mode of the vacuum The book concludes with an array of experiments that demonstrate the innovative thinking needed to examine the wave particle duality of photons Looking at photons from both mainstream and out of box viewpoints this volume is sure to inspire the next generation of quantum optics scientists and engineers to go beyond the Copenhagen interpretation and formulate new conceptual ideas about light matter interactions and substantiate them through inventive applications

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Discovering The Nature Of Light: The Science And The Story Norval Fortson, 2022-04-11 This book is a science text about light for the general reader it is also an adventure story and a detective story revealing how the secrets of light were uncovered Readers can share in the thrill of each discovery and learn about some of the myriad applications opened up by these fascinating discoveries including the telescope fiber optics the laser and even the recent optical detection of gravitational waves from space With Professor Fortson distinguished experimental physicist as your tour guide follow the journey from the 17th century when Descartes first calculated the size of the rainbow to the 20th century when the quantum theory of light was born Learn how Huygens Newton Planck Einstein and many other great scientists solved one mystery after another from the reason underlying the law of refraction to the puzzle of the photoelectric effect The journey ends with the solution to the most challenging mystery of all that light is both a wave and a particle a fascinating finale

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About a quarter of the questions can be answered with arithmetic and many of the rest require only precalculus But regardless of math background readers will learn from the informal descriptions of the problems and gain a new appreciation of the beauty of nature and the mathematics that lies behind it

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Mechanics of Lorentz Transformations The solutions are generally very detailed and hence they are supposed to provide some sort of revision for the subject topic

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