

## Answer on Question #51210, Chemistry, Physical Chemistry

**Question:** State Bragg Law. What assumptions were made by Bragg in deriving Bragg equation?

**Answer:** Bragg Law gives the angles for coherent and incoherent scattering from a crystal lattice.

The equation of Bragg Law is  $n\lambda = 2d \cdot \sin\theta$ . Bragg made an assumption that diffraction occurs when electromagnetic radiation or subatomic particle waves with wavelength comparable to atomic spacings, are incident upon a crystalline sample, scattered by the atoms in the system and undergo constructive interference in accordance to Bragg's law.