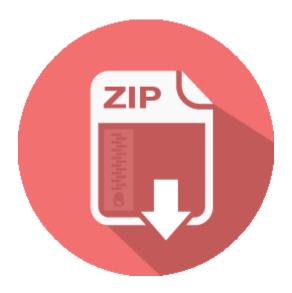
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1 Answer. Note in this case that for each configuration the energy is directly proportional to the amount of bound states. So E = c nbound for a constant c, in this case c = EB = 1 eV. In general E = ln (Z). Plug it in for the case (a), you get nbound =NW 1+e EB. Now you want the density in the box, this is N nbound 1m3. http://ebookslibrary.club/download/Statistical-mechanics-of-ideal-gas-in-a-box-with--.pdf

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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 dT. (4.12) Normally the surface entropy is negative (the surface is less ordered than the bulk) be-cause, experimentally, it is usually observed that d/dT > 0. http://ebookslibrary.club/download/Chapter-4-Statistical-mechanics-of-interfaces-UAM.pdf

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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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