





| our | An election with total energy E=6 eV approaches a potential busines with height | |
|--|--|----------------|
| | No = 12 eV. If the width of businer is | -20.1 |
| | nm. wheet is the probability that the | elee |
| | will turned through the businer? | |
| | E=6eV, Vo=12eV, L=0.18 | |
| | Probability of tunneling: T = T(E) | |
| | (22) = 2m(vo-E) = 2ng.1×10-31 (6) x1.6x = (6.6) x10-34)2 | 15 x4 |
| | 2 18 | |
| The state of the s | 2 = 157.009 ×1018 | |
| | [x = 12.53 ×109] | |
| | a L = 12.53x0.18x10° = 2.255 | |
| | ear = 9.53 e-ar = 0.104 | 7.40 |
| Sign Sign Sign Sign Sign Sign Sign Sign | sinh(xL) = 9.53 = 0.104 = 4.713 | |
| | $T(E) = \begin{bmatrix} 1 + 1 & V_0^2 & \sin h^2(\alpha \omega) \end{bmatrix}^{-1}$ $= \begin{bmatrix} 1 + 1 & V_0^2 & \sin h^2(\alpha \omega) \end{bmatrix}^{-1}$ | |
| | $= \left[1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 $ | |
| | = 6.0427 | |
| | Probability of e to homnel is [0.042 | 3 |
| | | |
| A Maria | | and the second |