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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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The energy is $E = 2 \hbar^2 k^2 / 2m$ // (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 $\delta \ll \pi$. We expand to obtain $(\delta/\pi) \approx -2P/\pi^2$, which has the solution $\delta = 0$ and $\delta = 2P/\pi$.

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

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