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The energy is  $\epsilon = 2 \frac{\hbar^2 k^2}{2m} = \frac{\hbar^2 k^2}{m}$ . (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  $(\frac{P}{Ka}) \sin(\pi + \delta) + \cos(\pi + \delta) = -1$ , which has the solution  $\delta = 0$  and  $\delta = 2P/\pi$ .

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Question 2. Kronig-Penney Model (Kittel 7.3). (a) For a square well potential ( $U = 0$  for  $0 < x < a$ , and  $U = U_0$  for  $ib < x < 0$ ), consider two solutions of the Schrödinger equation:  $\hat{1} = A e^{iKx}$

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+BeiiKx for  $U = 0$ ;  $\psi'' = CeQx + DeiQx$  for  $U = U_0$ ; (2) For a square well potential, there are 4 boundary conditions. 2 of them are from continuity of

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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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