FLUID PHASE EQUILIBRIA IN POROUS MEDIA

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In this work an investigation into the liquid-vapor equilibria for simple fluids confined in porous media is presented.
Simple models have been used to represent some of the various topologies encountered in the channel networks of zeolites. Using Monte Carlo Computer Simulation techniques we have studied the influence of the pore size, the dimensionality of the channel networks and the strength of the interaction between the solid and the adsorbate upon the liquid-vapor equilibria.