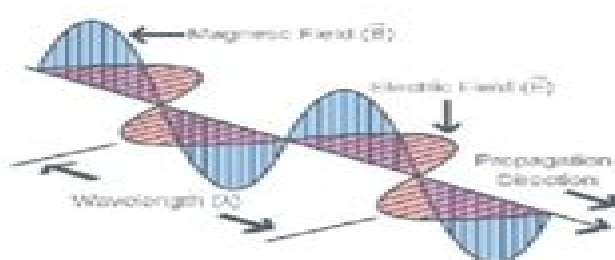


Chapter Two: Atomic Theory

(I) Topic 2.1: Atomic Structure

What are electromagnetic waves ?	Electromagnetic waves are oscillations (wave cycles) of an electro-magnetic field that propagates through space at the speed of light. → $F(x) = A \sin [k(x)]$
- What are the two components of electromagnetic wave oscillations?	Electric Field Oscillation (E)* Magnetic Field Oscillation (B)  * For this course, only the Electric Field (E) will be relevant.
- What are examples of electromagnetic waves?	Light, X-Rays, Radio Signals...etc.
How do electromagnetic waves relate to the atomic structure and properties of the atoms that makeup molecular compounds?	The atomic structure and properties of atoms are determined through the way <i>they interact</i> with electromagnetic waves.
What is the Electric Field of electromagnetic waves?	It is a simple periodic wave characterized by a certain wavelength [letter lambda (λ)] and frequency [letter nu (ν)]. The Electric Field is an electric vector that changes with "x" or distance/time at which the electromagnetic wave has travelled.
What are Wavelengths ?	The wavelength of periodic waves refers to the distance between two maximum (or two closest equivalent) points of the wave. - Usually expressed in units of distance (nanometers) [$1 \text{ nm} = 10^{-9} \text{ m}$]
How is Amplitude (A) an important	The amplitude or "height" from the axis to the

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NRL Review ,1998 **An Introduction to the Study of the Compounds of Carbon; Or, Organic Chemistry** Ira Remsen,1885 Cumulated Index Medicus ,1978 English Mechanic and Mirror of Science and Art ,1894 *English Mechanic and Mirror of Science* ,1894 *Biology Digest* ,1982-12 *British Medical Journal* ,1893 **The Athenaeum** ,1852 Australian Education Index ,1980 *English Mechanic and Mirror of Science and Art* ,1906 Monthly Index of Russian Accessions Library of Congress. Processing Department,1960 The Athenæum ,1852 Monthly Index of Russian Accessions ,1960 *New Scientist* ,1986-12 **Library Journal** Melvil Dewey,Richard Rogers Bowker,Frederick Leyboldt,Charles Ammi Cutter,Bertine Emma Weston,Karl Brown,Helen E. Wessells,1950 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Issued also separately Parliamentary Papers Great Britain. Parliament. House of Commons,1962 Index Medicus ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Scientific American ,1876 Sessional Papers Great Britain. Parliament. House of Commons,1962 *Solid Fuel Chemistry* ,1978

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