

## CHAPTER 15

### WAVES

The disturbances which move without the actual physical transfer or flow of matter as a whole, are called waves. In a wave, information and energy, in the form of signals, propagate from one point to another but material object moves during the propagation.

#### *Types of waves*

1. **Mechanical waves** - These waves are governed by Newton's laws and can exist only within a material medium, such as air, water and rock. Eg. Sound waves, water waves, etc.
2. **Electromagnetic waves** - They travel through vacuum at the same speed of light Eq.  
Visible, UV, IR, radiowaves, etc.
3. **Matter waves** - They are associated with moving electrons, protons, neutrons and other fundamental particles.

#### *Transverse and longitudinal waves*

Mechanical waves can be transverse or longitudinal.

#### *Difference between transverse and longitudinal waves*

##### *Transverse waves*

1. Transverse waves are those in which particles of the medium oscillate in a direction perpendicular to the wave motion.
2. Propagate in the form of crest and trough.

↳

dcrest-

##### *Longitudinal waves*

Longitudinal waves are those in which particles of the medium oscillate in a direction parallel to the wave motion.

Propagate in the form of compressions and rarefactions

# Chapter 15 Physics Study Guide

**Bo Lou**



## Chapter 15 Physics Study Guide:

**Fundamentals of Physics, Study Guide** Stanley A. Williams, Kenneth Brownstein, Thomas Marcella, 1988-10-18 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters

*Study Guide with ActivPhysics* Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999     **Physics, Study Guide** Sharon Ferrett, 1994-10     **Student Study Guide with Programmed Problems to Accompany Fundamentals of Physics & Physics, Parts I & II** Stanley A. Williams, Kenneth Brownstein, Robert Gray, 1974     **Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers** John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions     **Student Study Guide & Selected Solutions Manual** Frank L. H Wolfs, 2008     An Introduction to Physics Harvard Project Physics, 1968     **Study Guide to Accompany Physics : Principles and Insights** Ira Maximilian Freeman, 1968     **Shipman Phys Sci 6e Study Guide** James T. Shipman, Jerry D. Wilson, 1990     **Stress, Strain, and Structural Dynamics** Bingen Yang, 2022-09-13 Stress Strain and Structural Dynamics An Interactive Handbook of Formulas Solutions and MATLAB Toolboxes Second Edition is the definitive reference to statics and dynamics of solids and structures including mechanics of materials structural mechanics elasticity rigid body dynamics vibrations structural dynamics and structural controls The book integrates the development of fundamental theories formulas and mathematical models with user friendly interactive computer programs that are written in MATLAB This unique merger of technical reference and interactive computing provides instant solutions to a variety of engineering problems and in depth exploration of the physics of deformation stress and motion by analysis simulation graphics and animation Combines knowledge of solid mechanics with relevant mathematical physics offering viable solution schemes Covers new topics such as static analysis of space trusses and frames vibration analysis of plane trusses and frames transfer function formulation of vibrating systems and more Empowers readers to better integrate and understand the physical principles of classical mechanics the applied mathematics of solid mechanics and computer methods Includes a companion website that features

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