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Solid state physics | Lecture 1: Introduction

Introduction to solid state physics by Charles kittel solutions of problems: chapter 3 ~~Introduction to Solid State Physics, Lecture 1: Overview of the Course~~ 1.4 Heat and Work (Thermal Physics) (Schroeder) 1.6 Heat Capacities (1/2) (Thermal Physics) (Schroeder) ~~IIT JAM PHYSICS 2017 SEC A Q9,10 PAPER YEAR SOLVE,LECTURES COMPLETE ANSWER SOLUTION~~

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Wave equation of electron in periodic potential (Central equation)

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

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

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

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(PDF) Introduction to Solid State Physics Charles Kittel ... Solid-state physics is the study of rigid matter, or solids, through methods such as quantum mechanics, crystallography, electromagnetism, and metallurgy. It is the largest branch of condensed matter physics. Solid-state physics studies how the large-scale properties of solid materials result from their atomic-scale properties. Solid-state physics -

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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.

PHYS 40352: Solid State Physics

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

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Kittel is an excellent solid-state physics book which can be used at various levels. A basic understanding can be gained by dipping into parts of the book and a very thorough understanding can be gained from reading the whole text. The examples and questions are also very helpful.

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