

Chapter 7 Notes - Atomic Structure and Periodicity

7.1 Electromagnetic Radiation

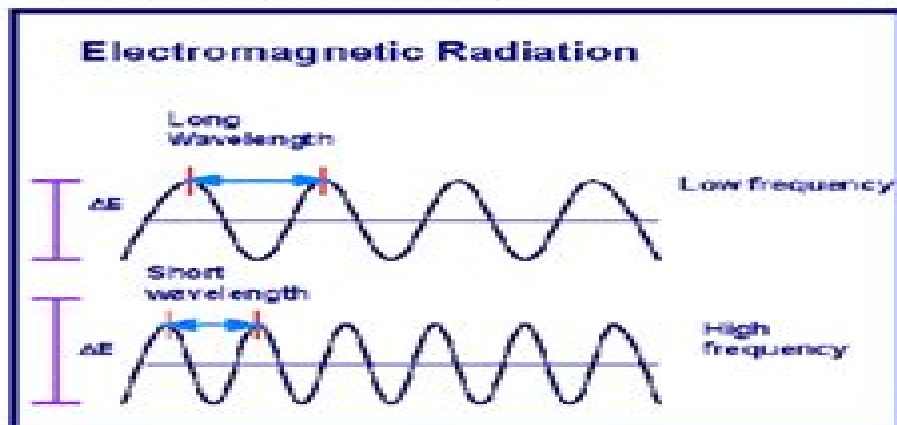
A. Types of EM Radiation (wavelengths in meters)



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

B. Properties of EM Waves

1. Wavelength (λ)
 - a. Distance between two consecutive peaks or troughs in a wave
 - b. Measured in meters (SI system)
2. Frequency (ν)
 - a. Number of waves that pass a given point per second
 - b. Measured in hertz (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

Tao Wei



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