

**3.36**(a) At energy  $E_i$ , we want

$$\frac{\frac{1}{\exp\left(\frac{E_i - E_F}{kT}\right)}}{\frac{1}{1 + \exp\left(\frac{E_i - E_F}{kT}\right)}} = 0.01$$

This expression can be written as

$$\frac{1 + \exp\left(\frac{E_i - E_F}{kT}\right)}{\exp\left(\frac{E_i - E_F}{kT}\right)} - 1 = 0.01$$

$$\Rightarrow 1 = (0.01) \exp\left(\frac{E_i - E_F}{kT}\right)$$

or

$$E_i = E_F + kT \ln(100)$$

Then

$$\underline{E_i = E_F + 4.6kT}$$

(b)

At  $E_i = E_F + 4.6kT$ ,

$$f(E_i) = \frac{1}{1 + \exp\left(\frac{E_i - E_F}{kT}\right)} = \frac{1}{1 + \exp\left(\frac{4.6kT}{kT}\right)}$$

which yields

$$\underline{f(E_i) = 0.00990 = 0.01}$$

**3.37**(a)  $E_F = 6.25 \text{ eV}$ ,  $T = 300 \text{ K}$ , At  $E = 6.50 \text{ eV}$ 

$$f(E) = \frac{1}{1 + \exp\left(\frac{6.50 - 6.25}{0.0259}\right)} = 6.43 \times 10^{-3}$$

or

$$\underline{6.43 \times 10^{-3} \%}$$

(b)

$$T = 950 \text{ K} \Rightarrow kT = (0.0259) \left( \frac{950}{300} \right)$$

or

$$kT = 0.0820 \text{ eV}$$

Then

$$f(E) = \frac{1}{1 + \exp\left(\frac{6.50 - 6.25}{0.0820}\right)} = 0.0453$$

or

$$\underline{4.53 \%}$$

$$(c) \quad 1 - 0.01 = \frac{1}{1 + \exp\left(\frac{-0.30}{kT}\right)} = 0.99$$

Then

$$1 + \exp\left(\frac{-0.30}{kT}\right) = \frac{1}{0.99} = 1.0101$$

which can be written as

$$\exp\left(\frac{+0.30}{kT}\right) = \frac{1}{0.0101} = 99$$

Then

$$\frac{0.30}{kT} = \ln(99) \Rightarrow kT = \frac{0.30}{\ln(99)} = 0.06529$$

So

$$\underline{T = 756 \text{ K}}$$

**3.38**

(a)

$$f(E) = \frac{1}{1 + \exp\left(\frac{7.15 - 7.0}{0.0259}\right)} = 0.00364$$

or

$$\underline{0.364 \%}$$

(b)

$$\text{At } T = 1000 \text{ K} \Rightarrow kT = 0.08633 \text{ eV}$$

Then

$$f(E) = \frac{1}{1 + \exp\left(\frac{7.15 - 7.0}{0.08633}\right)} = 0.1496$$

$$\text{or } \underline{14.96 \%}$$

(c)

$$f(E) = \frac{1}{1 + \exp\left(\frac{6.85 - 7.0}{0.0259}\right)} = 0.997$$

or

$$\underline{99.7 \%}$$

(d)

$$\text{At } E = E_F, \quad f(E) = \frac{1}{2} \quad \text{for all temperatures.}$$

**3.39**For  $E = E_i$ ,

$$f(E) = \frac{1}{1 + \exp\left(\frac{E_i - E_F}{kT}\right)} = \exp\left[\frac{-(E_i - E_F)}{kT}\right]$$

Then

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