

1-D Waves, Worksheet 5

Key

1. The illustration below shows a series of transverse waves. Label each part in the space provided.

- crest
- wavelength
- amplitude
- trough
- amplitude
- wavelength
- equilibrium position



Fill in the blanks:

- Waves **do** transfer energy from one place to another, they **do not** transfer matter.
- The distance from one crest (or trough) to the next is the wavelength.
- The highest point on a transverse wave is the crest while the lowest part is the trough.
- The amplitude is the height of the wave.
- Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.



1 1/2



1



2 1/2



1/2

- Which of the above has the biggest amplitude? A
- Which of the above has the shortest wavelength? C
- Which of the above has the longest wavelength? D

7. Express in words and mathematically the relationship between

- period and frequency: *The period is inversely proportional to the frequency.* $T \propto \frac{1}{f}$ or $T = \frac{1}{f}$
- wavelength and frequency: *The wavelength is inversely proportional to the frequency.*

$$\lambda \propto \frac{1}{f} \text{ or } \lambda = \frac{v}{f}$$

- wavelength and period: *The wavelength is directly proportional to the period.*

$$\lambda \propto T \text{ or } \lambda = vT$$

8. Consider a wave generator that produces 10 pulses per second. The speed of the waves is 300 cm/s:

- What is the wavelength of the waves?

$$10 \text{ pulses per second is a frequency of } 10 \text{ Hz. } \lambda = \frac{v}{f} = \frac{300 \text{ cm/s}}{10 \frac{1}{s}} = 30.0 \text{ cm}$$

- What happens to the wavelength if the frequency of pulses is increased?

Since they are inversely proportional, if the frequency is increased, the wavelength decreases.

Answers To Waves 33

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Answers To Waves 33:

Waves And Rays In Seismology: Answers To Unasked Questions (Third Edition) Michael A Slawinski, 2020-11-20

This is a book on seismology dealing with advanced aspects of wave propagation in complex media. It can also be viewed as a book on mathematical modelling wherein the accuracy of describing seismic phenomena exemplifies the modelling itself. The book gives an insight into the power of abstractness by applying the same mathematical methods and strategies to solve a variety of different physical problems. This book covers a broad range of topics in an advanced yet accessible manner. Each chapter is accompanied by a number of solved exercises which render the book convenient for a lecturer and facilitate its use for an independent study. The details of mathematical methods are discussed in the appendices which form a substantial portion of the book.

Waves And Rays In Seismology: Answers To Unasked Questions (Second Edition) Michael A Slawinski, 2018-05-04. In summary, Professor Slawinski has written an engaging volume covering an unfamiliar topic in a highly accessible fashion. Non-specialists will gain a significant appreciation of the unique complexities associated with seismology. Contemporary Physics. The author dedicates this book to readers who are concerned with finding out the status of concepts, statements and hypotheses and with clarifying and rearranging them in a logical order. It is thus not intended to teach tools and techniques of the trade but to discuss the foundations on which seismology and in a larger sense the theory of wave propagation in solids is built. A key question is why and to what degree can a theory developed for an elastic continuum be used to investigate the propagation of waves in the Earth which is neither a continuum nor fully elastic. But the scrutiny of the foundations goes much deeper: material symmetry, effective tensors, equivalent media, the influence or rather the lack thereof of gravitational and thermal effects and the rotation of the Earth are discussed ab initio. The variational principles of Fermat and Hamilton and their consequences for the propagation of elastic waves, causality, Noether's theorem and its consequences on conservation of energy and conservation of linear momentum are but a few topics that are investigated in the process to establish seismology as a science and to investigate its relation to subjects like realism and empiricism in natural sciences, to the nature of explanations and predictions and to experimental verification and refutation. In the second edition, new sections, figures, examples, exercises and remarks are added. Most importantly, however, four new appendices of about one hundred pages are included which can serve as a self-contained continuum mechanics course on finite elasticity. Also, they broaden the scope of elasticity theory commonly considered in seismology.

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Physiology Question-Answer Mr. Rohit Manglik, 2024-07-30 A student friendly question answer guide that covers core physiology topics through concise answers and explanations ideal for medical and paramedical exam preparation

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somehow reflect this symmetry And how would periodicity harmonize with symmetry Probing into these questions leads from dynamics to topology algebra singularity theory and to many applications Within a global approach the emphasis is on periodic motions far from equilibrium Mathematical methods include bifurcation theory transversality theory and generic approximations A new homotopy invariant is designed to study the global interdependence of symmetric periodic motions Besides mathematical techniques the book contains 5 largely nontechnical chapters The first three outline the main questions results and methods A detailed discussion pursues theoretical consequences and open problems Results are illustrated by a variety of applications including coupled oscillators and rotating waves these links to such disciplines as theoretical biology chemistry fluid dynamics physics and their engineering counterparts make the book directly accessible to a wider audience

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Solitons P. G. Drazin, R. S. Johnson, 1989-02-09 This textbook is an introduction to the theory of solitons in the physical sciences

Non-diffracting Waves Hugo E. Hernández-Figueroa, Michel Zamboni-Rached, Erasmo Recami, 2013-09-25 This continuation and extension of the successful book *Localized Waves* by the same editors brings together leading researchers in non diffractive waves to cover the most important results in their field and as such is the first to present the current state The well balanced presentation of theory and experiments guides readers through the background of different types of non diffractive waves their generation propagation and possible applications The authors include a historical account of the development of the field and cover different types of non diffractive waves including Airy waves and realistic finite energy solutions suitable for experimental realization Apart from basic research the concepts explained here have promising applications in a wide range of technologies from wireless communication to acoustics and bio medical imaging

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