

Chapter 3

Problem Solutions

- 3.1 If α_c were to increase, the bandgap energy would decrease and the material would begin to behave less like a semiconductor and more like a metal. If α_c were to decrease, the bandgap energy would increase and the material would begin to behave more like an insulator.

3.2
Schrodinger's wave equation

$$\frac{-\hbar^2}{2m} \frac{\partial^2 \Psi(x, t)}{\partial x^2} + V(x) \cdot \Psi(x, t) = j\hbar \frac{\partial \Psi(x, t)}{\partial t}$$

Let the solution be of the form

$$\Psi(x, t) = u(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right]$$

Region I, $V(x) = 0$, so substituting the proposed solution into the wave equation, we obtain

$$\begin{aligned} \frac{-\hbar^2}{2m} \frac{\partial}{\partial x} \left\{ jku(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right. \\ \left. + \frac{\partial u(x)}{\partial x} \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right\} \\ = j\hbar \left(-\frac{jE}{\hbar}\right) \cdot u(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \end{aligned}$$

which becomes

$$\begin{aligned} \frac{-\hbar^2}{2m} \left\{ (jk)^2 u(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right. \\ \left. + 2jk \frac{\partial u(x)}{\partial x} \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right. \\ \left. + \frac{\partial^2 u(x)}{\partial x^2} \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right\} \\ = +Eu(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \end{aligned}$$

This equation can then be written as

$$-k^2 u(x) + 2jk \frac{\partial u(x)}{\partial x} + \frac{\partial^2 u(x)}{\partial x^2} + \frac{2mE}{\hbar^2} \cdot u(x) = 0$$

Setting $u(x) = u_1(x)$ for region I, this equation becomes

$$\frac{d^2 u_1(x)}{dx^2} + 2jk \frac{du_1(x)}{dx} - (k^2 - \alpha^2) u_1(x) = 0$$

where

$$\alpha^2 = \frac{2mE}{\hbar^2}$$

Q.E.D.

In region II, $V(x) = V_{sc}$. Assume the same form of the solution

$$\Psi(x, t) = u(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right]$$

Substituting into Schrodinger's wave equation, we obtain

$$\begin{aligned} \frac{-\hbar^2}{2m} \left\{ (jk)^2 u(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right. \\ \left. + 2jk \frac{\partial u(x)}{\partial x} \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right. \\ \left. + \frac{\partial^2 u(x)}{\partial x^2} \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \right\} \\ + V_{sc} u(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \\ = Eu(x) \exp\left[j\left(kx - \left(\frac{E}{\hbar}\right)t\right)\right] \end{aligned}$$

This equation can be written as

$$\begin{aligned} -k^2 u(x) + 2jk \frac{\partial u(x)}{\partial x} + \frac{\partial^2 u(x)}{\partial x^2} \\ - \frac{2mV_{sc}}{\hbar^2} u(x) + \frac{2mE}{\hbar^2} u(x) = 0 \end{aligned}$$

Setting $u(x) = u_2(x)$ for region II, this equation becomes

$$\begin{aligned} \frac{d^2 u_2(x)}{dx^2} + 2jk \frac{du_2(x)}{dx} \\ - \left(k^2 - \alpha^2 + \frac{2mV_{sc}}{\hbar^2}\right) u_2(x) = 0 \end{aligned}$$

where

$$\alpha^2 = \frac{2mE}{\hbar^2}$$

Q.E.D.

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Richard G. Rice, Duong D. Do



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web jun 27 2022 one might argue that moral reasons are impartial but that there are other reasons that successfully compete with them reasons relating to the near and dear for example or one s own ground projects or one could hold that morality includes special reasons arising from special obligations that also morally justify our actions

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web what are reasons for action the question is multiply ambiguous first the term reason is itself infamously ambiguous a reason for an action might be a fact that explains why an agent acted or a fact that motivates the agent to act or a

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web sep 15 2003 1 the philosophical importance of moral reasoning this article takes up moral reasoning as a species of practical reasoning that is as a type of reasoning directed towards deciding what to do and when successful issuing in an intention see entry on practical reason