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Solid state physics | Lecture 1: Introduction

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Wave equation of electron in periodic potential (Central equation)

MSE 241 Online Lecture May 27, 2020 Energy BandsIntroduction to solid state physics by Charles kittel solutions of problems: chapter 04

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The energy is  $\epsilon = 2 \frac{\hbar^2 k^2}{2m}$  h K 2m h P ma // (b) At  $k = \pi/a$  the determinantal equation is  $(P/Ka) \sin Ka + \cos Ka = -1$ . In the same limit this equation has solutions  $Ka = \pi + \delta$ , where  $\delta \ll \pi$ . We expand to obtain  $(\sin(\pi + \delta) + \cos(\pi + \delta)) = -1$ , which has the solution  $\delta = 0$  and  $\delta = 2\pi/\pi$ .

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The vectors  $x^* + y^* + z^*$  and  $-x^* - y^* + z^*$  are in the directions of two bod; y diagonals of a cube. If  $\theta$  is the angle between them, their scalar product gives  $\cos \theta = -1/3$ , whence  $\theta = \cos^{-1} 1/3 = 90^\circ + 19^\circ 28' = 109^\circ 28'$ . 2. The plane (100) is normal to the x axis.

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Kittel is encyclopaedic in scope, though the depth of coverage can be quite uneven. Hook & Hall Solid State Physics is readable and at about the right level, but it doesn't cover everything. Ashcroft & Mermin Solid State Physics is a useful but more advanced text for anyone who requires more depth, especially for the quantum mechanics of electrons in solids.

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1. The vectors  $x^* + y^* z^*$  and  $-x^* y^* + z^*$  are in the directions of two body diagonals of a cube. If  $\theta$  is the angle between them, their scalar product gives  $\cos \theta = -1/3$ , whence  $\theta = \cos^{-1} 1/3 = 90^\circ + 19^\circ 28' = 109^\circ 28'$ . 2. The plane (100) is normal to the x axis.

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