

## Wave properties

**Vocab:**

**Crest** - Highest part of the wave (yellow)

**Trough** - Lowest part of the wave, opposite of the crest (purple)

**Amplitude** (A, power) - maximum displacement, how much energy a wave can carry (orange)

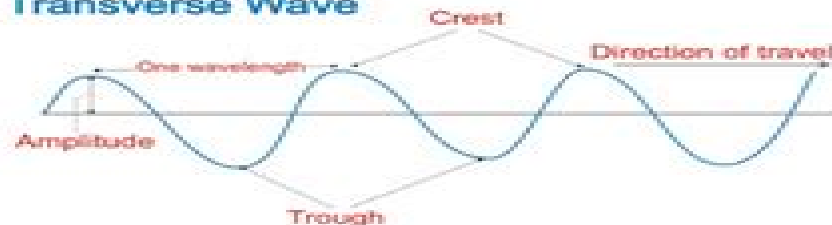
**Wavelength** (represented by lambda,  $\lambda$ ) - distance of one entire oscillation, from crest to crest, from trough to trough, or from equilibrium to equilibrium (green)

**Equilibrium position** - the horizontal line in the middle of the wave (black)



**Transverse wave** - a transverse wave is a wave whose oscillations are perpendicular to the direction of the wave's advance.

## Transverse Wave



**Longitudinal wave** - a longitudinal is a wave in which the vibration of the medium is parallel to the direction the wave travels and displacement of the medium is in the same direction of the wave propagation.



**Frequency** - frequency refers to the number of waves that pass a fixed point in unit time. It also describes the number of cycles or vibrations undergone during one unit of time by a body in periodic motion.

# Study Guide Wave Properties

**Ido Dubrawsky**



## **Study Guide Wave Properties:**

Study Guide for Physics in the Modern World 2E Jerry Marion, 2012-12-02 Study Guide for Physics in the Modern World 2E provides information pertinent to the fundamental concepts in physics This book presents a list of concepts definitions and equations with various supplementary exercises for the readers Comprised of 21 chapters this book starts with an overview of the standard units of measure for length time mass energy force pressure and density This text then provides the meaning of various terms in physics including atom molecule element and compound Other chapters explore the composition and behavior of all ordinary matter in which it depends on the four basic units including electrons protons neutrons and photons This book discusses as well the method used for converting the units of physical quantities from one system of measurement to another The final chapter deals with the various applications of radiation in biological investigations as well as in medical diagnostics and therapeutics This book is intended for students enrolled in introductory physics courses

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Hedrick, Paul R. Wagner, 2016-06-24 Gain a firm foundation for sonography practice Corresponding to the chapters in Hedrick's Technology for Diagnostic Sonography this study guide focuses on basic concepts to help you master sonography physics and instrumentation It includes laboratory exercises designed to teach you how to operate a scanner and comprehensive review questions allow you to assess your knowledge Not only will you learn the theoretical knowledge that is the basis for ultrasound scanning but also the practical skills necessary for clinical practice Laboratory exercises teach you the function of operator controls and how to optimize image quality and practice ALARA and include step by step instructions for scanner operation for hands on application and practice 250 review questions help you assess your understanding of sonography physics and instrumentation and identify areas of knowledge that may need further study Key Points at the beginning of each chapter emphasize the most important sonography principles that you need to understand and apply

Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2 Stanley A.

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