

SUCCINCT NOTES ON THERMODYNAMICS AND STATISTICAL MECHANICS OF ADSORPTION



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Statistical mechanics of ideal gas in a box with

1 Answer. Note in this case that for each configuration the energy is directly proportional to the amount of bound states. So $E = c n_{\text{bound}}$ for a constant c , in this case $c = E_B = 1 \text{ eV}$. In general $E = \ln(Z)$. Plug it in for the case (a), you get $n_{\text{bound}} = N W^{1+e E_B}$. Now you want the density in the box, this is $N n_{\text{bound}} / m^3$.

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If the adsorption is zero, then we get the important result that the surface entropy per unit area is equal to minus the thermal derivative of the surface tension: $ss = d \text{ } dT$. (4.12) Normally the surface entropy is negative (the surface is less ordered than the bulk) because, experimentally, it is usually observed that $d/dT > 0$.

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Thermodynamics Approach in the Adsorption of Heavy Metals

27 Thermodynamics Approach in the Adsorption of Heavy Metals Mohammed A. Al-Anber Industrial Inorganic Chemistry, Department of Chemical Science, Faculty of Science Mu tah University, P.O. Jordan 1. Introduction Adsorption is the term that used to describe the metallic or organic materials attaching to an

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Lecture Notes on Thermodynamics and Statistical Mechanics (A Work in Progress) Daniel Arovas Department of Physics University of California, San Diego November 14, 2013 Contents

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