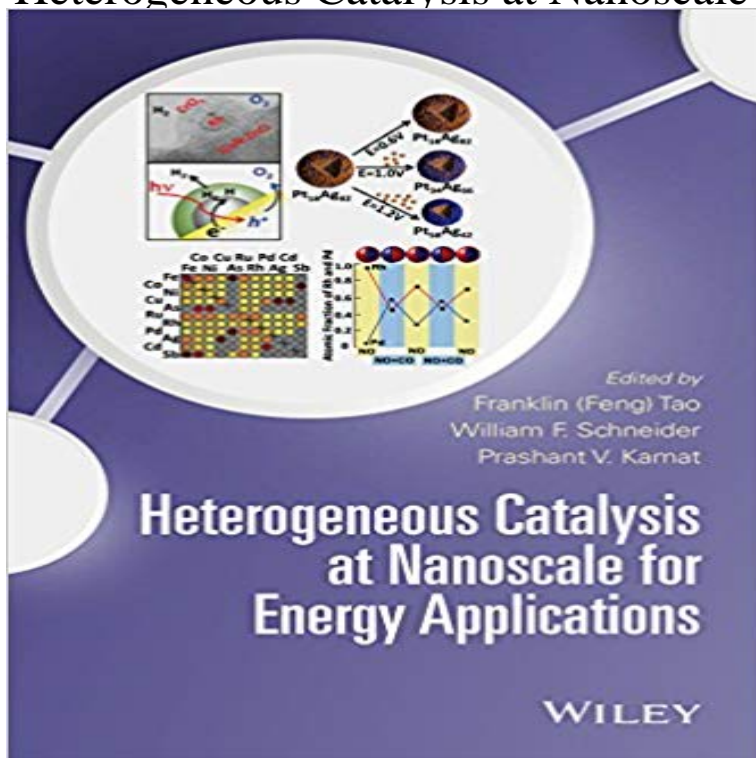


# Heterogeneous Catalysis at Nanoscale for Energy Applications



This book presents both the fundamentals concepts and latest achievements of a field that is growing in importance since it represents a possible solution for global energy problems. It focuses on anatomic-level understanding of heterogeneous catalysis involved in important energy conversion processes. It presents a concise picture for the entire area of heterogeneous catalysis with vision at the atomic- and nano- scales, from synthesis, ex-situ and in-situ characterization, catalytic activity and selectivity, to mechanistic understanding based on experimental exploration and theoretical simulation. The book:

Addresses heterogeneous catalysis, one of the crucial technologies employed within the chemical and energy industries Presents the recent advances in the synthesis and characterization of nanocatalysts as well as a mechanistic understanding of catalysis at atomic level for important processes of energy conversion Provides a foundation for the potential design of revolutionarily new technical catalysts and thus the further development of efficient technologies for the global energy economy Includes both theoretical studies and experimental exploration Is useful as both a textbook for graduate and undergraduate students and a reference book for scientists and engineers in chemistry, materials science, and chemical engineering

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