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Nota di contenuto	1. Sorption of Pollutants in Wastewater Solids -- 2. Coconut Shell Charcoal Adsorption to Remove Methyl Orange in Aqueous Solutions -- 3. Sorption Isotherms and Some Functional Properties of Cowpea Varieties Flour -- 4. Transition Metals-Based Metal-Organic Frameworks, Synthesis, and Environmental Applications -- 5. Adsorption and Its Applications: Using Zinc Adsorption on Water Hyacinth to Elaborate the Kinetics and Thermodynamics of Adsorption -- 6. Adsorption of Chromium from an Aqueous Solution onto Chitosan Beads Modified with Sodium Dodecyl Sulfate (SDS).
Sommario/riassunto	The book presents a comprehensive overview of sorption, which is a multi-parametric separation process. It is extensively used in the removal of various pollutants from the tertiary stage of wastewater treatment, from leachates, etc. It discusses fundamental points of the technique as well as kinetic theories and isotherms. It also examines the synthesis and characterizations of all studied adsorbent materials to find their paths of sorption. Finally, it highlights the importance of having a cost-estimation plan for the synthesis of sorbent materials as well as predictions for their reusability.