



Activated Carbon Adsorption

Roop Chand Bansal, Meenakshi Goyal

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High surface area, a microporous structure, and a high degree of surface reactivity make activated carbons versatile adsorbents, particularly effective in the adsorption of organic and inorganic pollutants from aqueous solutions. **Activated Carbon Adsorption** introduces the parameters and mechanisms involved in the activated carbon adsorption of organic and inorganic compounds. This text brings together the most significant research on surface structure and processes, adsorption theories and isotherm equations, and applications from the latest literature on carbon adsorption.

The book clearly explains the surface-related interactions of activated carbons, their energetics, and the applicability of adsorption isotherm equations and their deviation from adsorption data. It then explores numerous applications in a wide range of areas, such as nuclear technology, vacuum technology, food technology, pharmaceuticals and medicine, gas storage, oil refining, and environmental remediation. **Topics include:** oils and fats, molecular sieves, refining of liquid fuels, pesticides, dyes, drugs, and toxins. Three chapters are dedicated to environmental applications, including the adsorption of halogenated organic compounds and the removal of hazardous gases and vapors, organo-sulphur compounds, and other inorganic compounds from wastewater and groundwater.

Activated Carbon Adsorption presents a complete survey of the growing number of state-of-the-art applications supported by a compilation of the latest perspectives in research concerning carbon surfaces and their adsorption processes from aqueous solutions. Its unified approach promotes further research towards improving and developing newer activated carbon adsorbents and processes for the efficient removal of pollutants from drinking water and industrial effluents.

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James Atkinson:

The guide untitled Activated Carbon Adsorption is the reserve that recommended to you to study. You can see the quality of the reserve content that will be shown to you actually. The language that creator use to explained their way of doing something is easily to understand. The article writer was did a lot of exploration when write the book, so the information that they share for you is absolutely accurate. You also could possibly get the e-book of Activated Carbon Adsorption from the publisher to make you more enjoy free time.

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