

Electron Microscopy in Heterogeneous Catalysis (Series in Microscopy in Materials Science)



Catalysis is one of the most important technologies in the industrial world, controlling more than 90% of industrial chemical processes and essential for large-scale production of plastics and fuel. Exploring the most common type of catalysis used in industry, Electron Microscopy in Heterogeneous Catalysis provides a coherent account of heterogeneous catalytic processes and catalyst surface structure at the atomic scale as elucidated by electron microscopy techniques. The book addresses a number of issues that are fundamental to the understanding of heterogeneous catalysis by oxides and supported metals. The properties of a catalyst are governed by its microstructure and chemistry on an atomic scale, and electron microscopy methods are essential to directly analyze these properties. The book provides important information about active species, metastable-transient species, mechanisms of particle catalysis sintering, promoter-poisoning effects on an atomic scale, and catalyst support interactions on a microscale.

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