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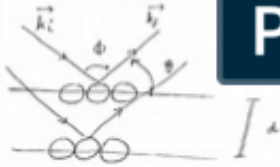
[Solid State Physics So Pillai Pdf 30](#)

Physics & Miscellaneous Topics

Types of solids:

→ internal structure can be replicated in terms of some fundamental units called crystals, therefore it has ordered arrangement of atoms.

Crystal Structure Determination



PDF

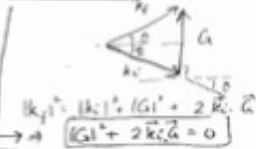
Now,  $2d \sin \theta = n\lambda$   
 $\theta = \left(\frac{n\lambda}{2d}\right)$

Also,  $2d \sin \theta = n\lambda$ , for interference constructively

Now we also know, for diffraction,  $|\vec{k}_f| = |\vec{k}_i|$

Also  $\vec{k}_f = \vec{k}_i + \vec{G}$ , where  $G = \frac{2\pi}{d}$

Using Equations



one direction is perpendicular to plane of diffraction  
 It's called Reciprocal Lattice Vector.



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