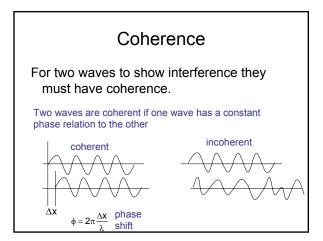


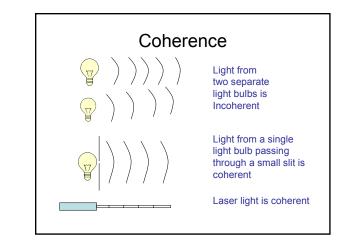
5.2 Interference Coherence

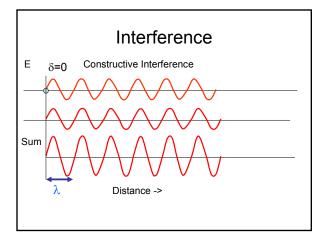
Two-Slit Interference Thin film Interference

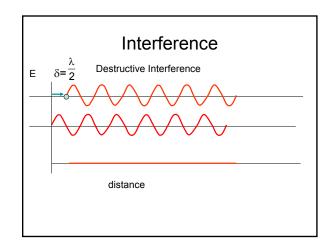
Interference Effects

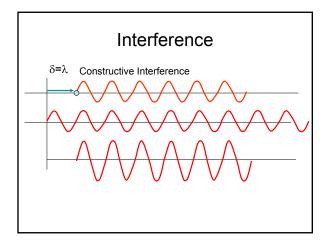
- Interference is a general property of waves. A condition for interference is that the wave source is coherent.
- Interference between two waves gives characteristic interference patterns due to constructive and destructive interference.

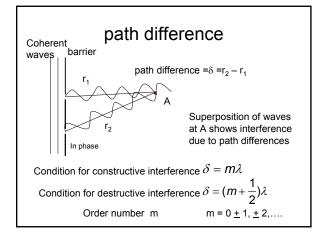


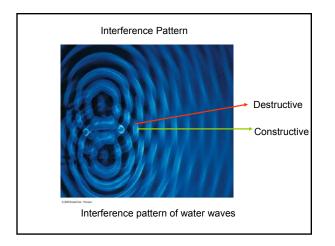


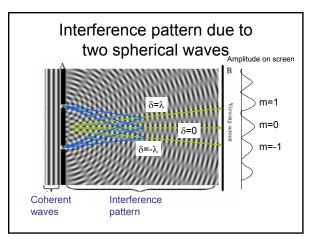


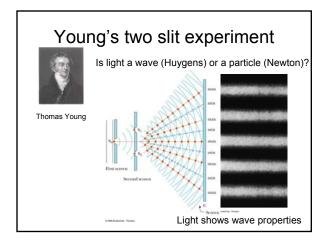


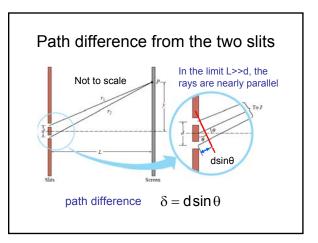


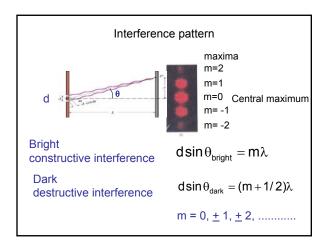


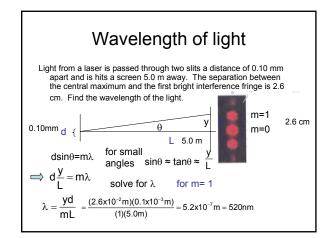




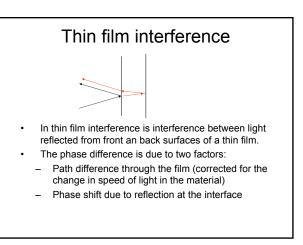


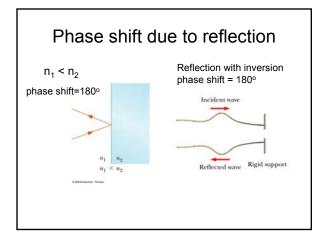


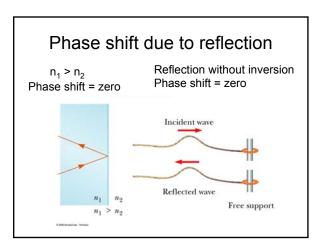


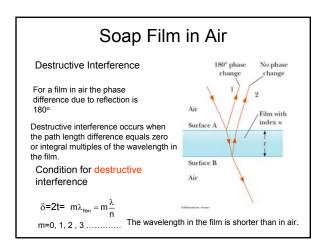


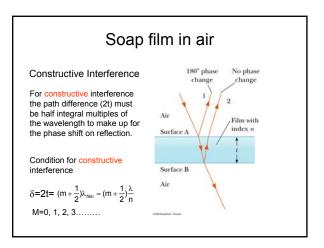


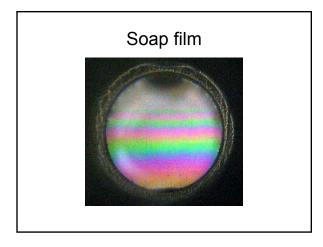


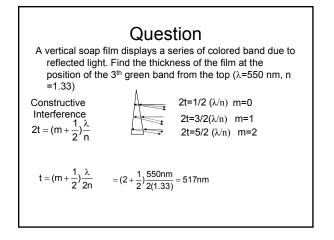


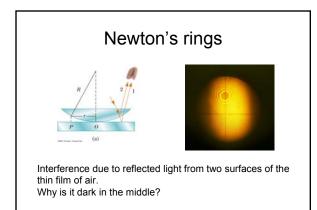


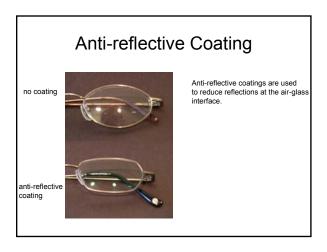


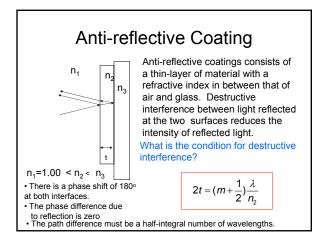


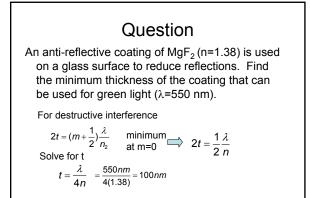




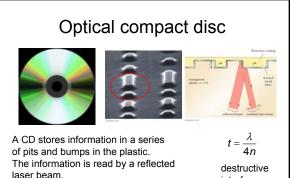








Quarter wavelength (in coating) thickness



The intensity of the beam is changed by destructive interference of the reflected light interference