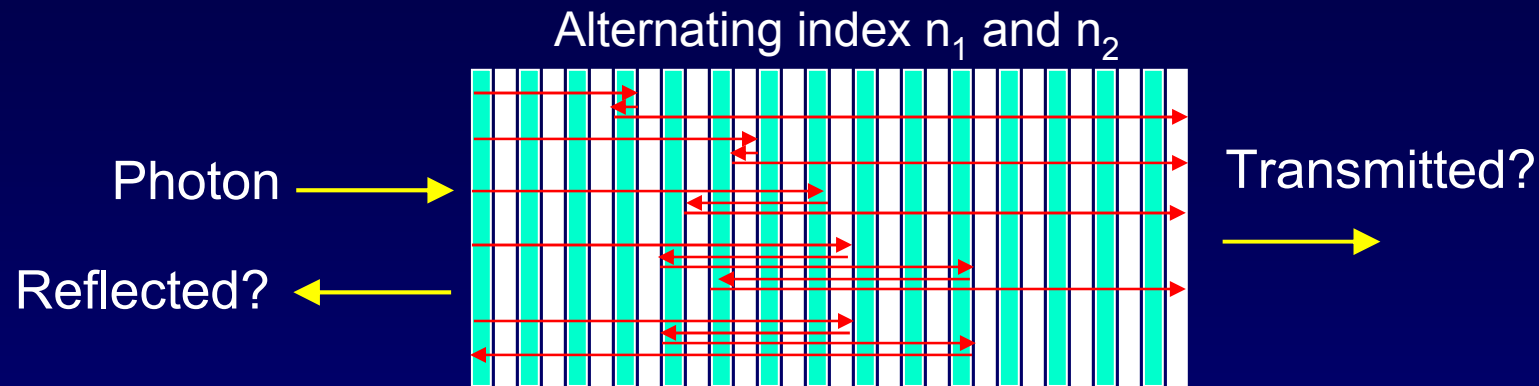


# Interference Filter

Light propagating through a periodic set of layers with alternating index of refraction.



The behavior light waves in this material is the same as that of electron waves in a string of square wells.

For certain wavelengths there is complete reflection, because that wavelength cannot exist inside the material.

This is a “**stop band**”.

For other wavelengths there is complete transmission.

This is a “**pass band**”.