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Solid state physics | Lecture 1: Introduction

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IIT JAM PHYSICS 2017 Q11 PAPER YEAR SOLVE,LECTURES COMPLETE ANSWER SOLUTIONIIT JAM PHYSICS 2017 SEC A Q1 PAPER YEAR SOLVE,LECTURES COMPLETE ANSWER SOLUTION Bloch Function Books to study for becoming a Physics graduate. Nearly Free Electron# Energy Gap# Brillouin zone # Bloch Function, Solid State Physics, (URDU/HINDI)

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 vectors $x^i + y^j + z^k$ and $-x^i - y^j + z^k$ are in the directions of two bod; y diagonals of a cube. If θ 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.

PHYS 40352: Solid State Physics

1. The vectors $x^i + y^j + z^k$ and $-x^i - y^j + z^k$ are in the directions of two body diagonals of a cube. If θ 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 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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