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In the limit of small positive P this equation will have a solution only when $Ka > 1$. Expand the sine and cosine to obtain in lowest order $\left(\frac{1}{P}\right)^{1/2} \frac{1}{Ka} \frac{1}{2}$. The energy is $\epsilon = \frac{2}{3} \frac{2}{3} \frac{2}{3} \frac{2}{3} \frac{h}{K} \frac{2m}{h} \frac{P}{ma} \dots$ (b) At $k = \pi/a$ the determinantal equation is $(P/Ka) \sin Ka + \cos Ka = -1$. In the same limit this equation has solutions $Ka = \pi + \delta$, where $\delta \ll \pi$.

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CHAPTER 2 1. The crystal plane with Miller indices hka is a plane defined by the points a/h , a/k , and a . (a) Two vectors that lie in the plane may be taken as $a(3/A - 1/h - a/k)$ and $a(1/h - a/k - 3/A)$. But each of these vectors gives zero as its scalar product with $G = hka$, so that G must be perpendicular to the plane hka .

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we have, for solutions of the form $e^{i(kz - \omega t)}$, the determinantal equation. $\epsilon_{xx} \omega^2 - c^2 k^2 \epsilon_{xy} \omega^2 = 0$. $\epsilon_{yx} \omega^2 \epsilon_{yy} \omega^2 - c^2 k^2$. 6-2 Here $\epsilon_{xx} = \epsilon_{yy} = 1 - \omega_P^2 / \omega^2$ and $\epsilon_{xy} = -\epsilon_{yx} = i \omega c \omega_P^3$. The determinantal equation gives the 2 2. dispersion relation.

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Charles Kittel did his undergraduate work in physics at M.I.T and at the Cavendish Laboratory of Cambridge University. He received his Ph.D. from

the University of Wisconsin. He worked in the solid state group at Bell Laboratories, along with Bardeen and Shockley, leaving to start the theoretical solid state physics group at Berkeley in 1951.

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