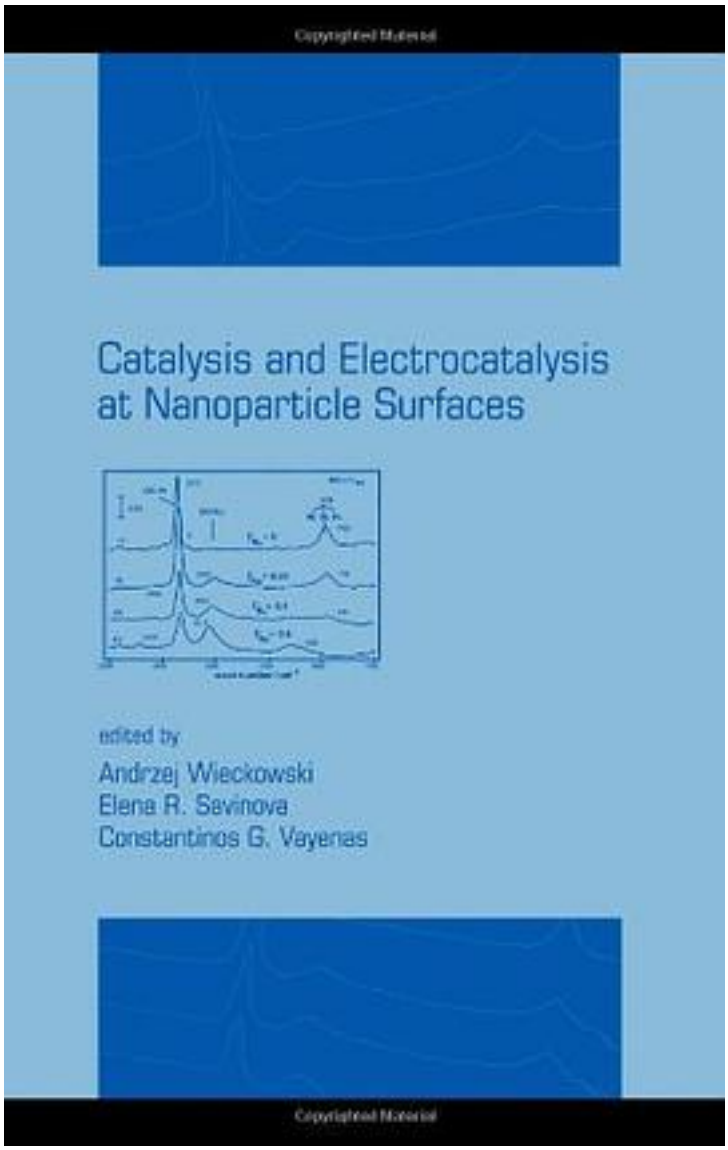
Catalysis and Electrocatalysis at Nanoparticle Surfaces



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出版者:

出版时间:2003-2

装帧:

isbn:9780824708795

"Catalysis and Electrocatalysis at Nanoparticle Surfaces" illustrates the latest developments in electrochemical nanotechnology, heterogeneous catalysis, surface science, and theoretical modeling. It describes the manipulation, characterization, control, and application of nanoparticles for enhanced catalytic activity and selectivity and presents a range of experimental and synthetic strategies for work in nanoscale surface science."Catalysis and Electrocatalysis at Nanoparticle Surfaces" discusses practical methods to control the size, shape, crystal structure, and composition of nanoparticles simulate metal-support interactions predict nanoparticle behavior enhance catalytic rates in gas phases examine catalytic functions on wet and dry surfaces study the reactivity of supported single nanoparticles. This is a comprehensive source for physical, surface, and colloid chemists; materials scientists; interfacial chemists and electrochemists; electrochemical engineers; theoretical physicists; chemical engineers; and, upper-level undergraduate and graduate students in these disciplines.

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