

Kinetics and Mechanism: A Study of Homogenous Chemical Reactions

Frost, A A Pearson, R G

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Kinetics Mechanism A Study Of Homogene

Alexander S. Shteinberg



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Analysis of Kinetic Reaction Mechanisms Tamás Turányi, Alison S. Tomlin, 2014-12-29 Chemical processes in many fields of science and technology including combustion atmospheric chemistry environmental modelling process engineering and systems biology can be described by detailed reaction mechanisms consisting of numerous reaction steps This book describes methods for the analysis of reaction mechanisms that are applicable in all these fields Topics addressed include how sensitivity and uncertainty analyses allow the calculation of the overall uncertainty of simulation results and the identification of the most important input parameters the ways in which mechanisms can be reduced without losing important kinetic and dynamic detail and the application of reduced models for more accurate engineering optimizations This monograph is invaluable for researchers and engineers dealing with detailed reaction mechanisms but is also useful for graduate students of related courses in chemistry mechanical engineering energy and environmental science and biology

Kinetics of Homogeneous Multistep Reactions Friedrich G. Helfferich, 2001-01-25 This book addresses primarily the chemist and engineer in industrial research and process development where competitive pressures put a premium on scale up by large factors to cut development time To be safe such scale up should be based on fundamental kinetics that is mathematics that reflect the elementary steps of which the reactions consist The book forges fundamental kinetics into a practical tool by presenting new effective methods for elucidation of mechanisms and reduction of mathematical complexity without unacceptable sacrifice in accuracy

Mechanisms in Homogeneous and Heterogeneous Epoxidation Catalysis S. Ted Oyama, 2011-10-13 The catalytic epoxidation of olefins plays an important role in the industrial production of several commodity compounds as well as in the synthesis of many intermediates fine chemicals and pharmaceuticals The scale of production ranges from millions of tons per year to a few grams per year The diversity of catalysts is large and encompasses all the known categories of catalyst type homogeneous heterogeneous and biological This book summarizes the current status in these fields concentrating on rates kinetics and reaction mechanisms but also covers broad topics including modeling computational simulation process concepts spectroscopy and new catalyst development The similarities and distinctions between the different reaction systems are compared and the latest advances are described Comprehensive listing of epoxide products Broad comparison of turnover frequencies of homogeneous heterogeneous main group biomimetic and biological catalysts Analysis of the general strengths and weaknesses of varied catalytic systems Detailed description of the mechanisms of reaction for classical and emerging catalysts

Kinetics and Mechanism Arthur A. Frost, Ralph G. Pearson, 1958

Kinetic Mechanisms Governing the Fate of Chemically Bound Sulfur and Nitrogen in Combustion C. V.

Sternling, 1972

Fundamental Research in Homogeneous Catalysis M. Tsutsui, 2012-12-06 During the 70 s it has become drastically apparent that our natural resources including energy are not in unlimited supply This realization is strongly felt in the economic turmoil that is occurring but its effects will penetrate into other areas even causing moderate social changes

Chemists play a major role in converting the world's natural resources into products. The public consumes these products and now depends upon them to keep the high standard of living to which they have become accustomed. This topic could easily be expounded into a whole article but it is sufficient to say that almost everything from the use of lightweight strong polymers which are replacing the use of metals in today's automobiles to the curing of diseases with asymmetrically synthesized drugs is related to the endeavors of chemistry. Catalysts have played a major role in transforming resources to useful products. Since a catalyst lowers the activation energy required for a particular reaction and often for only one specific pathway where normally many exist it is not surprising within the extant climate that researchers are now increasing their efforts and focusing their priorities on improving and discovering more efficient and selective catalysts.

Homogeneous Catalysis Concepts and Basics Mohammad Reza Rahimpour, Mohammad Amin Makarem, Tayeb Roostaie, Maryam Meshksar, 2024-08-15 Homogeneous Hydrogenation and Metathesis Reactions a volume in the Advances in Catalysis series covers hydrogenation and metathesis reactions in two separate sections. The first section is devoted to homogeneous hydrogenation reactions and related processes including hydrogenation of alkenes, esters, olefins, etc. In the second section the metathesis reactions of olefins, alkenes, and alkynes are presented. In addition, the industrial application of homogeneous metathesis reactions is investigated. Includes thermodynamic and kinetic studies of homogeneous catalysts. Describes transition metal ligand and solvent role in homogeneous catalysts. Explains preparation, characterization, deactivation, and regeneration of homogeneous catalysts. Presents homogeneous catalysts by clusters, carbenes, fixed metal complexes, and liquid-liquid multiphase catalysts.

Kinetics of Heterogeneous Solid State Processes Pritam Deb, 2013-12-03 Kinetic studies have traditionally been extremely useful in characterizing several physical and chemical phenomena in organic, inorganic, and metallic systems. It provides valuable qualitative, quantitative, and kinetic information on phase transformations, solid state precipitation, crystallization, oxidation, and decomposition. Unfortunately, no single reference comprehensively presents nonisothermal kinetic analysis method for the study of complex processes, determining the actual mechanism and kinetic parameters. This book provides a new method for nonisothermal kinetics and its application in heterogeneous solid state processes. In the backdrop of limitations in existing methods, the book presents a brief review of the widely used isothermal and nonisothermal kinetic analysis methods.

Mechanisms in Homogeneous Catalysis Brian Heaton, 2006-03-06 While chemists using spectroscopic methods need to learn from the specialists, they do not normally read the spectroscopists' original papers. This book provides this very information, summarizing some recent advances in the mechanistic understanding of metallocene polymerization catalysts and the role of NMR spectroscopy in these endeavors. Adopting a real practice-oriented approach, the authors focus on two of the most important spectroscopic techniques, with two parts devoted to each of NMR and IR spectroscopy, as well as on important industrial applications with regard to the reaction discussed. Rather than providing a complete and exhaustive review of homogeneous hydrogenation and its detailed mechanisms, the

book focuses on the specific spectroscopic techniques and the mechanistic information that has been obtained from their application. The result is unique in its scope, allowing chemists from different fields to learn which techniques can be applied for their specific synthetic problems. The prizewinning editor Professor Brian Heaton is the key player in the field and has brought together here a team of authors to cater for specialists and researchers in industry and academia. U.S.

Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974

Homogeneous Catalysis and Mechanisms in Water and Biphasic Media Luca Gonsalvi, 2019-02-15 This book is a printed edition of the Special Issue Homogeneous Catalysis and Mechanisms in Water and Biphasic Media that was published in Catalysts

Homogeneous Catalysis with Metal Complexes Oleg N. Temkin, 2012-02-08 Homogeneous catalysis by soluble metal complexes has gained considerable attention due to its unique applications and features such as high activity and selectivity. Catalysis of this type has demonstrated impressive achievements in synthetic organic chemistry and commercial chemical technology. Homogeneous Catalysis with Metal Complexes: Kinetic Aspects and Mechanisms presents a comprehensive summary of the results obtained over the last sixty years in the field of the kinetics and mechanisms of organic and inorganic reactions catalyzed with metal complexes. Topics covered include: Specific features of catalytic reaction kinetics in the presence of various mono and polynuclear metal complexes and nanoclusters; Multi route mechanisms and the methods of their identification as well as approaches to the kinetics of polyfunctional catalytic systems; Principles and features of the dynamic behavior of nonlinear kinetic models; The potential achievements and limitations of applying the kinetic approach to the identification of complex reaction mechanisms; The development of a rational strategy for designing kinetic models; The kinetic models and mechanisms of many homogeneous catalytic processes employed in synthetic and commercial chemistry. Written for specialists in the field of kinetics and catalysis, this book is also relevant for post graduates engaged in the study. **Advanced Chemical Kinetics**

Muhammad Akhyar Farrukh, 2018-02-21 The book on Advanced Chemical Kinetics gives insight into different aspects of chemical reactions both at the bulk and nanoscale level and covers topics from basic to high class. This book has been divided into three sections: i Kinetics Modeling and Mechanism; ii Kinetics of Nanomaterials; and iii Kinetics Techniques. The first section consists of six chapters with a variety of topics like activation energy and complexity of chemical reactions, the measurement of reaction routes, mathematical modeling, analysis and simulation of enzyme kinetics, mechanisms of homogeneous charge compression ignition combustion for the fuels, photophysical processes and photochemical changes, the mechanism of hydroxyl radical hydrate electron and hydrogen atom and acceptorless alcohol dehydrogenation. The understanding of the kinetics of nanomaterials to bridge the knowledge gap is presented in the second section. The third section highlights an overview of experimental techniques used to study the mechanism of reactions. *Fast Reactions in Energetic Materials* Alexander S. Shteinberg, 2008-09-26 Modern energetic materials include explosives, blasting powders

pyrotechnic mixtures and rocket propellants 1 2 The study of high temperature decomposition of condensed phases of propellants and their components liquid solid and hybrid is currently of special importance for the development of space system engineering 3 4 To better understand the burning mechanisms stationary nonstationary steady of composite solid propellants and their components information about the macrokinetics of their high temperature decomposition is required 5 To be able to evaluate the ignition parameters and conditions of safe handling of heat affected explosives one needs to know the kinetic constants of their high temperature composition The development of new composite solid propellants characterized by high performance characteristics high burning rates high thermal stability stability to intrachamber perturbations and other aspects is not possible without quantitative data on the high temperature decomposition of composite solid propellants and their components 6 The same reasons have resulted in significant theoretical and practical interest in the high temperature decomposition of components of hybrid propellants It is known that hybrid propellants have not been used very widely due to the low burning pyrolysis rates of the polymer blocks in the combustion chambers of hybrid rocket engines To increase the burning rates it is necessary to obtain information about their relationships to the corresponding kinetic and thermophysical properties of the fuels

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