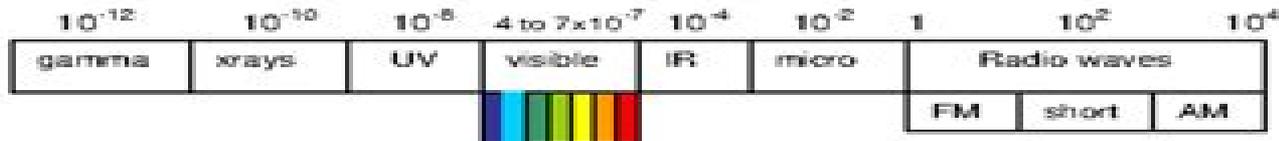


**Chapter 7 Notes - Atomic Structure and Periodicity**

7.1 Electromagnetic Radiation

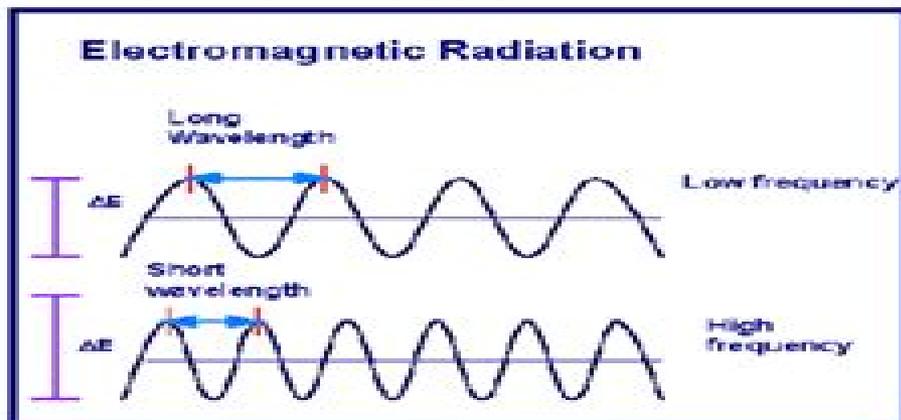
A. Types of EM Radiation (wavelengths in meters)



Wavelength increases  $\longrightarrow$   
Frequency decreases  $\longrightarrow$   
Energy decreases  $\longrightarrow$   
Speed is constant =  $2.9979 \times 10^8$  m/sec

B. Properties of EM Waves

1. Wavelength ( $\lambda$ )
  - a. Distance between two consecutive peaks or troughs in a wave
  - b. Measured in meters (SI system)
2. Frequency ( $\nu$ )
  - a. Number of waves that pass a given point per second
  - b. Measured in hertz ( $\text{sec}^{-1}$ )
3. Speed ( $c$ )
  - a. Measured in meters/sec



4. Relationship of properties
  - a.  $\lambda \nu = c$

# Chapter 7 Notes Atomic Structure And Periodicity

**John Olmsted, Gregory M. Williams**



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