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1. Consider an energy band,  $\phi(k)$ , which has a minimum, i.e.  $\phi(k) = \text{constant} + \hbar^2 [2k_x^2 m_x + k_y^2 m_y + k_z^2 m_z]$ . (1) (If the minimum is not at  $k=0$  but at  $k=k_0$  say, then one replaces  $k$  above by  $k-k_0$ , and the result for  $m$  below will be unchanged.) Find the time dependent solution of the equations of motion  $m \frac{dv_x}{dt} = (e) E + v \dots$

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M2 1+M22+2M1M2coska, (1) where K is the spring constant, and a is the size of the unit cell (so the spacing between atoms is a/2). (b) Discuss the form of the dispersion relation and the nature of the normal modes when  $M_1 \neq M_2$ .

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PHYSICS 231 Homework 6 The final exam will be in class, Wednesday December 7, 4:00 - 7:00 pm. The exam will be closed book but you can bring one sheet of notes, if you wish. The topics on the exam will be closely related to the topics covered in the homework assignments. Hence part of your preparation for the exam should be to go over the HW questions. Solutions are available on the class ...

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PHYSICS 231 Homework 4 Due in class, Monday November 7 1. Periodic Potentials in One Dimension Ashcroft and Mermin, Ch. 8, Problem 1. (The question is too long to type out.) 2. Level splitting in a two-dimensional model As discussed in class, a periodic potential only mixes plane-wave states whose wave vectors differ by a reciprocal lattice vector  $G$ . Writing the wave function as  $\psi(\mathbf{r}) = e^{i\mathbf{k}\cdot\mathbf{r}}$  ...

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PHYSICS 231 Homework 3 Due in class, Wednesday October 26 1. Lack of Translational Order in One and Two Dimensions The intensity of Bragg scattering is reduced due to motion of the atoms about their equilibrium position by the Debye-Waller factor  $e^{-2W}$ , (1) where  $W = \frac{1}{2} \sum_{\mathbf{k}} \langle \mathbf{u}(\mathbf{k}) \cdot \mathbf{G} \rangle^2 n(\mathbf{k}) + \frac{1}{2}$ , (2) in which  $\mathbf{G}$  is the reciprocal lattice vector,  $n(\mathbf{k})$  is the Planck ...

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Physics 231, Introduction to Condensed Matter Physics. Instructor: Peter Young, ISB, 212 e-mail: peter@physics.ucsc.edu Time and Place: MWF 9:30-10:40 am, ISB 231 Office Hour: Thursdays, 12:00--1:30 pm. Also, at other times by appointment. Rescheduling of one lecture during Thanksgiving week: There will be no lecture on Wednesday November 23. Instead there will be a makeup lecture on Tuesday ...

~~Physics 231~~

PHYSICS 231 Homework 4, Question 4, Graphene It has recently become possible to produce samples of graphene one atom thick. A single layer of graphene consists carbon atoms in the form of a honeycomb lattice. There are four valence electrons (two 2s and two 2p electrons). Three of those participate in the chemical bonding and so are in bands well below the Fermi energy. We therefore just ...

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