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The energy is $\epsilon = 2 \frac{2}{2} \frac{2}{2} h K 2m h P ma . / /$ (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 $1\delta \ll 1$. We expand to obtain $(\cos(\pi + \delta) - 1) \approx -2\delta^2/2 = -\delta^2$ and $\sin(\pi + \delta) \approx -\delta$, which has the solution $\delta = 0$ and $\delta = 2P/\pi$.

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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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C. Kittel, "Introduction to Solid State Physics," 8th ...

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 an reference book rather than a primary textbook that addressed a number of topics in a reasonably complete way.

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