

E	$f(E)$
E_c	6.43×10^{-5}
$E_c + (1/2)kT$	3.90×10^{-5}
$E_c + kT$	2.36×10^{-5}
$E_c + (3/2)kT$	1.43×10^{-5}
$E_c + 2kT$	0.87×10^{-5}

(b) $T = 400\text{ K} \Rightarrow kT = 0.03453$

E	$f(E)$
E_c	7.17×10^{-5}
$E_c + (1/2)kT$	4.35×10^{-5}
$E_c + kT$	2.64×10^{-5}
$E_c + (3/2)kT$	1.60×10^{-5}
$E_c + 2kT$	0.971×10^{-5}

3.33

$$E_n = \frac{\hbar^2 n^2 \pi^2}{2ma^2} = \frac{(1.054 \times 10^{-34})^2 n^2 \pi^2}{2(9.11 \times 10^{-31})(10 \times 10^{-9})^2}$$

or

$$E_n = 6.018 \times 10^{-20} n^2 \text{ J} = 0.376 n^2 \text{ eV}$$

$$\text{For } n = 4 \Rightarrow E_4 = 6.02 \text{ eV},$$

$$\text{For } n = 5 \Rightarrow E_5 = 9.40 \text{ eV}.$$

As a 1st approximation for $T > 0$, assume the probability of $n = 5$ state being occupied is the same as the probability of $n = 4$ state being empty. Then

$$1 - \frac{1}{1 + \exp\left(\frac{E_5 - E_f}{kT}\right)} = \frac{1}{1 + \exp\left(\frac{E_4 - E_f}{kT}\right)}$$

$$\Rightarrow \frac{1}{1 + \exp\left(\frac{E_4 - E_f}{kT}\right)} = \frac{1}{1 + \exp\left(\frac{E_5 - E_f}{kT}\right)}$$

or

$$E_4 - E_f = E_5 - E_f \Rightarrow E_f = \frac{E_4 + E_5}{2}$$

Then

$$E_f = \frac{6.02 + 9.40}{2} \Rightarrow E_f = 7.71 \text{ eV}$$

3.34

(a) For 3-Dimensional infinite potential well,

$$E = \frac{\hbar^2 \pi^2}{2ma^2} (n_x^2 + n_y^2 + n_z^2)$$

$$= \frac{(1.054 \times 10^{-34})^2 \pi^2}{2(9.11 \times 10^{-31})(10^{-9})^2} (n_x^2 + n_y^2 + n_z^2)$$

$$= 0.376 (n_x^2 + n_y^2 + n_z^2) \text{ eV}$$

For 5 electrons, energy state corresponding to $n_x, n_y, n_z = 221 = 122$ contains both an electron and an empty state, so

$$E_f = (0.376)(2^2 + 2^2 + 1^2) \Rightarrow$$

$$E_f = 3.384 \text{ eV}$$

(b) For 13 electrons, energy state corresponding to $n_x, n_y, n_z = 323 = 233$ contains both an electron and an empty state, so

$$E_f = (0.376)(2^2 + 3^2 + 3^2) \Rightarrow$$

$$E_f = 8.272 \text{ eV}$$

3.35

The probability of a state at $E_1 = E_c + \Delta E$ being occupied is

$$f_1(E_1) = \frac{1}{1 + \exp\left(\frac{E_1 - E_f}{kT}\right)} = \frac{1}{1 + \exp\left(\frac{\Delta E}{kT}\right)}$$

The probability of a state at $E_2 = E_c - \Delta E$ being empty is

$$1 - f_2(E_2) = 1 - \frac{1}{1 + \exp\left(\frac{E_2 - E_f}{kT}\right)}$$

$$= 1 - \frac{1}{1 + \exp\left(\frac{-\Delta E}{kT}\right)} = \frac{\exp\left(\frac{-\Delta E}{kT}\right)}{1 + \exp\left(\frac{-\Delta E}{kT}\right)}$$

or

$$1 - f_2(E_2) = \frac{1}{1 + \exp\left(\frac{+\Delta E}{kT}\right)}$$

Hence, we have that

$$f_1(E_1) = 1 - f_2(E_2) \quad \text{Q.E.D.}$$

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Robert F. Pierret



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