Adsorption Equilibrium of H_2, CO and CO_2 On Zeolite 5A

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Adsorption experiments for H_2, CO and CO_2 on zeolite 5A(CECA) were performed by static volumetric method in the pressure range of 0 to 20 bar at temperatures of 293.15K 303.15K and 313.15K. The Langmuir, Langmuir-Freundlich and DSL(Dual-Site Langmiur) equation were used to correlate the experimental data. In spite of the relative simplicity of isotherms, the correlation between experimental and theoretical data is good. Adsorbed amounts of single gas on zeolite 5A were compared to Li-X zeolite(UOP)