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$2\pi \frac{1}{a} (x + y)$ , and similarly for  $b^2, b^3 \dots a$  3. (c) Six vectors in the reciprocal lattice are shown as solid lines. The broken lines are the perpendicular bisectors at the midpoints. The inscribed hexagon forms the first Brillouin Zone.

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Expand the sine and cosine to obtain in lowest order  $\dots$   $1/PK_a^2 \dots$ . The energy is  $e = 2222hK_2mhPma \dots$ . (b) At  $k = p/a$  the determinantal equation is  $(P/K_a) \sin K_a + c \cos K_a = 1$ . In the same limit this equation has solutions  $K_a = p + d$ , where  $1d \dots$ . We expand to obtain  $\dots$   $21P12 \dots p-d + \dots d = \dots$  which has the solution  $d = 0$  and  $d = 2P/p$ .

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Charles Kittel (E) Professor Emeritus. kittel@berkeley.edu. ... American Academy of Arts and Sciences; member, National Academy of Sciences. Author: Introduction to Solid State Physics, 1st ed. 1953 - 7th ed. 1996, Quantum Theory of Solids, 1963, and (with C. Y. Fong) 1987, Thermal Physics, 1969 and (with H. Kroemer) 1980. Department of Physics

### **Charles Kittel (E) | UC Berkeley Physics**

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Here,  $C(k_x; k_y)$  are the coefficients of the Fourier components of the wave function (see Kittel), and  $k \cdot \sim 2k/2m$ . Remember, the central equation is the characteristic equation (the determinant equation which is used for finding eigenvalues) of the Hamiltonian matrix in  $k$ -space.  $\epsilon$  corresponds to energy eigenvalues.

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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 ...

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