

# Part 2: Statistical physics

## Preliminary questions

1. Explain in 5 to 10 lines what is a phonon.

## Adsorption

At the surface of a solid are  $A$  sites, each of which can adsorb at most one atom. The energy of an adsorbed atom is  $\epsilon_\ell$ .

The system is in contact with a reservoir (temperature  $T$  and chemical potential  $\mu$ ).

1. Justify which ensemble can be used to describe this system.
2. Calculate the grand-partition function of this system. Each of the sites can be treated as independent sub-systems.
3. Calculate the mean number of atoms adsorbed on the solid side.
4. Calculate the mean energy of the system.

The solid is actually the wall of a container of volume  $\mathcal{V}$  in which we introduce  $N$  atoms of ideal gas at temperature  $T$ .

- 5 Calculate the temperature and the kemical potential of the ideal gas from the expression of the entropy
- 6 From the previous answer, calculate the mean number of atoms adsorbed on the wall.

2

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We now consider that the adsorbed atoms, instead of being assigned on sites, behave as an two-dimensional ideal gas, free to explore the whole surface  $S$  (we assume a square to simplify).

- 7 We recall that the states for an ideal gas are quantized such that  $\vec{k} = p_x \frac{\pi}{L} \hat{e}_x + p_y \frac{\pi}{L} \hat{e}_y$ . Assume that the gas is made of fermions. Calculate the grand-partition function of each of the states of the 2D gas, then calculate the mean number of particles  $\bar{n}_{\vec{k}}$  in for each state.
- 8 Calculate the density of states  $\rho(\epsilon_{\vec{k}})$ , using the fact that  $\epsilon_{\vec{k}} = \frac{\hbar^2 k^2}{2m}$ .
- 9 Explain why the mean number of particles of the surface can be written as:

$$\bar{N} = g \int \rho(\epsilon) \bar{n}_{\vec{k}} d\epsilon. \quad (6)$$

- 10 From previous results write the expression of the mean number of adsorbed atoms at high temperature.

# Statistical Physics Of Materials

**Michael Plischke, Birger Bergersen**



## **Statistical Physics Of Materials:**

## Unveiling the Magic of Words: A Report on "**Statistical Physics Of Materials**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Statistical Physics Of Materials**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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