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The energy is  $\epsilon = 2 \frac{\hbar^2 k^2}{2m}$  (a) At  $k = \pi/a$  the determinantal equation is  $(P/Ka) \sin Ka + \cos Ka = -1$ . In the same limit this equation has solutions  $Ka = n + \delta$ , where  $\delta \ll 1$ . We expand to obtain  $\delta \approx \frac{1}{2} \frac{P}{K} \frac{1}{n - \delta + \dots} \approx \frac{1}{2} \frac{P}{K} \frac{1}{n}$ , which has the solution  $\delta = 0$  and  $\delta = 2P/n$ .

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cube. If  $\theta$  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 Edition, John Wiley and sons, New York, 2005. has been cited by the following article: TITLE: Ferromagnetism in Diluted Magnetic Semiconductor (Ga,Mn)As Quantum Wires and Quantum Wells under the Influence of Photo-Excitation and Spin Wave Scattering. AUTHORS: Chernet Amente, Keya Dharamvir

*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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