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Kronig-Penney Model (Kittel 7.3). (a) For a square well potential ( $U = 0$  for  $0 < x < a$ , and  $U = U_0$  for  $-b < x < 0$ ), consider two solutions of the Schrödinger equation:  $\psi = Ae^{iKx} + Be^{-iKx}$  for  $U = 0$ ;  $\psi = Ce^{Qx} + De^{-Qx}$  for  $U = U_0$ ; (2) For a square well potential, there are 4 boundary conditions. 2 of them are from continuity of wave functions and their derivatives:  $\psi(a) = \psi(b)$ ;  $\psi'(a) = \psi'(b)$  ...

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CHAPTER 2 1. The crystal plane with Miller indices  $hka$  is a plane defined by the points  $a/h$ ,  $a/2k$ , and  $a/3$ . (a) Two vectors that lie in the plane may be taken as  $a(1/h - a/2k)$  and  $a(1/h - a/3)$ . But each of these vectors gives zero as its scalar product with  $G = hka$ , so that  $G$  must be perpendicular to the plane  $hka$ .

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Potential energy in the diamond structure. (a) Show that for the diamond structure the Fourier component  $U_{\mathbf{G}}$  of the crystal po...

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[SOLVED] kittel chapter 7 Homework Statement This question refers to Kittel's solid-state physics book. I have edition 8. In this chapter, there is a section called the "Empty Lattice Approximation". Can someone explain what the title of that chapter means i.e. in what sense is that...

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Question 4a) Kittel+Kroemer, Chapter 4, Problem 7. The partition function of a single photon mode is  $Z_1 = \sum_{n=0}^{\infty} e^{-\beta n \hbar \omega} = \frac{1}{1 - e^{-\beta \hbar \omega}}$  (3) on page 90 of K+K. The partition function for all the modes in the box is the product of the partition functions for each mode:  $Z_{\text{Total}} = \prod_n Z_1 = \prod_n \frac{1}{1 - e^{-\beta \hbar \omega_n}}$  (12) Note that each mode is distinguishable by its mode frequency  $\omega_n$ , is independent and non-interacting, hence ...

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Kittel, Chapter 7 3. Ashcroft and Mermin, Chapter 9 4. Kaxiras, Chapter 3 5. Ibach, Chapter 7 4.1 Nearly Free Electron Model 4.1.1 Brillouin Zone 4.1.2 Energy Gaps 4.2 Translational Symmetry – Bloch's Theorem 4.3 Kronig-Penney Model 4.4 Tight-Binding Approximation 4.5 Examples. 3 13 Lecture 6 6. The Tight-Binding Approximation References: 1. Marder, Chapters 8, pp. 194-200 2. Kittel ...

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chapter the vectors and are in the directions of two body diagonals of cube.  $\theta$  is the angle between them, their scalar product gives  $\cos \theta$  whence  $\cos \theta = \frac{a^2}{\sqrt{2}a^2} = \frac{1}{\sqrt{2}}$  the plane Sign in Register; Hide. Introduction to Solid State Physics Solution Manual by Charles Kittel. Since the publication of the first edition over 50 years ago, Introduction to Solid State... View more. University. South China University of ...

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Solution 7 FS 15 PD V. Geshkenbein Problem 7.1 Volume change under deformation As the displacement gradient  $u$  is a real symmetric rank-2 tensor, it can be diagonalised by an orthogonal transformation. We hence consider a small cube of the material that is oriented along the tensor's eigenvectors. Under the deformation  $u$ , this cube is only elongated or compressed along the axes, i.e. there is ...