

1. Chapter 19

a. The Doppler Effect

- i. Wave phenomenon that can be used to determine how an object moves
- ii. Sound: shift in **pitch** as source of sound approaches or recedes
- iii. Light: shift in **color** as source approaches or recedes.
- iv. Source moves toward observer: frequency higher compared to rest frequency
 1. Blueshift
- v. Source moves away from observer: frequency lowers compared to rest frequency
 1. Redshift
- vi. Amount of shift depends **directly** on the speed
 1. Faster speed = greater shift
- vii. Direction of shift tells us if source is moving towards or away from us
 1. How fast it's moving from the amount of the shift
- viii. Doppler Effect only happens if motion is along the line of sight
 1. Observer can't detect Doppler Effect if perpendicular from us

b.

Gamma Rays	X-Ray	UV	VIBGYOR	IR	Radio
High frequency		← blue (brighter, louder)			low frequency
Short wavelength		red (dimmer, softer) →			long wavelength

2. Chapter 22 (Electrostatics)

a. Properties of Electric Charges

- i. 2 types of charges exist
 1. positive and negative (opposites)
- ii. like charges repel and unlike charges attract one another
- iii. proton: basic carrier of positive charge ($1.6 \times 10^{-19} \text{ A}$)
 1. doesn't move from one material to another bc they are held firmly together in the nucleus
- iv. electron: basic carrier of negative charge ($-1.6 \times 10^{-19} \text{ A}$)
 1. gaining or losing electrons is how an object becomes charged
- v. electric charge is always conserved
 1. not created, only exchanged
 2. object becomes charged due to negative charge being transferred from one object to another
- vi. most objects tend to be neutral

b. Electric Forces

- i. Electrons in an atom
 1. Innermost: attracted strongly to oppositely charged nucleus
 2. Outermost: attracted loosely and can be easily dislodged
- ii. Coulomb's Law: the attractive or repulsive force between electric charges
 1. $F = kq_1q_2/d^2$
 2. q_1 and q_2 are the charges of 2 particles
 3. d is the distance between them
 4. k is constant
- iii. Force depends on the product of the charges and is inversely proportional to the square of the distance between them
- iv. Properties
 1. Electrical force inversely proportional to the square of the separation between the 2 objects
 2. Proportional to the product of the magnitudes of the charges q_1 and q_2
 3. Attractive if the charges are of opposite sign and repulsive if the charges have the same sign

c. Conductors, Semiconductors, Insulators

- i. Conductors
 1. Materials in which the electric charges move freely
 2. Copper, aluminum, and silver
 3. When a conductor is charged, the charge distributes over the entire surface of the material evenly
- ii. Semiconductors
 1. Characteristics are between those of insulators and conductors
 2. Silicon and germanium
- iii. Insulators
 1. Materials in which electrical charges do not move freely
 2. Glass and water

d. Electric Fields

- i. Electric Field Direction
 1. Direction of field defined to be the direction of the electric force that would be exerted on a small positive test charge placed at that point
 2. Electric field produced by negative charge is directed toward the charge
 3. Electric field produced by positive charge is directed away from the charge

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