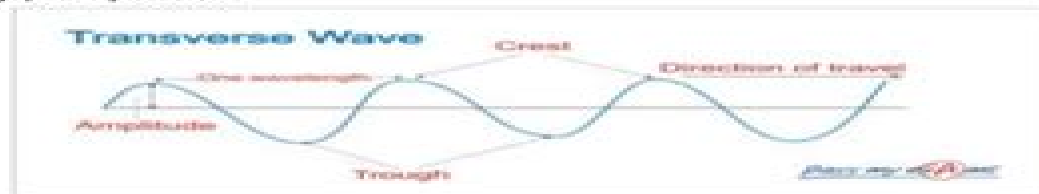


## Waves Study Guide

### Characteristics of Waves:

- Know how waves are created (what causes them?): **Waves are created by vibrations**
- Know what a medium is and be able to give examples. **A medium is a material that a wave can travel through. Mediums can be solid (rope, slinky, people), liquid (water) or gas (air). \*\*Space is NOT a medium it is a vacuum\*\***
- Compare and contrast mechanical waves and electromagnetic waves and give examples of each. Be sure to include how they are similar as well as different!!
  - **Mechanical waves NEED a medium to travel ex. Sound.**
  - **Electromagnetic waves DO NOT NEED a medium to travel but they can ex. Light.**
  - **Both mechanical and electromagnetic waves carry energy.**
- Compare and contrast transverse waves and longitudinal waves and give examples of each. Be sure to include how they are similar as well as different.
  - Be able to explain how transverse waves transfer energy compared to the movement of the medium. **Transverse waves transfer energy perpendicular to the wave's medium. The medium travels up and down and the energy travels across. Examples are electromagnetic waves (light, xray, gama, radio, infrared, UV, microwaves)**
  - Be able to explain how longitudinal waves transfer energy compared to the movement of the medium. **Longitudinal waves transfer energy parallel to the wave's medium. The medium moves side to side and the energy moves across. Example is sound.**
- Be able to label the following parts on a transverse wave: wavelength, amplitude, crest, trough, rest position.



- Be able to label the following parts on a longitudinal wave: rarefaction, compression, and wavelength.



# Vibrations And Waves Study Guide

**John D. Cutnell, Kenneth W. Johnson**



## **Vibrations And Waves Study Guide:**

*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

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