

*Adsorption Ion Exchange And Catalysis Design Of Operations And  
Environmental Applications By Stavros G Pouloupoulos 2006 10 23*







### **Adsorption Ion Exchange And Catalysis**

Adsorption, Ion Exchange and Catalysis is essentially a mixture of environmental science and chemical reactor engineering. More specifically, three important heterogeneous processes, namely, adsorption, ion exchange and catalysis, are analysed, from fundamental kinetics to reactor design with emphasis on their environmental applications.

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A comprehensive overview of adsorption and ion exchange technology applied for food and nutraceutical production purposes is given in the present paper. Emanating from these fields of application, the main adsorbent and ion-exchange resin materials, their historical development, industrial production, and the main parameters characterizing these sorbents are covered.

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Adsorption, ion exchange, and catalysis share a great portion of environmental applications, as shown in the next section, and more extensively, in Chapter 2. Specifically, adsorption and catalysis are extensively used for the removal or destruction of air pollutants in gas streams as well as for purifying wastewaters or fresh water. Ion ...

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In this book, three important processes, namely, adsorption, ion exchange, and heterogeneous catalysis, are presented along with environmental issues. Specifically, this book is essentially a mixture of environmental science (Chapters 1 and 2) and chemical reactor engineering (Chapters 3 to 6).

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### **Adsorption, Ion Exchange and Catalysis: Design of ...**

Adsorption is the adhesion of atoms, ions or molecules from a gas, liquid or dissolved solid to a surface. This process creates a film of the adsorbate on the surface of the adsorbent. This process differs from absorption, in which a fluid (the adsorbate) is dissolved by or permeates a liquid or solid (the adsorbent), respectively. Adsorption is a surface phenomenon, while absorption involves ...

### **Adsorption - Wikipedia**

Studies on natural STI zeolite: modification, structure, adsorption and catalysis. ... Both ion exchange and dealumination can stabilize the framework of the zeolite. ... (NMR) were used to investigate the reason why the zeolite is more stable. The properties of adsorption and catalysis of the zeolite were investigated as well. 2. Experimental 2.1.

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