

Category:Windows-only software Category:Windows software Category:Windows administration Category:Windows programming Category:Software development kitsContribution of surface diffusion to the gas adsorption properties of single-walled carbon nanotubes. Gas adsorption properties of pristine and functionalized single-walled carbon nanotubes (SWCNTs) have been studied with the help of temperature programmed desorption (TPD) and differential vacuum UV-vis spectroscopy (DVUV). The interaction of oxygen and water vapor with the pristine and oxidized SWCNTs is investigated by studying the TPD of these species. The DVUV analysis of pristine and oxidized SWCNTs shows that the UV-vis spectral shape changes with the presence of water molecules. The nature of the interactions of water molecules with the SWCNTs has been studied by the TPD of water vapor. Water molecules are found to interact with the surfaces of pristine and oxidized SWCNTs mainly through surface diffusion (vide infra). The surface diffusion rate of water molecules is found to be much higher on pristine than on oxidized SWCNTs. Water diffusion on pristine SWCNTs is faster than that of water on oxidized SWCNTs due to the higher diffusion coefficient of pristine SWCNTs. The interaction of water molecules with pristine and oxidized SWCNTs is studied using the TPD of water vapor. The TPD results show that water molecules chemisorb on pristine SWCNTs by diffusion. The increase in the oxygen and water vapor desorption temperature of pristine SWCNTs in the presence of water is attributed to the chemical interaction of water molecules with the SWCNTs' surface, which changes the density of states and electronic structure of the SWCNTs. The TPD spectra of oxygen and water vapor on oxidized SWCNTs suggest that the chemisorption of oxygen and water molecules on oxidized SWCNTs occurs by physisorption. The TPD results of oxygen adsorption on pristine and oxidized SWCNTs suggest that oxygen molecules physisorb on pristine and oxidized SWCNTs. A strong link is observed between oxygen desorption and chemisorption of oxygen and water molecules on the SWCNTs.Q: Matlab programming/GUI I have a problem with Matlab gui. A: It is possible to add

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