

Doppler Shift (2 pages)

<https://www.khanacademy/science/sound-and-vibrations/a/doppler-shift/a/doppler-shift-1>

Click the **PAUSE** button. **REPEAT** the demonstration.
 Explain what is happening and why.
 What is the result?



1. What is the result of this?

2. Click **Play**. **PAUSE** and observe the sound waves arriving from the moving car.

3. Click **Pause**. **PAUSE** and compare the sound waves in front of the car to the sound waves behind the car.

4. Click the **Pause** button to freeze the simulation. Observe the sound waves in front of the car and behind the car.

5. Click the **Pause** button. Observe the sound waves in front of the car and behind the car.

Source (Hz)	Wavelength (m) in air (340 m/s)	Wavelength (m) in water (1500 m/s)
100		
200		
300		

6. Why do you think the wavelength in water is longer than the wavelength in air?



7. Explain the Doppler effect. What is the result of the Doppler effect? What is the result of the Doppler effect?

8. The Doppler effect is used to measure the speed of objects. Explain how it is used.

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EW Minium



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The Pearson Guide to the Central Police Forces (Assistant Commandants) Examination, 2/e (New Edition) Thorpe, 2010-09 **The Software Encyclopedia**, 1986 **Millimeter Wave Wireless Communications** Theodore S. Rappaport, Robert W. Heath Jr., Robert C. Daniels, James N. Murdock, 2014-09-09

The Definitive Comprehensive Guide to Cutting Edge Millimeter Wave Wireless Design This is a great book on mmWave systems that covers many aspects of the technology targeted for beginners all the way to the advanced users The authors are some of the most credible scholars I know of who are well respected by the industry I highly recommend studying this book in detail Ali Sadri Ph D Sr Director Intel Corporation MCG mmWave Standards and Advanced Technologies Millimeter wave mmWave is today's breakthrough frontier for emerging wireless mobile cellular networks wireless local area networks personal area networks and vehicular communications In the near future mmWave applications devices and networks will change our world In Millimeter Wave Wireless Communications four of the field's pioneers including Theodore S Rappaport Robert W Heath Robert C Daniels and James N Murdock draw on their vast experience to empower engineers at all levels to succeed with mmWave They deliver fundamental end to end coverage of all aspects of future mmWave wireless communications systems The authors explain new multi Gigabit per second products and applications mmWave signal propagation analog and digital circuit design mmWave antenna designs and current and emerging wireless standards They cover comprehensive mmWave wireless design issues for 60 GHz and other mmWave bands from channel to antenna to receiver introducing emerging design techniques that will be invaluable for research engineers in both industry and academia Topics include Digital communication baseband signal channel models modulation equalization error control coding multiple input multiple output MIMO principles and hardware architectures Radio wave propagation characteristics indoor and outdoor channel models and beam combining Antennas antenna arrays including on chip and in package antennas fabrication and packaging Analog circuit design mmWave transistors fabrication and transceiver design approaches Baseband circuit design multi gigabit per second high fidelity DAC and ADC converters Physical layer algorithmic choices design considerations and impairment solutions and how to overcome clipping quantization and nonlinearity Higher layer design beam adaptation protocols relaying multimedia transmission and multiband considerations 60 GHz standardization IEEE 802 15 3c for WPAN Wireless HD ECMA 387 IEEE 802 11ad Wireless Gigabit Alliance WiGig **Cumulated Index Medicus**, 1989 Scientific and Technical Aerospace Reports, 1989

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