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• We have seen (Kittel Ch 2) that any periodic function can be written as Fourier series  $f(r) = \sum G f(G) \exp(i G \cdot r)$  where the  $G$ 's are reciprocal lattice vectors  $G(m_1, m_2, \dots) = m_1 b_1 + m_2 b_2 + m_3 b_3$  • Check: A periodic function satisfies  $f(r) = f(r + T)$  where  $T$  is any translation  $T(n_1, n_2, \dots) = n_1 a_1 + n_2 a_2 + n_3 a_3$  the  $n$  ...

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## Phys624

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:  $\psi = Ae^{ikx} + Be^{-ikx}$  for  $U = 0$ ;  $\psi = Ce^{Qx} + De^{-Qx}$  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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