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Basic concepts of both experimental and theoretical chemical kinetics are concisely explained for those seeking a general knowledge of the subject from this well-known text, now being totally revised and updated. In addition, the book is an invaluable starting point for those embarking on research in kinetics and physical chemistry. Extensive chapter bibliographies point the way toward more detailed accounts or specialized aspects. Historical background included in both chapter introductions and biographical sketches of important researches in chemical kinetics.

The book is devoted to the consideration of the different processes taking place in thin films and at surfaces. Since the most important physico-chemical phenomena in such media are accompanied by the rearrangement of an intra- and intermolecular coordinates and consequently a surrounding molecular ensemble, the theory of radiationless multi-vibrational transitions is used for its description. The second part of the book considers the numerous surface phenomena. And in the third part is described the preparation methods and characteristics of different types of thin films. Both experimental and theoretical descriptions are represented. Media rearrangement coupled with the reagent transformation largely determines the absolute value and temperature dependence of the rate constants and other characteristics of the considered processes. These effects are described at the atomic or molecular level based on the multi-phonon theory, starting from the first pioneering studies through to contemporary studies. A number of questions are included at the end of many chapters to further reinforce the material presented. · Unified approach to the description of numerous physico-chemical phenomena in different materials · Based on the pioneering research work of the authors · Explantion of a variety of experimental observations · Material is presented at two levels of complexity for specialists and non-specialists · Identifies existing and potential applications of the processes and phenomena · Includes questions at the end of some chapters to further reinforce the material discussed

Learn to apply modeling and parameter estimation tools and strategies to chemicalprocesses using your personal computer This book introduces readers to powerful parameter estimation and computational methods for modeling complex chemical reactions and reaction processes. It presents useful mathematical models, numerical methods for solving them, and statistical methods for testing and discriminating candidate models with experimental data. Topics covered include: Chemical reaction models Chemical reactor models Probability and statistics Bayesian estimation Process modeling with single-response data Process modeling with multi-response data Computer software (Athena Visual Studio) is available via a related Web site http://www.athenavisual.com enabling readers to carry out parameter estimation based on their data and to carry out process modeling using these parameters. As an aid to the reader, an appendix of example problems and solutions is provided. Computer-Aided Modeling of Reactive Systems is an ideal supplemental text for advanced undergraduates and graduate students in chemical engineering courses, while it also serves as a valuable resource for practitioners in industry who want to keep up to date on the most current tools and strategies available.

Now in its fourth edition, this textbook is one of the few titles worldwide to cover enzyme kinetics in its entire scope and the only one to include its implications for bioinformatics and systems biology. Multi-enzyme complexes and cooperativity are therefore treated in more detail than in any other textbook on the market. The respected and well known author is one of the most experienced researchers into the topic and writes with outstanding style and didactic clarity. As with the previous editions, he presents here steady-state kinetics and fast reactions, supplementing each chapter with problems and solutions. For the first time, this edition features a companion website providing all figures in colour www.wiley-vch.de/home/fundenzykinet

While the chemical aspects of igneous petrology have dominated research for many years, the physical processes associated with the generation, transport, and crystallization of magma have been somewhat neglected. Here a group of distinguished scientists, whose current research embraces both chemical and physical aspects of the field, illustrates these new directions in igneous petrology. Originally published in 1980. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

In this Completely Revised and Extended Edition with a significantly enhanced content, all Chapters have been updated considering relevant literature and recent developments until 2016 together with application oriented examples with a focus on Industrial Biocatalysis. Newly treated topics comprise among others systems metabolic engineering approaches, metagenome screening, new tools for pathway engineering, and de-novo computational design as actual research areas in biocatalysis. Information about different aspects of RNA technologies, and completely new Chapters on 'Fluorescent Proteins' and 'Biocatalysis and Nanotechnology' are also included.

The so-called reaction path (RP) with respect to the potential energy or the Gibbs energy ("free enthalpy") is one of the most fundamental concepts in chemistry. It significantly helps to display and visualize the results of the complex microscopic processes forming a chemical reaction. This concept is an implicit component of conventional transition state theory (TST). The model of the reaction path and the TST form a qualitative framework which provides chemists with a better understanding of chemical reactions and stirs their imagination. However, an exact calculation of the RP and its neighbourhood becomes important when the RP is used as a tool for a detailed exploring of reaction mechanisms and particularly when it is used as a basis for reaction rate theories above and beyond TST. The RP is a theoretical instrument that now forms the "theoretical heart" of "direct dynamics". It is particularly useful for the interpretation of reactions in common chemical systems. A suitable definition of the RP of potential energy surfaces is necessary to ensure that the reaction theories based on it will possess sufficiently high quality. Thus, we have to consider three important fields of research: - Analysis of potential energy surfaces and the definition and best calculation of the RPs or - at least - of a number of selected and chemically interesting points on it. - The further development of concrete vers ions of reaction theory beyond TST which are applicable for common chemical systems using the RP concept.

Modeling and Simulation have become endeavors central to all disciplines of science and engineering. They are used in the analysis of physical systems where they help us gain a better understanding of the functioning of our physical world. They are also important to the design of new engineering systems where they enable us to predict the behavior of a system before it is ever actually built. Modeling and simulation are the only techniques available that allow us to analyze arbitrarily non-linear systems accurately and under varying experimental conditions. Continuous System Modeling introduces the student to an important subclass of these techniques. They deal with the analysis of systems described through a set of ordinary or partial differential equations or through a set of difference equations. This volume introduces concepts of modeling physical systems through a set of differential and/or difference equations. The purpose is twofold: it enhances the scientific understanding of our physical world by codifying (organizing) knowledge about this world, and it supports engineering design by allowing us to assess the consequences of a particular design alternative before it is actually built. This text has a flavor of the mathematical discipline of dynamical systems, and is strongly oriented towards Newtonian physical science.

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