



Concepts of Modern Catalysis and Kinetics

By I. Chorkendorff

Wiley VCH Verlag GmbH Aug 2007, 2007. Buch. Book Condition: Neu. 246x174x30 mm. Neuware - Rund 90% aller chemischen Prozesse in der Industrie beinhalten katalytische Methoden. Die heterogene Katalyse spielt hierbei eine außerordentlich große Rolle, und damit verbunden auch kinetische Vorgänge. Bislang beschreibt die Literatur nur oberflächlich kinetische Grundlagen und deren Anwendung bei katalytischen Reaktionen. Dieses Buch umspannt den vollen Bereich von den Grundlagen bis zu den Anwendungen der heterogenen Katalyse mithilfe moderner experimenteller Verfahren, kombiniert mit theoretischen Betrachtungen anhand von Modellsystemen. Dieses Wissen ist essentiell für Studenten an Technischen Hochschulen und Berufseinsteigern in der Industrie. Until now, the literature has offered a rather limited approach to the use of fundamental kinetics and their application to catalytic reactions. Subsequently, this book spans the full range from fundamentals of kinetics and heterogeneous catalysis via modern experimental and theoretical results of model studies to their equivalent large-scale industrial production processes. This second edition includes significant new developments, with all the chapters updated by way of recent examples and relevant new literature. With its focus on practical application, rather than theory, the result is key knowledge for students at technical universities and professionals already working in industry. From Reviews of the First Edition:...



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