



Adsorption

By Frederic P. Miller

Alphascript Publishing Nov 2009, 2009. Taschenbuch. Condition: Neu. Neuware - Adsorption is the accumulation of atoms or molecules on the surface of a material. This process creates a film of the adsorbate (the molecules or atoms being accumulated) on the adsorbent's surface. It is different from absorption, in which a substance diffuses into a liquid or solid to form a solution. The term sorption encompasses both processes, while desorption is the reverse process of 'adsorption'. In simple terms, adsorption is 'the collection of a substance onto the surface of adsorbent solids.' It is a removal process where certain particles are bound to an adsorbent particle surface by either chemical or physical attraction. Adsorption is often confused with absorption, where the substance being collected or removed actually penetrates into the other substance. Adsorption is present in many natural physical, biological, and chemical systems, and is widely used in industrial applications such as activated charcoal, capturing and using waste heat to provide cold water for air conditioning and other process requirements (adsorption chillers), synthetic resins, and water purification. 104 pp. Englisch.

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