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• We have seen (Kittel Ch 2) that any periodic function can be written as Fourier series f(r) = Σ G f G exp(i G.r) where the G ‘s are reciprocal lattice vectors G(m 1,m 2,...) = m 1 b 1 + m 2 b 2 + m 3 b 3 • Check: A periodic function satisfies f(r) = f(r + T) where T is any translation T(n 1,n 2,...) = n 1 a 1 + n 2 a 2 + n 3 a 3 the n ...

Energy Bands for Electrons in Crystals (Kittel Ch. 7)
[SOLVED] kittel chapter 7 Homework Statement This question relates to Kittel's solid-state physics book. I have edition 8. I just do not understand how the first Brillioun zone relates to energy gaps. For example, in Figure 2, I do not understand the shape of the curve in Figure 2.

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CHAPTER 2 1. The crystal plane with Miller indices hkA is a plane defined by the points a1/h, a2/k, and .(a) Two vectors that lie in the plane may be taken as a a3 /A 1/h – a2/k and a1/h−a3/A.But each of these vectors gives zero as its scalar product with Ga=hk12+a+Aa3, so that G must be perpendicular to the plane hkA.

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Kittel c. introduction to solid state physics 8 th edition - solution manual 1. CHAPTER 1 1. The vectors ˆ ˆ ˆ+ +x y z and ˆ ˆ ˆ− − +x y z are in the directions of two body diagonals of a cube. If θ is the angle between them, their scalar product gives cos θ = –1/3, whence .1 cos 1/3 90 19 28' 109 28'− θ = = °+ ° = ° 2. The ...

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Solutions of Selected Problems and Answers 785 Chapter 3 Problem 3.1s According to (3.1) the viscosity η is equal to µst,whereµs is the shear mod- ulus and t is a characteristic time of motion of each water molecule; t is expected to be of the order of the period of molecular vibration T in ice: t = c1T =2πc1 /ω,whereω = c2 /mea2 B

Solutions of Selected Problems and Answers
Solutions for Homework Set 3 1. Kittel Problem 4.4 Solution The force constant between the p and p+s planes of atoms is given by Cp = A µ sin(pk0a)pa ¶; and so we generalise the dispersion equation in Kittel Equation (4:16a) viz.!2 = 2

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The two solutions are M!2 = (C 1 + C 2) (C 1 2 + C22 + 2C 1C 2 coska)1=2: Now, chose C 1 = Cand C 2 = 10C. The solutions are! 1(k= 0) = 0 and ! 2(k= 0) = q 22 C=M;! 1(k= ˇ=a) = p 2 C=M and ! 2(k= ˇ=a) = q 20 C=M: The zero-frequency mode at k= 0 is called the Goldstone mode. 10.4. This problem on singularities in the density of vibrational states is based on Kittel Chapter 5,

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Chapter 7: Energy Bands 161. Nearly Free Electron Model 164. Origin of the Energy Gap 165. Magnitude of the Energy Gap 167. Bloch Functions 167. Kronig-Penney Model 168. Wave Equation of Electron in a Periodic Potential 169. Restatement of the Bloch Theorem 173. Crystal Momentum of an Electron 173. Solution of the Central Equation 174