Kinetic Models Of Catalytic Reactions. Comprehensive Chemical Kinetics, Volume 32.

This book has been written by a group of mathematicians and chemists whose common interest is in the complex dynamics of catalytic reactions. Based on developments in mathematical chemistry, a general theory is described that allows the investigation of the relationships between the kinetic characteristics of complex reactions and their detailed reaction mechanism. Furthermore, a comprehensive analysis is made of some typical mechanism of catalytic reactions, in particular for the oxidation of carbon monoxide on platinum metals. In fact, the book presents three kinetics: (a) detailed, oriented to the elucidation of a detailed reaction mechanism according to its kinetic laws; (b) applied, with the aim of obtaining kinetic relationships for the further design of chemical reactors; and (c) mathematical kinetics whose purpose is the analysis of mathematical models for heterogeneous catalytic reactions taking place under steady- or unsteady-state conditions. EAN/ISBN : 9780080868264 Publisher(s): Elsevier Science & Technology Format: ePub/PDF Author(s): Yablonskii, A. N. G. S. Bykov V. I. - Elokhin V. I. - Gorban'

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