

Answer on Question #46475-Physics-Atomic Physics

The Fermi energy for silver is 5.48 eV. Which of the following is true : (a) the density of energy states is greater at 2 eV (b) the density of energy states is greater at 6 eV or (c) the density of energy states is same near both energies ?

Answer

At nonzero temperature Fermi gas will not be degenerate, and population levels will gradually decrease from the lower to the upper levels. As the Fermi level, you can choose the level filled with exactly half (ie, the probability of being on the level of state sought to be filled with a particle must be equal to $1/2$).

In this case true is :(a) the density of energy states is greater at 2 eV.

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