



Activated Carbon Surfaces in Environmental Remediation (Interface Science and Technology)

By Teresa J. Bandosz

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Activated Carbon Surfaces in Environmental Remediation provides a comprehensive summary of the environmental applications of activated carbons. In order to understand the removal of contaminants and pollutants on activated carbons, the theoretical bases of adsorption phenomena are discussed. The effects of pore structure and surface chemistry are also addressed from both science and engineering perspectives. Each chapter provides examples of real applications with an emphasis on the role of the carbon surface in adsorption or reactive adsorption. The practical aspects addressed in this book cover the broad spectrum of applications from air and water cleaning and energy storage to warfare gas removal and biomedical applications.

This book can serve as a handbook or reference book for graduate students, researchers and practitioners with an interest in filtration, water treatment, adsorbents and air cleaning, in addition to environmental policies and regulations.

- Addresses fundamental carbon science and how it relates to applications of carbon surfaces
- Describes the broad spectrum of activated carbon applications in environmental remediation
- Serves as a handbook or reference book for graduate students, researchers and practitioners in the field

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