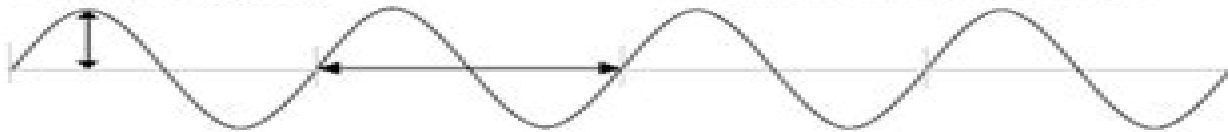


Wave Worksheet

One full wave (cycle)

Wave train – two or more waves



Amplitude – measures the energy of a transverse wave

- measured from the resting position to the top of a crest or the bottom of a trough (see vertical arrow)

Wavelength – length of a single wave cycle (horizontal arrow double sided arrow)

Frequency – # of waves that pass a point in a given amount of time

Speed = wavelength x frequency

The time from the beginning to the end of the wave train in each situation is 1 second.

Wave 1



- a) How many waves are there in this wave train? _____
- b) Wavelength _____ cm c) Amplitude _____ cm d) frequency _____ Hz e) speed _____ cm/s

Wave 2



- a) How many waves are there in this wave train? _____
- b) Wavelength _____ cm c) Amplitude _____ cm d) frequency _____ Hz e.) speed _____ cm/s

Problems:

1. What is the wavelength of a sound wave with a frequency of 50 Hz? The speed of sound is 342 m/s.
2. A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel?

Wave Characteristics Worksheet Conceptual Physics Answers

Dudley H. Towne



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Current Index to Journals in Education, 1990 *Waves* Rumi Michael Leigh, 2023-05-24 *Waves Things You Should Know* Questions and Answers explains the principles of wave motion through a question and answer format The text covers frequency wavelength amplitude velocity and energy transfer with worked examples to show how these properties are applied in physics Topics include mechanical waves sound waves light waves and electromagnetic waves with attention to how they propagate and interact Exercises move from basic definitions to more advanced problems including calculations of wave speed period and phase difference The book also examines reflection refraction interference and resonance connecting theoretical concepts with problem solving practice This book will interest students physics learners and exam candidates who want to study waves and their role in science

Wave Motion J. Billingham, A. C. King, 2001-01-22 Waves are a ubiquitous and important feature of the physical world and throughout history it has been a major challenge to understand them They can propagate on the surfaces of solids and of fluids chemical waves control the beating of your heart traffic jams move in waves down lanes crowded with vehicles This introduction to the mathematics of wave phenomena is aimed at advanced undergraduate courses on waves for mathematicians physicists or engineers Some more advanced material on both linear and nonlinear waves is also included thus making the book suitable for beginning graduate courses The authors assume some familiarity with partial differential equations integral transforms and asymptotic expansions as well as an acquaintance with fluid mechanics elasticity and electromagnetism The context and physics that underlie the mathematics is clearly explained at the beginning of each chapter Worked examples and exercises are supplied throughout with solutions available to teachers

Waves in Action : Characteristics of Waves | Energy, Force and Motion Grade 3 | Children's Physics Books Baby Professor, 2021-11-01 Read to learn about the characteristics of waves This book will discuss crest trough and length It will also include information on the many types of waves such as light waves sound waves infrared waves and ultraviolet waves Most importantly read about the parts of a wave and how parts work together Buy a copy of this book to read about the waves in action today

An Introduction to the Mathematical Theory of Waves Roger Knobel, 2000 This book is based on an undergraduate course taught at the IAS Park City Mathematics Institute Utah on linear and nonlinear waves The first part of the text overviews the concept of a wave describes one dimensional waves using functions of two variables provides an introduction to partial differential equations and discusses computer aided visualization techniques The second part of the book discusses traveling waves leading to a description of solitary waves and soliton solutions of the Klein Gordon and Korteweg de Vries equations The wave equation is derived to model the small vibrations of a taut string and solutions are constructed via d'Alembert's formula and Fourier series The last part of the book discusses waves arising from conservation laws After deriving and discussing the scalar conservation law its solution is described using the method of characteristics leading to the formation of shock and rarefaction waves Applications of these concepts are then given for models of traffic

flow The intent of this book is to create a text suitable for independent study by undergraduate students in mathematics engineering and science The content of the book is meant to be self contained requiring no special reference material Access to computer software such as MathematicaR MATLABR or MapleR is recommended but not necessary Scripts for MATLAB applications will be available via the Web Exercises are given within the text to allow further practice with selected topics

Characteristics and Behaviors of Waves April Isaacs,2005 Defines waves and terms related to waves and describes wave properties Physics of Waves William Cronk Elmore,Mark A. Heald,1969 Problems after each chapter

Wavefronts and Rays as Characteristics and Asymptotics Andrej Bena,Michael A. Slawinski,2011 This textbook incorporated with many illuminating examples and exercises is aimed at graduate students of physical sciences and engineering The purpose is to provide a background of physics and underlying mathematics for the concept of rays filling the gap between mathematics and physics textbooks for a coherent treatment of all topics The authors emphasis and extremely good presentation of the theory of characteristics which defines the rays accentuate the beauty and versatility of this theory To this end the rigour of the formulation by a pure mathematician s standards is downplayed to highlight the physical meaning and to make the subject accessible to a wider audience The authors describe in detail the theory of characteristics for different types of differential equations the applications to wave propagation in different types of media and the phenomena such as caustics

Physics of Nonlinear Waves Mitsuhiro Tanaka,2019-12-18 This is an introductory book about nonlinear waves It focuses on two properties that various different wave phenomena have in common the nonlinearity and dispersion and explains them in a style that is easy to understand for first time students Both of these properties have important effects on wave phenomena Nonlinearity for example makes the wave lean forward and leads to wave breaking or enables waves with different wavenumber and frequency to interact with each other and exchange their energies Dispersion for example sorts irregular waves containing various wavelengths into gentler wavetrains with almost uniform wavelengths as they propagate or cause a difference between the propagation speeds of the wave waveform and the wave energy Many phenomena are introduced and explained using water waves as an example but this is just a tool to make it easier to draw physical images Most of the phenomena introduced in this book are common to all nonlinear and dispersive waves This book focuses on understanding the physical aspects of wave phenomena and requires very little mathematical knowledge The necessary minimum knowledges about Fourier analysis perturbation method dimensional analysis the governing equations of water waves etc are provided in the text and appendices so even second or third year undergraduate students will be able to fully understand the contents of the book and enjoy the fan of nonlinear wave phenomena without relying on other books

Wave Properties Advanced Physics Project for Independent Learning,Dvanced Physics Project For Independent Learning Staff,1979 Wave Phenomena Dudley H. Towne,2014-05-05 Brilliantly written undergraduate level text emphasizes optics acoustics covers transverse waves on a string acoustic plane waves boundary value problems much more

Numerous problems half with solutions

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Levine,2012-12-02 [Unidirectional Wave Motions](#) provides a comprehensive discussion of the formulations and their consequent elaborations which have found demonstrable value in wave analysis The deliberate focus on unidirectional waves permits a relatively simple mathematical development without leaving significant gaps in methodology and capability The book is organized into three parts The first part deals with the particulars of individual wave equations the geometry or kinematics of wave forms and general matters bearing on the transport of energy and momentum as well as dispersion or frequency sensitivity The second part focuses on aspects of wave generation by localized and extended sources The third part examines the effects of interaction between specified primary waves and medium irregularities e g obstacles inclusions or local variations in the material parameters Information about these irregularities or scatterers ranging from microscopic to terrestrial scales may be gleaned through the attendant phenomena of reflection refraction and diffraction which are fundamental to wave theory

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Wave Motion and Wave Properties of Light

Fazlul Huq,1991 [Understanding Waves and Wave Motion](#) Randall McPartland,2014-12-15 Waves and Wave Motion are the keys to communication but they can also help us understand the movement of storms and of planets

Introduction to Wave Phenomena

Akira Hirose,Karl E. Lonngren,1985-04-02 New York Wiley c1985 **Introduction to the Physics of Waves** Tim Freearde,2012-11-08 Balancing concise mathematical analysis with the real world examples and practical applications that inspire students this textbook provides a clear and approachable introduction to the physics of waves The author shows through a broad approach how wave phenomena can be observed in a variety of physical situations and explains how their characteristics are linked to specific physical rules from Maxwell s equations to Newton s laws of motion Building on the logic and simple physics behind each phenomenon the book draws on everyday practical applications of wave phenomena ranging from electromagnetism to oceanography helping to engage

students and connect core theory with practice Mathematical derivations are kept brief and textual commentary provides a non mathematical perspective Optional sections provide more examples along with higher level analyses and discussion This textbook introduces the physics of wave phenomena in a refreshingly approachable way making it ideal for first and second year undergraduate students in the physical sciences *A Student's Guide to Waves* Daniel Fleisch, Laura Kinnaman, 2015-04-09 Written to complement course textbooks this book focuses on the topics that undergraduates in physics and engineering find most difficult

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