

Modelling of thermodynamics of adsorption on sensor array films : application to the generalized multicomponent adsorption model of Langmuir

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Abstract: In the present study, by using of Gibbs Duhem formalism and simple mathematics, new models, which describe the response of the elements of a sensor array , have been developed .In addition , the thermodynamic behavior of the interfaces sensor array films gas mixture has been treated . Finally, the derived models were used for the generalized model of adsorption of Langmuir.

Keywords : adsorption of Langmuir, Gibbs Duhem equations, intrinsic conducting polymers, modeling, sensor array