Note Taking Guide - Episode 1301

Electromagnetic waves:

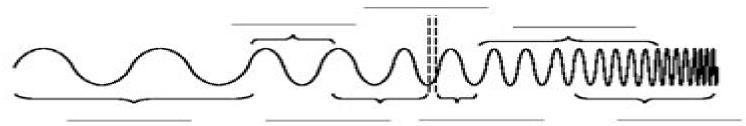
- Consist of changing magnetic and electric fields moving through space at speed of light (3.0×10^8)
 - are produced by vibrating charged particles
 - do not require a medium

.

Electromagnetic spectrum:

- range of frequencies of electromagnetic waves.
 - as frequency increases, wavelength decreases
- as frequency increases, energy of wave increases

-



Radio Waves:

- have the lowest Fearer and the longest Wavelength
- includes TV waves, which are Vht (very high frequency) or Uht (ultra high frequency), and rader , with highest frequency
- Each radio station broadcasts at a set frequency. Radio waves are the waves for sound.
- Sound waves are converted into electrical signals and change (modulate) the carrier waves.

am - Amplitude modulation fm - frequency modulation

 In receiver antennae, electrons are made to vibrate sympathetically at set frequency (concept of sympathetically)

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Roman Wölfel

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