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PHY 140A: Solid State Physics Solution to Homework #6 Xun Jia 1 November 17, 2006 1 Email: Fall 2006 c Xun Jia (November 17, 2006) ° Physics 140A Problem #1 Debye frequency. A monatomic, cubic material has lattice spacing of a .

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Fall 2006 Physics 140A °c Xun Jia (November 16, 2006) Remark: A general equipartition theorem states that: in thermal equilibrium, the mean value of each term in the energy proportional to $\frac{1}{2}n$ is equal to $\frac{1}{2}n kT$, where $\frac{1}{2}$ could be any independent variable, for example, momentum p or coordinate x . This is not hard to proof.

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PHY 140A: Solid State Physics Solution to Homework #4 TA: Xun Jia 1 November 5, 2006 1 Email: jiaxun@physics.ucla.edu Fall 2006 Physics 140A c Xun Jia (November 5, 2006) ° Problem #1 Problem 22.2 in Ashcroft and Mermin: Diatomic Linear Chain.

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Fall 2006 Physics 140A °c Xun Jia (November 17, 2006) In this process, we could calculate the energy loss for that particular electron: $\phi E(\mu; \vec{v}) = \frac{1}{2} m(v_x^2 + v_y^2 + v_z^2) = \frac{1}{2} m(v^2) = \frac{1}{2} m[(v_x^2 + v_y^2 + v_z^2) + 2v_x v_z \cos \mu] = (eEt)^2 \frac{2m}{\hbar^2} + vEet \cos \mu$ (11) Since right after the first collision, the electron could be along any direction with

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PHY Physics. The course is primarily for students in the physical sciences and engineering. Physics 009H is a five-quarter honors physics sequence, which may be taken instead of Physics 009. It is intended primarily for first-year students with a strong interest in physics and with advanced placement in mathematics to Mathematics 021B.

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Fall 2006 Physics 140A °c Xun Jia (December 11, 2006) When $k = 0$, $\cos ka = 1$. For the lowest energy band, we are looking for the K value closest to zero solving above equation. Since when $P = 0$, the solution is obviously $K = 0$, it is reasonable to expect that when $P \neq 1$, K will be very close to zero, namely $Ka \ll 1$. Expand Eqn. 10 for small Ka , we have: P

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PHY 140A: Solid State Physics Solution to Homework #1 TA: Xun Jia 1 October 2, 2006 1 Email: jiaxun@physics.ucla.edu Fall 2006 Physics 140A c Xun Jia (October 2, 2006) ° Problem #1 In each of the following cases indicate whether the structure is a Bravais lattice. If it is, give 3 primitive vectors; if it is not describe it as Bravais lattice ...

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