LECTURE 3 WAVELIKE PROPERTIES OF RADIATION

I. Wave Nature of Radiation

- A. Light: periodic variation of an electromagnetic field
- B. Electromagnetic radiation
 - 1. Period
 - 2. Frequency
 - 3. Speed

II. Wave Nature of Light

- A. Superposition
- B. Constructive and destructive interference

III. Wavelike Properties of Radiation

- A. Young's two slit experiment
- B. General condition for constructive interference
- C. General condition for destructive interference