

Introduction: The **pitch** of a sound, or how shrill or deep it is, is related to the **frequency** of the sound waves. The greater the number of sound waves passing by a point each second is, the higher the frequency and the pitch will be. The unit of frequency is the *hertz* (Hz).

Question: What causes the Doppler shift?

The reason that the doppler shifts is because the change of on how the car moves.

1. **Observe:** With the car's velocity (v_{source}) set to 0 m/s, click **Play**. Notice the sound waves moving away from the car in all directions.

A. Increase the frequency of the sound waves by moving the f_{source} slider to the right.

How does this affect the spacing of the waves?

The effect on the spacing of the wave is affected because the car still and its not moving so the waves are just moving away.

When the wavelength of the waves is short, the sound will be high in pitch.

B. Now decrease the frequency by moving the f_{source} slider all the way to the left.

How does this affect the spacing of the waves?

The spacing of the waves are now farther apart because I lowered the source. And its creating less waves.

Sound waves that are spaced far apart will produce a lower, deeper pitch.

2. **Measure:** Click **Reset**. Set the frequency (f_{source}) to 1000 Hz. Change the velocity of the sound source (v_{source}) to 200 m/s. (The car is now an airplane.) At upper right, turn on the **Observed frequency (Hz)** checkbox.

Drag the observer onto the road. Click **Play**, and then click **Pause** when the sound waves first reach the observer.

A. What is the frequency of sound waves in front of the plane?

The frequency is 2427.9

B. Click **Play**, and then click **Pause** just after the plane has passed the observer.

C. What is the frequency of sound waves behind the plane?

The frequency of the plan behind is 629.8

3. **Summarize:** Based on what you have learned, how will the sound that the observer hears change as the airplane passes by? Explain your answer.

From what I learned I think that they way that the sound on what the absever hears is going change as the airplane passes because it increases.

Doppler Shift Lecture Tutorial Answers

**American Association of Physics
Teachers**



Doppler Shift Lecture Tutorial Answers:

Lecture Tutorials for Introductory Astronomy Edward E. Prather, Timothy F. Slater, Jeffrey P. Adams, 2008 Funded by the National Science Foundation Lecture Tutorials for Introductory Astronomy is designed to help make large lecture format courses more interactive with easy to implement student activities that can be integrated into existing course structures The Second Edition of the Lecture Tutorials for Introductory Astronomy contains nine new activities that focus on planetary science system related topics and the interactions of Light and matter These new activities have been created using the same rigorous class test development process that was used for the highly successful first edition Each of the 38 Lecture Tutorials presented in a classroom ready format challenges students with a series of carefully designed questions that spark classroom discussion engage students in critical reasoning and require no equipment The Night Sky Position Motion Seasonal Stars Solar vs Sidereal Day Ecliptic Star Charts Fundamentals of Astronomy Kepler's 2nd Law Kepler's 3rd Law Newton's Laws and Gravity Apparent and Absolute Magnitudes of Stars The Parsec Parallax and Distance Spectroscopic Parallax Nature of Light in Astronomy The Electromagnetic EM Spectrum of Light Telescopes and Earth's Atmosphere Luminosity Temperature and Size Blackbody Radiation Types of Spectra Light and Atoms Analyzing Spectra Doppler Shift Our Solar System The Cause of Moon Phases Predicting Moon Phases Path of Sun Seasons Observing Retrograde Motion Earth's Changing Surface Temperature and Formation of Our Solar System Sun Size Stars Galaxies and Beyond H R Diagram Star Formation and Lifetimes Binary Stars The Motion of Extrasolar Planets Stellar Evolution Milky Way Scales Galaxy Classification Looking at Distant Objects Expansion of the Universe For all readers interested in astronomy **Astronomy Media Workbook for The Cosmic Perspective, The Essential Cosmic Perspective** Michael C. LoPresto, 2005 Book includes CD and Student Access Kit for the Astronomy Place Announcer American Association of Physics Teachers, 2003 Biology/science Materials Carolina Biological Supply Company, 1991 **Instrumentation Technology**, 1971 *The Mathematical Gazette*, 1954 *Technology in Education and Training*, 1984 *American Journal of Physics*, 1997 **The Multimedia and CD-ROM Directory**, 1998 **The Software Encyclopedia**, 1988 **Medical & Biological Engineering & Computing**, 1977 This journal of the International Federation for Medical Biological Engineering contains technical papers on biomechanics biomedical engineering clinical engineering computing and data processing modelling instrumentation medical physics and imaging physiological measurement rehabilitation engineering and transducers and electrodes **The Doppler Effect** Thomas Perrott Gill, 1965 *A New Doppler Effect* Florian Ion Petrescu, 2012 The Doppler effect or Doppler shift named after Austrian physicist Christian Doppler who proposed it in 1842 in Prague is the change in frequency of a wave for an observer moving relative to the source of the wave It is commonly heard when a vehicle sounding a siren or horn approaches passes and recedes from an observer The received frequency is higher compared to the emitted frequency during the approach it is identical at the instant of passing by and it is lower during the recession The relative changes in frequency

can be explained as follows When the source of the waves is moving toward the observer each successive wave crest is emitted from a position closer to the observer than the previous wave Therefore each wave takes slightly less time to reach the observer than the previous wave Therefore the time between the arrival of successive wave crests at the observer is reduced causing an increase in the frequency While they are travelling the distance between successive wave fronts is reduced so the waves bunch together Conversely if the source of waves is moving away from the observer each wave is emitted from a position farther from the observer than the previous wave so the arrival time between successive waves is increased reducing the frequency The distance between successive wave fronts is increased so the waves spread out For waves that propagate in a medium such as sound waves the velocity of the observer and of the source is relative to the medium in which the waves are transmitted The total Doppler Effect may therefore result from motion of the source motion of the observer or motion of the medium Each of these effects is analyzed separately For waves which do not require a medium such as light or gravity in general relativity only the relative difference in velocity between the observer and the source needs to be considered

The Laser Doppler Technique L. E. Drain,1980 Principles of Doppler and Color Doppler Imaging Rainer Haerten,Michael Mück-Weymann,1994-09-06 Rainer Haerten Michael Mück Weymann Principles of Doppler and Color Doppler Imaging Due to the need to bridge the gap between haemodynamic questions and the technical means to answer them this book discusses the fundamentals of Doppler and Color Doppler Sonography It includes a brief outline of vascular haemodynamics the physical and technical principles typical physiological findings as well as a survey of the most frequently used evaluation procedures in vascular diagnosis Numerous illustrations and examples of ultrasound images are included to assist in the understanding of Doppler and Color Doppler applications A Doppler Shift of Coherent Light Using the Kerr Cell Ernest Linwood Burdette,1968

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