

CRC

**NONEQUILIBRIUM
PROCESSES**
in
CATALYSIS

Oleg V. Krylov
Boris R. Shub

Nonequilibrium Processes In Catalysis

OV. KRYLOV



Nonequilibrium Processes In Catalysis:

Nonequilibrium Processes in Catalysis Oleg V. Krylov, 2018-01-18 *Nonequilibrium Processes in Catalysis* presents modern ideas and experimental data e g molecular beams laser technique on adsorption and catalysis the mechanism of energy exchange in the processes of particles interaction with a surface and the lifetimes of excited particles on a surface Previously unpublished theoretical information regarding the principle of chemoenergetical stimulation accounting for the acceleration of one reaction at the expense of reactant excitation in another is provided and new ideas about nonequilibrium surface diffusion are explored Examples of the formation of nonequilibrium dissipative structures in catalysis are presented including auto oscillations auto waves multiplicity of kinetic regimes nonequilibrium phase transition and decelerated electron exchange between solid and adsorbed species The book also describes new experimental methods for studying nonequilibrium and quick processes in catalysis *Nonequilibrium Processes in Catalysis* will benefit physicists involved with surface science chemists involved with adsorption and catalysis engineers vacuum scientists physical chemists materials chemists students and others interested in these processes **Nonequilibrium Processes in Catalysis** OV. KRYLOV, 1994

Thermodynamics of Non-Equilibrium Processes for Chemists with a Particular Application to Catalysis V. Parmon, 2009-09-26 *Thermodynamics of Non Equilibrium Processes for Chemists with a Particular Application to Catalysis* consists of materials adapted from lectures on the thermodynamics of nonequilibrium processes that have been taught at the Department of Natural Sciences of Novosibirsk State University since 1995 The thermodynamics of nonequilibrium processes traditionally required students to have a strong background in physics However the materials featured in this volume allow anyone with knowledge in classical thermodynamics of equilibrium processes and traditional chemical kinetics to understand the subject Topics discussed include systems in the thermodynamics of irreversible processes thermodynamics of systems that are close to and far from equilibrium thermodynamics of catalysts the application of nonequilibrium thermodynamics to material science and the relationship between entropy and information This book will be helpful for research into complex chemical transformations particularly catalytic transformations Applies simple approaches of non equilibrium thermodynamics to analyzing properties of chemically reactive systems Covers systems far from equilibrium allowing the consideration of most chemically reactive systems of a chemical or biological nature This approach resolves many complicated problems in the teaching of chemical kinetics **Heterogeneous Catalysis** Georgii Konstantinovich Boreskov, 2003 Table of contents *Bimodal Oxidation* Robert Bakhtchadjian, 2019-11-15 This book is devoted to the problems of oxidation chemical reactions and addresses bimodal reaction sequences Chemical reactions of oxidation occurring under certain conditions and in multicomponent systems are complex processes The process of the oxidation essentially changes in the presence and contact of the solid substances with reactants The role of solid substances and the appearance of this phenomenon in oxidation reaction are discussed The reader will understand the driving forces of this

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Kinetics and Catalysis ,1986 Plasma Assisted Combustion and Chemical Processing Yiguang Ju,Andrey

Starikovskiy,2025-03-18 Plasma Assisted Combustion and Chemical Processing provides an introduction to the opportunities of plasma assisted combustion and chemical processing for green energy conversion using renewable electricity Covering the fundamentals of combustion and plasma physics and chemistry it details the mechanisms and technologies of plasma enhanced combustion chemical process materials manufacturing and recycling and pollutant control Addressing future challenges and opportunities of plasma assisted combustion and electrified green manufacturing this book covers the state of art methods of modeling and diagnostic tools to optimize the process design This book offers graduate students and researchers a comprehensive review of the fundamentals and research frontier in this emergent field Chapter 5 of this book is freely available as a downloadable Open Access PDF at [http www taylorfrancis com](http://www.taylorfrancis.com) under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

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Heterogeneous Catalytic Reactions Involving Molecular Oxygen G.I. Golodets,1983 Preparation of Catalysts II

Handbook of Heterogeneous Catalysis, 5 Volume Set Gerhard Ertl,Helmut Knözinger,Jens Weitkamp,1997-05-15 The first comprehensive survey of the principles and applications of heterogeneous catalysis Starting with the invention of D bereiner s tinder box and reaching importance with Haber s development of ammonia synthesis heterogeneous catalysis has become a multi billion dollar business Simultaneously literature on heterogeneous catalysis has become increasingly widespread and difficult to follow This handbook collects the available knowledge on heterogeneous catalysis and provides the reader with easy to find yet comprehensive information With contributions from more than 200 leading experts from all over the world it covers all aspects of the subject from physico chemical foundations to large scale industrial applications With its highly topical contributions the straightforward presentation of the material and its comprehensive coverage this handbook sets new standards Saving you the time for laborious searches for information it is an indispensable tool for every scientist

working in heterogeneous catalysis Electronic Phenomena in Adsorption and Catalysis on Semiconductors and Dielectrics Vsevolod F. Kiselev, Oleg V. Krylov, 1987-04-30 It is now firmly established that various adsorptive and catalytic processes taking place on the surface of semiconductors and in MIS structures strongly influence their electronic properties and hence modify the parameters of semiconductor devices The inverse problem of how the semiconductor's electronic subsystem influences adsorption and dissociation of molecules at the surface has been recognized but much less explored The main purpose of the present book is to generalize the experimental data and explain the relationship between these two classes of phenomena We also discuss tentative models of surface electronic states and their interaction with adsorbed molecules The subject of this book should attract the attention of researchers working in the overlapping areas of physics and chemistry and of physics and biology The research done in this field will help to widen the scope of semiconductor applications by finding novel ways of employing surface effects in the construction of microelectronic devices semiconductor gas analysers solar cells etc The authors hope that this book will be useful to a wide circle of chemists and physicists concerned with the study of interphase phenomena and questions of adsorption and catalysis Certain parts of the book will be helpful to physicists and technicians working in rapidly developing branches of semiconductor physics and technology The book can also serve as a textbook for both under and postgraduates specializing in this field *Russian Journal of Physical Chemistry*, 2007 *Comprehensive Chemical Kinetics* C. H. Bamford, Charles Frank Howlett Tipper, 1969 *Surface and Catalytic Properties of Molybdenum Nitrides* Jeong-Gil Choi, 1992 *Theoretical Foundations of Chemical Engineering*, 1970 *The Petroleum Engineer*, 1945 *Macromolecules* Henri Benoît, P. Rempp, 1982 Macromolecules covers the papers presented in the 27th International Symposium on Macromolecules that tackles themes that represent the trend of development in the field of macromolecular science The book presents papers from qualified lecturers who discuss not only their work but also the state of knowledge developments and applications in the field in which they are involved The text covers topics ranging from polymer chemistry polymer physics to polymer technology that illustrate the diversity of the interest of researchers involved in polymer science and show the pluridisciplinarity

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