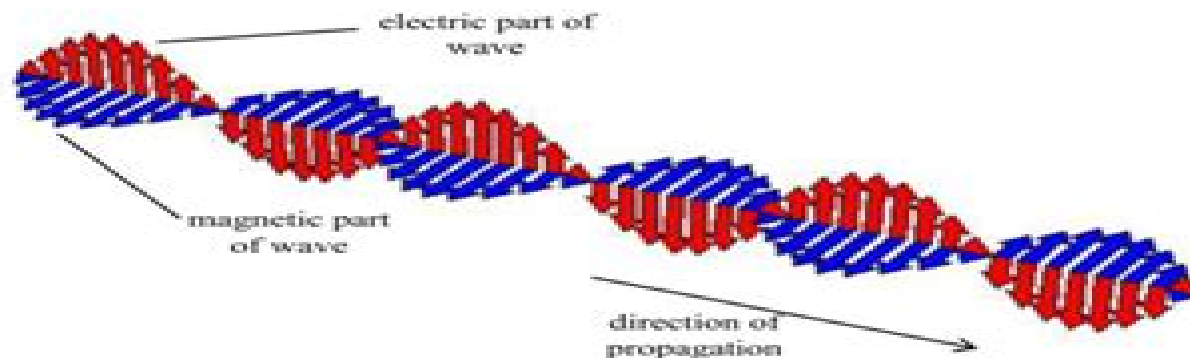


## Conceptual Physics POGIL: The Electromagnetic Spectrum

### The Nature of Electromagnetic Radiation

Electromagnetic radiation includes radio signals, microwaves, infrared, visible light, ultraviolet, X-rays, and gamma rays. One model of electromagnetic radiation is a propagating wave that is partially electric in nature and partially magnetic in nature. The following diagram is a pictorial description of this model:



This type of wave is called an *electromagnetic wave*.

Another model of electromagnetic radiation is a particle called a *photon*. It is a somewhat strange particle in that the laws of physics tell us that it has no mass and no volume, yet it must exist because we can observe its effects!

1. Scientist often say that light and other forms of electromagnetic radiation have a dual nature. What do you think they mean by this?
2. Are electromagnetic waves transverse or longitudinal? Justify your answer.

# Conceptual Physics Pogil The Electromagnetic Spectrum Answers

**Wim Vegt**



## **Conceptual Physics Pogil The Electromagnetic Spectrum Answers:**

**Fields and Particles** Francis Bitter, Heinrich Medicus, 1973      **Electromagnetic Theory and Wave Propagation** S. N. Ghosh, 2002-01-01 Around 1864 Maxwell laid the foundation of electromagnetic theory which formed the crowning achievement of nineteenth century physics Max Born wondered how Maxwell could introduce the decisive step by adding the missing term the displacement current without proper empirical foundation He argued that it may be that Maxwell was first guided by mechanical models of the ether later by reasons of mathematical perfection or beauty or however one may describe it as an act of genius At the beginning of the nineteenth century when principles of physics in many branches underwent a good deal of modification it was realized that the basic principles of Maxwell need not undergo any change barring the concept of all prevailing ether Otherwise fundamental concepts of Maxwell remain the foundation of our present day concept of electromagnetism As the range of Electromagnetic waves extended more and more to shorter wavelengths it was realized that the extended regions have very significant and important applications for revealing the mysteries of nature After elaborating the basic concepts of electromagnetic theory in the first few chapters this book covers its extended regions discovered after World War II This edition has been further expanded by adding a chapter on Relativistic Electrodynamics useful for students of universities engineering institutes and research scholars      *Conceptual Physics* Paul G. Hewitt, 1998

**Electromagnetic Waves** Roland Dobbs, 1985-05-30 Electromagnetism began in the nineteenth century when Faraday showed electricity and magnetism were not distinct separate phenomena but interacted when there were time varying electric or magnetic fields In *Electricity and Magnetism* I have shown from first principles how Faraday's experiments led finally to Maxwell's four equations which with the electromagnetic force law summarise the whole of classical electromagnetism This book therefore begins with Maxwell's equations and then uses them to study the propagation and generation of electromagnetic waves Physics is a subject in which the more advanced the treatment of a topic the deeper the understanding of common occurrences that is revealed In studying the solutions of Maxwell's equations you will find answers to such questions as What is an electromagnetic wave Why does a radio wave travel through space at the speed of light How is a radio wave generated Why does light pass through a straight tunnel when a radio wave does not How does light travel down a curved glass fibre It is a remarkable fact that the classical laws of electromagnetism are fully consistent with Einstein's special theory of relativity and this is discussed in Chapter 2 The following four chapters provide solutions of Maxwell's equations for the propagation of electromagnetic waves in free space in dielectrics across interfaces and in conductors respectively      **Principles of Electromagnetic Theory** Chetana Jain, 2017 Principles of Electromagnetic Theory is an essential component of the physics curriculum and this comprehensive textbook introduces undergraduate students to the basic principles of electromagnetic theory Although several excellent textbooks on electromagnetic theory are available the author has tried to make this book lucid for better comprehension The contents have been arranged in a systematic manner

covering all the major topics of electromagnetic theory viz propagation of electromagnetic waves through isotropic and anisotropic medium their reflection and transmission at an interface transmission lines and waveguides Wherever necessary a brief recapitulation of the fundamental knowledge has been provided Each chapter has a collection of worked out numerical and objective questions This book is a complete package in itself as it sufficiently covers the syllabus of various institutions which offer a course on electromagnetic theory It also prepares the student for various competitive exams by providing a conceptual insight into the topics covered

Gamblers in Physics Wim Vegt, 2020-11-01 According to Maxwell's equations Electromagnetic Waves can only propagate along straight lines and it is impossible that Light Electromagnetic Waves could confine with the surface of a sphere or an ellipse For that reason these material waves in Schrödinger's wave equation could only be of a different origin than Electromagnetic Waves Niels Bohr introduced the concept of Probability Waves as the origin of the material waves in Schrödinger's wave equation And defined the New Concept that the electron was still a particle but the physical presence of the electron in the Atom was equally divided by a spherical probability function In the New Theory it will be demonstrated that because of a mistake in the Maxwell Equations in 1927 Confined Electromagnetic waves could not be considered to be the material waves expressed in Schrödinger's wave equation The New Theory presents a new equation describing electromagnetic field configurations which are also solutions of the Schrodinger's wave equation and the relativistic quantum mechanical Dirac Equation and carry mass electric charge and magnetic spin at discrete values

*Explicit Symmetry Breaking in Electrodynamical Systems and Electromagnetic Radiation* Dhiraj Sinha, Gehan Anil Joseph Amaratunga, 2022

*Let There be Light* Alex Montwill, Ann Breslin, 2008 This book is the first of its kind to devote itself at this level to the key role played by light and electromagnetic radiation in the universe Readers are introduced to philosophical hypotheses such as the economy symmetry and universality of natural laws and are then guided to practical consequences such as the rules of geometrical optics and even Einstein's well known but mysterious relationship  $E = mc^2$  Most chapters feature a pen picture of the life and character of a relevant scientific figure These Historical Interludes include among others Galileo's conflicts with the Inquisition Fourier's taunting of the guillotine Neils Bohr and World War II and the unique character of Richard Feynman

BOOK JACKET

Electromagnetic Wave Theory James R. Wait, 1985-01-01

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