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Activated Carbon Adsorption (Hardback)

By Roop Chand Bansal, Meenakshi Goyal

Taylor Francis Inc, United States, 2005. Hardback. Book Condition: New. 244 x 155 mm. Language: English . Brand New Book. 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...



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Reviews

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