





$$N(T) = 2 \left(\frac{M_e \cdot k_B T}{2\pi \, h^2} \right)^{3/2} \exp\left(\frac{\mu - E_c}{\kappa_B T} \right)$$

$$P(T) = 2 \left(\frac{m_h \cdot k_B T}{2\pi \pi^2} \right)^{3/2} exp \left(\frac{E_{V-L}}{a_B T} \right)$$

$$n(T) \cdot \rho(T) = \frac{1}{2} \left(m_e m_h \right)^{\frac{3}{2}} \left(\frac{k_B T}{\pi k^2} \right) \exp \left(\frac{-E_g}{k_B T} \right)$$



CHEMICAL n=p $\Rightarrow \frac{n(\tau)}{p(\tau)} = \left(\frac{m_e}{m_h}\right)^{3/2} \exp\left(\frac{+2\mu - (E_c + E_v)}{k_B T}\right) = 1$ $=) \quad \mu = \frac{E_c + E_v}{2} + \frac{3}{4} k_B T \left(\log \left(\frac{m_e}{m_b} \right) \right)$ Created with Docer

$$F_{g} = 0.6 \text{ eV}$$

$$N = \frac{1}{2} \cdot 10^{17} \exp(-10) = 2.5 \cdot 10^{12} \text{ cm}^{-3}$$

$$h = \frac{1}{10000} \frac{1}{10 \, \text{n}^3} = 10^{-5} \cdot 10^{30} \, \text{m}^{-3} = 10^{+25} \, \text{meateph With mooceries}$$

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