

Chapter 12: Wave properties

Knowledge organiser

Waves in air, fluids, and solids

Waves transfer energy from one place to another without transferring matter. Waves may be _____ or _____.

For waves in _____ and _____, it is the wave and not the substance that moves.

- When a light object is dropped into still water, it produces _____ (waves) on the water which _____, but neither the object nor the water moves with the ripples.
- When you speak, your voice has _____ making sound waves travel through the _____. The air itself does not travel away from your throat, otherwise a _____ would be created.



Mechanical waves require a _____ (a medium) to travel through.

Examples of mechanical waves include _____ waves, _____ waves, waves on _____ and ropes, and _____ waves produced by earthquakes.

When waves travel through a substance, the particles in the substance _____ (vibrate) and pass energy on to neighbouring particles.

Transverse waves

The oscillations of a transverse wave are _____ (at right angles) to the direction in which the waves transfer energy.

_____ are an example of transverse waves.



Longitudinal waves

The oscillations of a longitudinal wave are _____ to the direction in which the waves transfer energy.

Longitudinal waves cause particles in a substance to be _____ close together and _____ further apart, producing areas of _____ and _____ in the substance.

_____ in air are an example of longitudinal waves.



Wave motion is described by a number of properties.

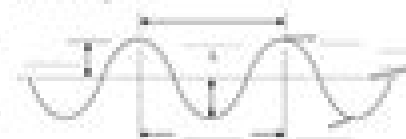
Property	Description	Unit
amplitude A		
frequency f		
period T		
wavelength λ		
wave speed v		

Properties of waves

Frequency and period are related by the equation:

$$\text{period } (s) = \frac{1}{\text{frequency } (Hz)} \quad T = \frac{1}{f}$$

Label the diagram.



All waves obey the wave equation:

$$\text{wave speed } (m/s) = \text{frequency } (Hz) \times \text{wavelength } (m) \quad v = f\lambda$$

When waves travel from one medium to another, their speed and wavelength may change but the frequency stays the same.

The speed of ripples on water can be slow enough to measure using a stopwatch and ruler, and applying the equation:

$$\text{speed } (m/s) = \frac{\text{distance}}{\text{time}}$$

The speed of sound in air can be measured by using a _____ to measure the time taken for a sound to travel a known distance, and applying the same equation.

Reflection of waves

When waves arrive at the boundary between two different substances, one or more of the following things can happen:

- _____ - the energy of the waves is transferred to the energy stores of the substance they travel into (for example, when food is heated in a microwave)
- _____ - the waves bounce back
- _____ - the waves change speed and direction as they cross the boundary
- _____ - the waves carry on moving once they've crossed the boundary, but may be reflected

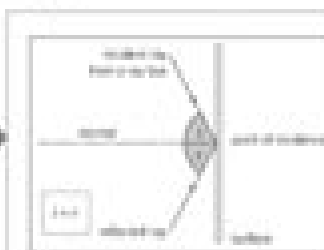
_____ can be used to show what happens when a wave is reflected at a surface.

To correctly draw a ray diagram for reflection:

1. use a _____ to draw all lines for the rays.
2. draw a single _____ on the rays to show the direction the wave is travelling.
3. draw a dashed line at _____ to the surface at the point of _____ (this line is normal to the surface).
4. label the normal, angle of incidence (____), and angle of reflection (____).

When reflection happens at a surface, the angle of incidence is always equal _____.

$$i = r$$



Key terms

Make sure you can write a definition for these key terms.

direction amplitude compression frequency incidence longitudinal mechanical wave oscillate period ray diagram reflection refraction transmission transverse wavelength wave speed

Murray Chapter Waves 12 Answers

H. G. Wells, Edgar Allan Poe, Mary Shelley, Jules Verne, Edwin A. Abbott, Jack London, Robert Louis Stevenson, George MacDonald, Henry Rider Haggard, William Hope Hodgson, Edward Bellamy, Mark Twain, Arthur Conan Doyle, Edgar Rice Burroughs, Francis Bacon, C. J. Cutcliffe Hyne, Margaret Cavendish, Jonathan Swift, William Morris, Samuel Butler, Edward Bulwer-Lytton, James Fenimore Cooper, Charlotte Perkins Gilman, Ayn Rand, Owen Gregory, Hugh

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Rey, August Derleth, Frederik Pohl, Kurt
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Francis Nowlan, Rokeya Sakhawat
Hossain, George Griffith, Edwin Lester**

**Arnold, John Jacob Astor, Gustavus W.
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Understand Physics: Teach Yourself Jim Breithaupt,2010-02-26 Understand Physics gives you a solid understanding of the key skills and ideas that run through the subject You will explore the important concepts of force and motion electricity light molecules matter and space and discover the frontiers of physics With numerous questions answers and worked examples throughout you will feel confident in approaching the science and applying your knowledge NOT GOT MUCH TIME One five and ten minute introductions to key principles to get you started AUTHOR INSIGHTS Lots of instant help with common problems and quick tips for success based on the author s many years of experience TEST YOURSELF Tests in the book and online to keep track of your progress EXTEND YOUR KNOWLEDGE Extra online articles at www.teachyourself.com to give you a richer understanding of physics FIVE THINGS TO REMEMBER Quick refreshers to help you remember the key facts TRY THIS Innovative exercises illustrate what you ve learnt and how to use it

Rosen's Emergency Medicine - Concepts and Clinical Practice E-Book Ron Walls,Robert Hockberger,Marianne Gausche-Hill,Timothy B. Erickson,Susan R.

Wilcox,2022-06-13 For nearly 40 years Rosen s Emergency Medicine has provided emergency physicians residents physician assistants and other emergency medicine practitioners with authoritative accessible and comprehensive information in this rapidly evolving field The fully revised 10th Edition delivers practical evidence based knowledge and specific recommendations from clinical experts in a clear precise format with focused writing current references and extensive use of

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Stranger Danger Donna Huston Murray, 2023-02-27 FINALIST National Indie Excellence Awards You won t be able to tear yourself away I love this series Lisa Regan international multi million copy bestselling author Longing for the closeness they had while she was recovering from Hodgkin s disease Lauren drives cross country to visit her father and his new wife Ana Getting mugged on their doorstep is worrisome Learning that Ana has inexplicably disappeared devastating Several young girls have also gone missing prompting the haunting memory of an abducted child Lauren was too late to save For her father s sake and her own the young ex cop would love to help any way she can Yet she has scarcely begun before an irate criminal starts to strike back This edgy third book in the Writer s Digest awarded Lauren Beck mystery crime thriller series can also stand alone If you like scrappy heroines nail biting suspense and twisted mysteries you ll love this white

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Omniscience Riddle becomes the key to understanding how the question is best stated and understood This book represents one person s effort to make sense of what is true and what only seems to be so Why is there something rather than nothing What is your potential role in the entirety of experience This foray into acosmism offers a path to the genuine understanding of both existence and reality Note the main text constitutes roughly two thirds of the total pages the remainder being mostly endnotes **Harper's Bazaar** ,1879 *The Electrical Review* ,1917 Christian Register and Boston Observer ,1926

The Ultimate SF Collection: 150 Classics Jules Verne,Mark Twain,Robert Louis Stevenson,James Fenimore Cooper,Edgar Allan Poe,William Hope Hodgson,George MacDonald,Percy Greg,Jack London,Arthur Conan Doyle,Edgar Rice Burroughs,Ernest Bramah,Jonathan Swift,Cleveland Moffett,William Morris,Anthony Trollope,Richard Jefferies,William Dean Howells,Ayn Rand,Samuel Butler,Milo Hastings,David Lindsay,Edward Everett Hale,John Jacob Astor,Edward Bellamy,Andre Norton,Murray Leinster,H. Beam Piper,Lester Del Rey,Charlotte Perkins Gilman,Edgar Wallace,Kurt Vonnegut,Frederik Pohl,Fritz Leiber,Irving E. Cox,Francis Bacon,Philip Francis Nowlan,Robert Cromie,Philip K. Dick,August Derleth,Richard Stockham,Abraham Merritt,Ignatius Donnelly,Owen Gregory,H. G. Wells,E. E. Smith,Stanley G. Weinbaum,E. M. Forster,Fred M. White,Garrett P. Serviss,Henry Rider Haggard,Mary Shelley,Edward Bulwer-Lytton,Rokeya Sakhawat Hossain,Edwin Lester Arnold,George Griffith,C. J. Cutcliffe Hyne,Edwin A. Abbott,Arthur Dudley Vinton,Gertrude Barrows Bennett,Hugh Benson,Margaret Cavendish,Gustavus W. Pope,2023-12-29 The Ultimate SF Collection 150 Classics offers a sweeping survey of speculative fiction s evolution presenting a diverse array of stories that collectively explore the limitless possibilities of science technology and human imagination This anthology spans the genre s birth to its golden age showcasing a rich tapestry of styles ranging from pioneering science fiction to visionary utopias and dystopias Works within this collection captivate with their exploration of societal norms ethical dilemmas and futuristic visions Notably selections within the anthology defy singular attribution highlighting the genre s collective innovation and its capacity to challenge and entertain Featuring contributions from an illustrious assembly of authors the anthology underscores the historical and cultural roots of science fiction From the poignant narratives of Mary Shelley and Jules Verne to the incisive critiques of Kurt Vonnegut and Philip K Dick these writers spanning various movements such as Romanticism Gothic and early modernism lend their voices to a genre forever intertwined with exploration and revolution The contributors bolstered by diverse cultural backdrops collectively enrich the anthology providing profound insights into not only speculative fiction but also the human condition across eras and societies This anthology is an indispensable guide for readers eager to traverse the breadth of speculative fiction in one comprehensive volume The Ultimate SF Collection invites readers to reflect on the intricate web of ideas that have fueled the evolution of the genre Its educational potency lies in the diverse perspectives and narrative techniques that provoke thought and foster dialogue among a mosaic of the most creative minds in literature Delve into this collection to embark on a journey through time space and the boundless realm of imagination *Sci-Fi Boxed Set: 160+*

Space Adventures, Lost Worlds, Dystopian Novels & Apocalyptic Tales Jules Verne, Mark Twain, Robert Louis Stevenson, James Fenimore Cooper, Edgar Allan Poe, William Hope Hodgson, George MacDonald, Percy Greg, Jack London, Arthur Conan Doyle, Edgar Rice Burroughs, Ernest Bramah, Jonathan Swift, Cleveland Moffett, William Morris, Anthony Trollope, Richard Jefferies, William Dean Howells, Ayn Rand, Samuel Butler, Milo Hastings, David Lindsay, Edward Everett Hale, John Jacob Astor, Edward Bellamy, Andre Norton, Murray Leinster, H. Beam Piper, Lester Del Rey, Charlotte Perkins Gilman, Edgar Wallace, Kurt Vonnegut, Frederik Pohl, Fritz Leiber, Irving E. Cox, Francis Bacon, Philip Francis Nowlan, Robert Cromie, Philip K. Dick, August Derleth, Richard Stockham, Abraham Merritt, Ignatius Donnelly, Owen Gregory, H. G. Wells, E. E. Smith, Stanley G. Weinbaum, E. M. Forster, Fred M. White, Garrett P. Serviss, Henry Rider Haggard, Mary Shelley, Edward Bulwer-Lytton, Rokeya Sakhawat Hossain, Edwin Lester Arnold, George Griffith, C. J. Cutcliffe Hyne, Edwin A. Abbott, Arthur Dudley Vinton, Gertrude Barrows Bennett, Hugh Benson, Margaret Cavendish, Gustavus W. Pope, 2023-12-26

Sci Fi Boxed Set 160 *Space Adventures Lost Worlds Dystopian Novels Apocalyptic Tales* is a sweeping anthology that traverses the expansive universe of speculative fiction. This collection encapsulates an era of imaginative exploration stretching from the early visions of futuristic societies to the gripping narratives of cosmic odyssey. It captures the essence of speculative storytelling weaving through diverse literary landscapes such as utopian vistas, alien encounters, and post-apocalyptic realms. The anthology is a trove of genre-defining stories showcasing the pioneering spirit and evocative narratives that have shaped science fiction. Standout pieces in this anthology exemplify the rich tapestry of styles and themes that transcend traditional boundaries. This collection gathers eminent voices from across the sci-fi genre, including pioneers like Mary Shelley, canonical figures such as H. G. Wells and Jules Verne, alongside modern innovators like Philip K. Dick and Kurt Vonnegut. The anthology reflects the historical evolution of science fiction, aligning with literary movements that questioned the nature of humanity and technology. Each author's unique perspective converges to offer a kaleidoscopic view of speculative fiction, enhancing our understanding of the human condition through the lens of science and imagination. The Sci-Fi Boxed Set offers readers an unparalleled opportunity to delve into the imaginative worlds of sci-fi's most revered authors. Its educational value lies not only in the timeless stories it contains but also in the dialogue it fosters between the varied voices within. It invites readers to explore a multiplicity of themes and styles within one volume, making it a must-have for enthusiasts and scholars alike. This anthology is more than just a collection; it's an invitation to traverse the boundaries of reality and imagination.

The Regime of Islands in International Law Hiran W. Jayewardene, 2021-09-27 **Paradise Past** Robert W. Kirk, 2012-11-07

In the 400 years from Magellan's entrance into Pacific waters to 1920, the lives of the people of the South Pacific were utterly transformed. Exotic diseases from Europe and America, particularly the worldwide influenza pandemic, were deadly for islanders. Ardent missionaries changed the belief systems and lives of nearly all Polynesians, Aborigines, and those Papuans and Melanesians living in areas accessible to westerners. By 1920, every island and atoll in the South Seas had been claimed.

as a colony or protectorate of a power such as Britain France or the United States Factors aiding this imperial sweep included European outposts such as Sydney advances in maritime technology the work of missionaries a desire to profit from the area s relatively sparse resources and international rivalry that led to the scramble for colonies The coming of westerners as this book points out was not entirely negative as head hunting cannibalism chronic warfare human sacrifice and other practices were diminished but whole cultures were irreversibly changed or even eradicated

SF UNIVERSE - The Ultimate Collection Jules Verne, Mark Twain, Robert Louis Stevenson, James Fenimore Cooper, Edgar Allan Poe, William Hope Hodgson, George MacDonald, Percy Greg, Jack London, Arthur Conan Doyle, Edgar Rice Burroughs, Ernest Bramah, Jonathan Swift, Cleveland Moffett, William Morris, Anthony Trollope, Richard Jefferies, William Dean Howells, Ayn Rand, Samuel Butler, Milo Hastings, David Lindsay, Edward Everett Hale, John Jacob Astor, Edward Bellamy, Andre Norton, Murray Leinster, H. Beam Piper, Lester Del Rey, Charlotte Perkins Gilman, Edgar Wallace, Kurt Vonnegut, Frederik Pohl, Fritz Leiber, Irving E. Cox, Francis Bacon, Philip Francis Nowlan, Robert Cromie, Philip K. Dick, August Derleth, Richard Stockham, Abraham Merritt, Ignatius Donnelly, Owen Gregory, H. G. Wells, E. E. Smith, Stanley G. Weinbaum, E. M. Forster, Fred M. White, Garrett P. Serviss, Henry Rider Haggard, Mary Shelley, Edward Bulwer-Lytton, Rokeya Sakhawat Hossain, Edwin Lester Arnold, George Griffith, C. J. Cutcliffe Hyne, Edwin A. Abbott, Arthur Dudley Vinton, Gertrude Barrows Bennett, Hugh Benson, Margaret Cavendish, Gustavus W. Pope, 2023-11-19

SF UNIVERSE The Ultimate Collection stands as a monumental anthology embracing a vast array of themes such as exploration the human condition and the endless possibilities of science and technology It unites a remarkable spectrum of literary styles from the pioneering works of Mary Shelley and H G Wells to the modern musings of Philip K Dick and Kurt Vonnegut Within its pages readers will find a rich tapestry of speculative thought ranging from the utopian visions of Edward Bellamy to the dystopian warnings of Ayn Rand showcasing the evolution of the genre and its profound impact on contemporary literature Notably the collection doesn't shy away from the obscure or the avant garde offering pieces that have defined and expanded the boundaries of the science fiction genre The authors represented in this anthology come from diverse backgrounds each contributing their unique voice to the grand choir of speculative fiction From the scientific romances of Jules Verne to the cosmic adventures of E E Doc Smith the collection spans over two centuries of literary history embodying key cultural and literary movements such as Romanticism Modernism and the Golden Age of Science Fiction These authors many of whom were pioneers in their own right have collectively influenced generations and helped to shape the trajectory of science fiction as a serious literary endeavor making it a reflective mirror of humanity s greatest hopes fears and philosophical inquiries SF UNIVERSE The Ultimate Collection is an indispensable treasure trove for enthusiasts and scholars alike presenting a unique opportunity to explore the myriad worlds of science fiction Readers are invited to embark on a journey through time and space to engage with the works of giants upon whose shoulders the genre stands This anthology does not merely offer stories it provides a panoramic vista of humanity s

greatest imaginative achievements encouraging a deeper understanding of our sociopolitical landscapes and the human psyche Whether a long standing aficionado or a curious newcomer to the genre this collection promises to enlighten entertain and inspire making it an essential addition to any literary library *Creativity, Technology & Education: Exploring their Convergence* Punya Mishra, Danah Henriksen, 2017-12-04 In this collection of beautifully written essays Mishra Henriksen and the Deep play Research Group challenge myths about technology and creativity debate time honored instructional practices and play with new ideas for schools to care for and nurture rather than constrain creativity These essays are provocative refreshing and insightful Dr Yong Zhao Foundation Distinguished Professor University of Kansas and Fellow Mitchell Institute for Health and Education Policy Victoria University Australia What is creativity Why is it important What does it look like across different disciplines and contexts What role does technology play if any in the creative process And finally what do creativity and technology have to do with education These are the questions that underlie the collection of articles in this book These essays provide a broad analytic frame for thinking about creativity technology and education and describe classroom examples as well as strategies for evaluating creative artifacts and creative environments All of these are grounded in specific examples from across a wide range of disciplines and contexts art mathematics engineering computer science graphic design architecture science to name just a few The final essays take a broader perspective on creativity and technology focusing both on our highly inter connected YouTube world but also possibilities for the future *Creativity Technology Education Exploring their Convergence* is a vital resource for educators and practitioners as they seek to incorporate creative work and thoughtful pedagogy in their personal and professional lives **Practical Cardiovascular Medicine** Elias B. Hanna, 2022-01-07 Providing a complete but succinct overview of the information cardiologists and cardiology trainees need to have at their fingertips *Practical Cardiovascular Medicine Second Edition* is an everyday primary guide to the specialty Provides cardiologists with a thorough and up to date review of cardiology from pathophysiology to practical evidence based management Ably synthesizes pathophysiology fundamentals and evidence based approaches to prepare a physician for a subspecialty career in cardiology Clinical chapters cover coronary artery disease heart failure arrhythmias valvular disorders pericardial disorders congenital heart disease and peripheral arterial disease Practical chapters address ECG coronary angiography catheterization techniques echocardiography hemodynamics and electrophysiological testing Includes over 730 figures key notes boxes references for further study and coverage of clinical trials Review questions help clarify topics and can be used for Board preparation over 650 questions in all The Second Edition has been comprehensively updated with the newest data and with both the American and European guidelines More specifically 20 clinical chapters have been rewritten and extensively revised Procedural chapters have been enhanced with additional concepts and illustrations particularly the hemodynamic and catheterization chapters Clinical questions have been revamped new questions have been added including a new 259 question section at the end of the book *Practical*

Cardiovascular Medicine Second Edition is an ideal reference for the resident fellow cardiologist and any professional treating patients with cardiovascular disease

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