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Descrizione fisica	1 online resource (148 pages)
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Soggetti	Chemisorption Surface chemistry
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Nota di contenuto	Contents -- Preface -- Chapter 1 -- Chemisorption Analysis by a Pulse Flow System for the Determination of Metal Nanosize -- Abstract -- Introduction -- Palladium -- Synthesis of the Pd-Based Catalysts -- Nickel -- Synthesis of the Ni-Based Catalysts [17] -- Platinum -- Synthesis of the Pt-Based Catalysts -- Copper -- Synthesis of the Cu-Based Catalysts -- Gold -- Synthesis of the Au-Based Catalysts -- Conclusion -- References -- Chapter 2 -- Features of Chemisorption Processes on the Surface of Meso- and Microporous Silicas -- Abstract -- Introduction -- Methods -- Synthesis on Mesoporous Silica SBA-15 -- Changes in the SBA-15 Surface Morphology -- Surface Morphology of MT-17a -- Synthesis on Silica MT-17a -- Conclusion -- References -- Biographical Sketches
Sommario/riassunto	This book, edited by Matthan Norup, explores the properties, reactions, and applications of chemisorption, focusing on its role in surface chemistry and materials science. It includes detailed analyses of chemisorption processes, such as the determination of metal nanosize in heterogeneous catalysts using pulse flow systems, and the synthesis of titanium oxide coatings on porous silica. Additionally, it reviews kinetic models of salt-ammonia chemisorption cycles relevant for heat pumps, thermal storage, and power generation. The book also examines the impact of chemisorption on surface properties, with

applications in industrial processes such as the enhancement of Portland cement. Aimed at researchers and professionals in chemistry and materials science, it provides insights into advanced chemisorption techniques and their practical applications.
