
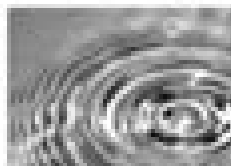


SAQ 6.8 Complete the table with the typical uses of different electromagnetic waves.

Radio	Television	Mobile Phones	Satellite TV
Remote Controls	Photography	Medical Images	
Killing Bacteria	Killing Cancer Cells	Sun Beds	

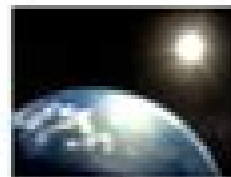
Type of Electromagnetic Wave	Typical Uses	Dangers 
Gamma Rays		Can ionise cells, causing cancer
X-rays		
Ultraviolet		Can cause sunburn and skin cancer
Visible Light		Can damage eyes if very bright
Infrared		Can burn skin and tissue
Microwaves		Can heat up tissue
Radio Waves		None

Some types of waves such as mechanical waves and sound waves need a medium (material) to travel through e.g. water waves travel through _____ and sound waves travel through _____.



Electromagnetic waves can travel through a vacuum because they do not need a medium.

We saw previously that infrared radiation (a type of _____ wave) is able to travel through a _____.



Frequency

Imagine looking at a transverse wave travelling towards you, a peak will reach you, then another one, then another one and so on. The number of peaks or complete cycles of the wave that reach you in one second is called the **frequency**.



Frequency is measured in unit called **hertz**, Hz, named after German physicist Heinrich Hertz (shown on the left). 1 Hz just means one cycle per second.

Unlike amplitude and wavelength we can't really draw the frequency of a wave, however, the frequency is related to wavelength.

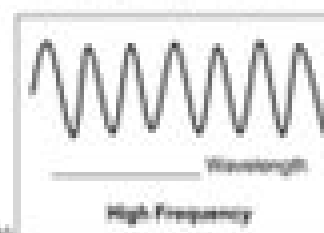
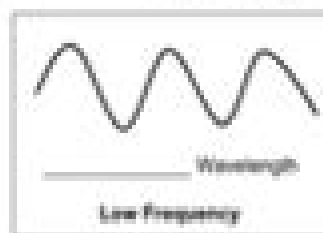
Imagine again a wave travelling towards you, only this time the wavelength is longer.



If the wavelength is longer then the _____ of the wave must be further apart. In one second fewer peaks will reach you than before. This must mean that the frequency has _____.

As wavelength increases, frequency decreases.

Task: Look back at page 74 and draw an appropriate wave labelled "Increasing Frequency" on the electromagnetic spectrum.



Pearson Physical Science Electromagnetic Spectrum Workbook

Nicolas C. Polfer, Philippe Dugourd



Pearson Physical Science Electromagnetic Spectrum Workbook:

A Book of Waves Stefan Helmreich, 2023-07-03 In *A Book of Waves* Stefan Helmreich examines ocean waves as forms of media that carry ecological geopolitical and climatological news about our planet Drawing on ethnographic work with oceanographers and coastal engineers in the Netherlands the United States Australia Japan and Bangladesh Helmreich details how scientists at sea and in the lab apprehend waves materiality through abstractions seeking to capture in technical language these avatars of nature at once periodic and irreversible wild and pacific ephemeral and eternal For researchers and their publics the meanings of waves also reflect visions of the ocean as an environmental infrastructure fundamental to trade travel warfare humanitarian rescue recreation and managing sea level rise Interleaving ethnographic chapters with reflections on waves in mythology surf culture feminist theory film Indigenous Pacific activism Black Atlantic history cosmology and more Helmreich demonstrates how waves mark out the wakes and breaks of social histories and futures

Mechanics and Waves Remington Pitts, 2018-09-12 A mechanical wave is a an oscillation of matter and therefore transfers energy through a medium While waves can move over long distances the movement of the medium of transmission the material is limited Therefore the oscillating material does not move far from its initial equilibrium position Mechanical waves transport energy This energy propagates in the same direction as the wave Any kind of wave mechanical or electromagnetic has a certain energy Mechanical waves can be produced only in media which possess elasticity and inertia Mechanics is the study of the motion of matter and the forces required to cause its motion Mechanics is based on the concepts of time space force energy and matter The knowledge of mechanics is needed for the study of all branches of physics chemistry biology and engineering The consideration of all aspects of mechanics would be too large a task for us Instead in this course we shall study only the classical mechanics of non polar continua We shall concern ourselves with the basic principles common to fluids and solids The mechanics are a physical science since it deals with the study of physical phenomena However some associate mechanics with mathematics while many consider it as an engineering subject Both these views are justified in part Mechanics is the foundation of most engineering sciences and is an indispensable prerequisite to their study This book aim to provide the necessary foundation in wave mechanics which prepare the students for an intensive study of advanced topics at a later stage much of wave mechanics requires a good knowledge of mathematics

FCS physical science L2 ,2007 *X-kit FET Grade 12 PHYS SCIENCE PHYSICS* Clive Long, 2008 **Solar Planetary Systems** Asit B. Bhattacharya, Jeffrey M. Lichtman, 2016-11-25 The authors have put forth great efforts in gathering present day knowledge about different objects within our solar system and universe This book features the most current information on the subject with information acquired from noted scientists in this area The main objective is to convey the importance of the subject and provide detailed information on the physical makeup of our planetary system and technologies used for research Information on educational projects has also been included in the Radio Astronomy chapters This information is a

real plus for students and educators considering a career in Planetary Science or for increasing their knowledge about our planetary system *Vibrations and Waves* A.P. French, 2017-12-21 The M I T Introductory Physics Series is the result of a program of careful study planning and development that began in 1960 The Education Research Center at the Massachusetts Institute of Technology formerly the Science Teaching Center was established to study the process of instruction aids thereto and the learning process itself with special reference to science teaching at the university level Generous support from a number of foundations provided the means for assembling and maintaining an experienced staff to co operate with members of the Institute s Physics Department in the examination improvement and development of physics curriculum materials for students planning careers in the sciences After careful analysis of objectives and the problems involved preliminary versions of textbooks were prepared tested through classroom use at M I T and other institutions re evaluated rewritten and tried again Only then were the final manuscripts undertaken *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* , 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *Physical Science Teacher's Desk Reference* Prentice-Hall Staff, 1993 **Development Of Mathematics Between The World Wars, The: Case Studies, Examples And Analyses** Martina Becvarova, 2021-05-14 The Development of Mathematics Between the World Wars traces the transformation of scientific life within mathematical communities during the interwar period in Central and Eastern Europe specifically in Germany Russia Poland Hungary and Czechoslovakia Throughout the book in depth mathematical analyses and examples are included for the benefit of the reader World War I heavily affected academic life In European countries many talented researchers and students were killed in action and scientific activities were halted to resume only in the postwar years However this inhibition turned out to be a catalyst for the birth of a new generation of mathematicians for the emergence of new ideas and theories and for the surprising creation of new and outstanding scientific schools The final four chapters are not restricted to Central and Eastern Europe and deal with the development of mathematics between World War I and World War II After describing the general state of mathematics at the end of the 19th century and the first third of the 20th century three case studies dealing with selected mathematical disciplines are presented set theory potential theory combinatorics in a way accessible to a broad audience of mathematicians as well as historians of mathematics **Laser Photodissociation and Spectroscopy of Mass-separated Biomolecular Ions** Nicolas C. Polfer, Philippe Dugourd, 2013-09-03 This lecture notes book presents how enhanced structural information of biomolecular ions can be obtained from interaction with photons of specific frequency laser light The methods described in the book Laser photodissociation and spectroscopy of mass separated biomolecular ions make use of the fact that the

discrete energy and fast time scale of photoexcitation can provide more control in ion activation This activation is the crucial process producing structure informative product ions that cannot be generated with more conventional heating methods such as collisional activation The book describes how the powerful separation capabilities and sensitivity of mass spectrometry MS can be combined with the structural insights from spectroscopy by measuring vibrational and electronic spectra of trapped analytes The implementation of laser based photodissociation techniques in MS requires basic knowledge of tunable light sources and ion trapping devices This book introduces the reader to key concepts and approaches in molecular spectroscopy and the light sources and ion traps employed in such experiments The power of the methods is demonstrated by spectroscopic interrogation of a range of important biomolecular systems including peptides proteins and saccharides with laser light in the ultraviolet visible and infrared range The book Laser photodissociation and spectroscopy of mass separated biomolecular ions is an indispensable resource for students and researchers engaged or interested in this emerging field It provides the solid background of key concepts and technologies for the measurements discusses state of the art experiments and provides an outlook on future developments and applications **Public Opinion** ,1903

Engineering Physics Mani Naidu,2013 Engineering Physics is designed to cater to the needs of first year undergraduate engineering students Written in a lucid style this book assimilates the best practices of conceptual pedagogy dealing at length with various topics such as crystallography principles of quantum mechanics free electron theory of metals dielectric and magnetic properties semiconductors nanotechnology etc *Nature* ,1892 **Nature** Sir Norman Lockyer,1898 **The Glass of Wine** James F. Shackelford, Penelope L. Shackelford,2017-12-08 The first book to focus on the role of glass as a material of critical importance to the wine industry For centuries glass has been the material of choice for storing shipping and sipping wine How did that come to pass and why To what extent have glassmaking and wine making co evolved over the centuries The first book to focus on the role of glass as a material of critical importance to the wine industry The Glass of Wine answers these and other fascinating questions The authors deftly interweave compelling historical technical and esthetic narratives in their exploration of glass as the vessel of choice for holding storing and consuming wine They discuss the traditions informing the shapes and sizes of wine bottles and wine glasses and they demystify the selection of the right glass for red versus white varietals as well as sparkling and dessert wines In addition they review the technology of modern glassmaking and consider the various roles glass plays in wineries especially in the enologist s laboratory And they consider the increasing use of aluminum and polymer containers and its potential impact on the central role of glass as the essential material for wine appreciation The first book focusing on the role of glass and its central importance to the wine industry Written by a glass scientist at UC Davis home of the premier viticulture and enology program in North America Interlards discussions of the multi billion dollar glass and wine industries with valuable technical insights for scientists engineers and wine enthusiasts alike Illustrates the wide spectrum of bottles carafes decanters and drinking glasses with an

abundance of exquisite full color photos Both an authoritative guide and a compelling read *The Glass of Wine* tells the story of the centuries old marriage between an endlessly fascinating material and a celebrated beverage It is sure to have enormous appeal among ceramic and glass professionals wine makers and oenophiles of all backgrounds **Pearson's Magazine** ,1922 Vol 49 no 9 Sept 1922 accompanied by a separately paged section entitled ERA electronic reactions of Abrams Ether and Modernity Jaume Navarro,2018-08-30 *Ether and Modernity* offers a snapshot of the status of an epistemic object the ether or aether in the early twentieth century The contributed papers show that the ether was often regarded as one of the objects of modernity hand in hand with the electron radioactivity or X rays and not simply as the stubborn residue of an old fashioned long discarded science The prestige and authority of scientists and popularisers like Oliver Lodge and Arthur Eddington in Britain Phillip Lenard in Germany or Dayton C Miller in the USA was instrumental in the preservation defence or even re emergence of the ether in the 1920s Moreover the consolidation of wireless communications and radio broadcasting indeed a very modern technology brought the ether into audiences that would otherwise never have heard about such an esoteric entity The ether also played a pivotal role among some artists in the early twentieth century the values of modernism found in the complexities and contradictions of modern physics such as wireless action or wave particle puzzles a fertile ground for the development of new artistic languages in literature as much as in the pictorial and performing arts Essays on the intellectual foundations of Umberto Boccioni's art the linguistic techniques of Lodge and Ernst Mach's considerations on aesthetics and physics witness to the imbricate relationship between the ether and modernism Last but not least the ether played a fundamental part in the resurgence of modern spiritualism in the aftermath of the Great War This book examines the complex array of meanings strategies and milieus that enabled the ether to remain an active part in scientific and cultural debates well into the 1930s but not beyond This portrait may be easily regarded as the swan song of an epistemic object that was soon to fade away as shown by Paul Dirac's unsuccessful attempt to resuscitate some kind of aether in 1951 with which this book finishes Longman science Physics 9 Singh, *Ultrasonic Waves* Auteliano Santos Jr.,2012-03-07 Ultrasonic waves are well known for their broad range of applications They can be employed in various fields of knowledge such as medicine engineering physics biology materials etc A characteristic presented in all applications is the simplicity of the instrumentation involved even knowing that the methods are mostly very complex sometimes requiring analytical and numerical developments This book presents a number of state of the art applications of ultrasonic waves developed by the main researchers in their scientific fields from all around the world Phased array modelling ultrasonic thrusters positioning systems tomography projection gas hydrate bearing sediments and Doppler Velocimetry are some of the topics discussed which together with materials characterization mining corrosion and gas removal by ultrasonic techniques form an exciting set of updated knowledge Theoretical advances on ultrasonic waves analysis are presented in every chapter especially in those about modelling the generation and propagation of waves and the

influence of Goldberg's number on approximation for finite amplitude acoustic waves Readers will find this book a valuable source of information where authors describe their works in a clear way basing them on relevant bibliographic references and actual challenges of their field of study *The Year-book of the Scientific and Learned Societies of Great Britain and Ireland* ,1886

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