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The proposed solution is seen directly to $\psi(x) = \cos(kx) + \sin(kx)$ satisfy this and to satisfy the boundary conditions $\psi(0) = \psi(a) = 0$. (b) For $\delta \ll \lambda$, $\cos(kx) \approx 1 - \frac{1}{2}(kx)^2$ and $\sin(kx) \approx kx$. Therefore $\psi(x) \approx 1 - \frac{1}{2}(kx)^2 + kx$.

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S (basis) $1 + e^{-i\pi} = 0$. Now $S(\text{fcc}) = 0$ only if all indices are even or all indices are odd. If all indices are even the structure factor of the basis vanishes unless $v_1 + v_2 + v_3 = 4n$, where n is an integer. For example, for the reflection (222) we have $S(\text{basis}) = 1 + e^{-i3\pi} = 0$, and this reflection is forbidden.

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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. It intercepts the a' axis at 2a' and the c' axis. at 2c' ; therefore the indices referred to the primitive axes are (101). Similarly, the plane.

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Lecture 1 - Tuesday 23 August 2011 Lecture 2 - Thursday 25 August 2011 Chapter 2. Lecture 3 - Tuesday 30 August 2011

Physics 5337 - Introduction to Solid State Physics

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When I took my undergraduate solid state physics course in the mid 1970's, Kittel's textbook was in its fourth edition--at which point it had become more of a reference book rather than a primary textbook that addressed a number of topics in a reasonably complete way.

Introduction to solid state physics: [problem solutions ...

Midterm solutions. Spring break!!!! HW#7 (3/17): Due Tues 3/24 Solutions to HW#7. HW#8 (3/24): Due Tues 3/31 Solutions to HW#8. HW#9 (3/31): Due Tues 4/7 (Note: extra credit problem will not be graded in detail. It is a more challenging problem, and I encourage you to try it. Also, you are expected to look at the solution and understand it ...

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