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The proposed solution is seen directly to $\psi(x) = A e^{ikx} + B e^{-ikx}$ satisfy this and to satisfy the boundary conditions $\psi(0) = \psi(L) = 0$. (b) For $k < \pi/L$, $\psi(x) = A \cosh(kx) + B \sinh(kx)$. $\psi(0) = A = 0$, $\psi(L) = B \cosh(kL) = 0$ therefore $B = 0$. $\psi(x) = 0$.

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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 $\theta = \cos^{-1}(1/3) = 90^\circ 19' 28''$. 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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Singularity in density of states. (a) (a) From the dispersion relation derived in Chapter 4 Chapter 4 for a monatomic linear lattice of N atoms with nearest-neighbor interactions, show that the density of modes is $D(\omega) = \frac{2N}{\pi} \frac{1}{(\omega^2 - \omega_m^2)^{1/2}}$ where ω_m is the maximum frequency.

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