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Adsorption Analysis Equilibria And Kinetics

A discussion of topics of equilibria and kinetics of adsorption in porous media. Fundamental equilibria and kinetics are dealt with for homogeneous as well as heterogeneous particles. Five chapters of the book deal with kinetics. Single component as well as multicomponent systems are discussed.

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Adsorption Analysis: Equilibria and Kinetics Duong D. Do No preview available - 1998. Adsorption Analysis: Equilibria and Kinetics, Volume 1 Duong D. Do No preview available - 1998. References to this book.

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This book covers topics of equilibria and kinetics of adsorption in porous media. Fundamental equilibria and kinetics are dealt with for homogeneous as well as heterogeneous particles. Five chapters of the book deal with equilibria and eight chapters deal with kinetics. Single component as well as multicomponent systems are discussed.

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To properly understand an adsorption process, we must understand these two basic ingredients: equilibria and kinetics, the analysis of which is the main theme of this book. 1.2 Basis of Separation The adsorption separation is based on three distinct mechanisms: steric, equilibrium, and kinetic mechanisms.

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Adsorption equilibria and kinetics of the adsorbates on silica gel and AC were evaluated and compared. Adsorption isotherms were fitted using the Langmuir model and temperature-dependent Sips models, and isosteric heats of adsorption were calculated using the Clausius-Clapeyron equation.

Adsorption equilibria and kinetics of silica gel for N₂ ...

DOI: 10.1142/9781860943829 Corpus ID: 92026994. Adsorption analysis : equilibria and kinetics @inproceedings{Do1998AdsorptionA, title={Adsorption analysis : equilibria and kinetics}, author={Duong D.

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On the basis of a molecular model for adsorption kinetics Jäntti [1,2] introduced a method for the fast calculation of adsorption equilibria. He measured the actual adsorbed amount at three times shortly after a change of the sorptive gas pressure. The method was designed for use in the case of an adsorption satisfying the equation

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The adsorption kinetics was evaluated through the analysis of breakthrough curves obtained at the same temperature for different feed humidity values. The fixed bed behavior was described using an isothermal model that includes axial dispersion and external (film model) and internal (homogeneous LDF model) mass transfer resistances.

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What is the difference between high rate of adsorption and ...

The batch conjugation kinetic data were obeyed by the pseudo-second-order kinetic model rather than the pseudo-first-order and Elovich kinetic models. Equilibrium conjugation isotherms were explained well by the Langmuir isotherm model, and the highest extent of Zn(tpps) bound to chitosan was obtained to be 151.52 $\mu\text{mol/g}$ at 45 °C.

Conjugation of insulin-mimetic [meso -tetrakis(4 ...

The adsorption of crystal violet dye from aqueous solutions onto an activated carbon prepared from peanut shells was analyzed in this study. The effects of particle size, initial concentration, time and temperature on crystal violet removal were studied in batch experiments. Experimental results showed that the adsorption equilibrium was achieved within 100 min for all studied concentrations....

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