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Physics is seen

directly to $\psi(x) = A e^{ikx} + B e^{-ikx}$ satisfy this

and to satisfy the boundary conditions

$$\psi(0) = \psi(L) = 0 \quad (b)$$

For $k \ll \frac{\pi}{L}$, $\psi(x) = A \cos(kx) + B \sin(kx)$

$$\psi(x) = A \left[1 - \frac{k^2 x^2}{2!} + \dots \right] + B \left[kx - \frac{k^3 x^3}{3!} + \dots \right]$$

$$\psi(x) = 1 + \frac{k^2 x^2}{2!} + \dots + \left(B - \frac{k^3 x^3}{3!} + \dots \right)$$

therefore $\psi(x) = A \cos(kx) + B \sin(kx)$

$$-A \cos(kL) + B \sin(kL) = 0$$

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$S(\text{basis}) = 1 + e^{i\mathbf{v}_1} + e^{i\mathbf{v}_2} + e^{i\mathbf{v}_3}$

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 $v_1 + v_2 + v_3 =$

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$4n$, where n is an integer. For example, for the reflection (222) we have $S(\text{basis}) = 1 + e^{-i3} = 0$, and this reflection is forbidden.

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1. 1. The vectors $\hat{x} + \hat{y} + \hat{z}$ and

$\hat{x} - \hat{y} + \hat{z}$ are in the directions of two body diagonals of a cube. If θ is the angle between them, their scalar product gives $\cos \theta = -1/3$, whence $\theta = \cos^{-1}(-1/3) = 109^\circ 28'$.
 $\theta = \theta + \theta = 2\theta$.

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cube. If θ is the
angle between them,
their scalar product
gives $\cos \theta = -1/3$,
whence. $\theta = \cos^{-1} - 1/3$

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$$1/3 = 90^\circ + 19^\circ 28'$$

$$= 109^\circ 28' . 2. \text{ The}$$

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 N

atoms with nearest-

neighbor

interactions, show

that the density of

modes is $D(\omega) = 2N$

$$1 \left(\frac{2}{\omega} \right)$$

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$D(\omega) = \frac{2N}{\omega} \left(\frac{\omega}{\omega_m} \right)^2 - 1 \Big)^{1/2}$ where ω_m is the maximum frequency.

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