

### LECTURE 3 WAVELIKE PROPERTIES OF RADIATION

#### I. Light: Periodic Variation of Electromagnetic Field

- A. Oscillation vs. propagation
- B. Calculating speed of wave
- C. Visible light

#### 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