Solid state diffusion

- In theory, gas/solid reaction, rate control steps may include: (a) surface reaction; (b) mass transfer around particle; (c) diffusion inside product layer; (d) heat transfer around particle; (e) heat transfer inside product layer.
- Most often: mass transfer of the solid phase.

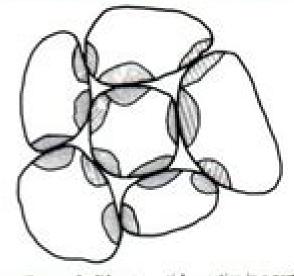


FIGURE 5.18 Extent of solid state particle reaction in a particle assembly.

 Control mechanism may change with temperature

Reaction Diffusion And Solid State Chemical Kinetics

Hermann Schmalzried

Reaction Diffusion And Solid State Chemical Kinetics:

Reaction Diffusion and Solid State Chemical Kinetics V. I. Dybkov, 2002 **Reaction Diffusion and Solid State Chemical Kinetics** Vasilii Ivanovich Dybkov,2002 Handbook of Solid State Diffusion: Volume 1 Aloke Paul, Sergiv Divinski, 2017-04-11 Handbook of Solid State Diffusion Volume 1 Diffusion Fundamentals and Techniques covers the basic fundamentals techniques applications and latest developments in the area of solid state diffusion offering a pedagogical understanding for students academicians and development engineers Both experimental techniques and computational methods find equal importance in the first of this two volume set Volume 1 covers the fundamentals and techniques of solid state diffusion beginning with a comprehensive discussion of defects then different analyzing methods and finally concluding with an exploration of the different types of modeling techniques Presents a handbook with a short mathematical background and detailed examples of concrete applications of the sophisticated methods of analysis Enables readers to learn the basic concepts of experimental approaches and the computational methods involved in solid state diffusion Covers bulk thin film and nanomaterials Introduces the problems and analysis in important materials systems in various applications Collates contributions from academic and industrial problems from leading scientists involved in developing key concepts across the Chemical Kinetics of Solids Hermann Schmalzried, 2008-07-11 Many different chemical processes take place inside globe solids or at solid surfaces and interfaces However their quantitative description sometimes seems difficult to understand This book by Professor Schmalzried author of the eminently successful Solid State Reactions bridges the gap between the physical and chemical approaches to this subject because it is written in a language which both sides understand For the first time a comprehensive coverage of the rapidly developing field of Solid State Kinetics is available The topics covered in this book go far beyond diffusional transport Homogeneous and heterogeneous solid state reactions phase transitions or the influence of external fields are also treated in detail With this background the author explains e g charge transport mechanisms in ionic conductors principles of sensor technology or oxidation processes clearly and comprehensibly This book is a must for every solid state chemist and an indispensable tool for academic and industrial readers alike From reviews a first rate reference work that a must for any science library I Am Chem Soc can be recommended without restrictions Z Phys Chem

Developments in High Temperature Corrosion and Protection of Materials W Gao, 2008-04-09 High temperature corrosion is a phenomenon that occurs in components that operate at very high temperatures such as gas turbines jet engines and industrial plants Engineers are constantly striving to understand and prevent this type of corrosion This book examines the latest developments in the understanding of high temperature corrosion processes and protective oxide scales and coatings Part one looks at high temperature corrosion Chapters cover diffusion and solid state reactions external and internal oxidation of alloys metal dusting corrosion tribological degradation hot corrosion and oxide scales on hot rolled steel strips Modern techniques for analysing high temperature oxidation and corrosion are also discussed Part two discusses methods of

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Comprehensive Chemical Kinetics Nicholas Green, 2003-11-21 Unimolecular reactions are in principle the simplest chemical reactions because they only involve one molecule The basic mechanism in which the competition between the chemical reaction step and a collisional deactivation leads to a pressure dependent coefficient has been understood for a long time However this is a rapidly developing field and many new and important discoveries have been made in the past decade This First Part of Two CCK Volumes dealing with Unimolecular Rections deals with the Reaction Step The first chapter

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High

Temperature Corrosion César A. C. Sequeira, 2019-01-23 Reviews the science and engineering of high temperature corrosion and provides guidelines for selecting the best materials for an array of system processes High temperature corrosion HTC is a widespread problem in an array of industries including power generation aerospace automotive and mineral and chemical processing to name a few This book provides engineers physicists and chemists with a balanced presentation of all relevant basic science and engineering aspects of high temperature corrosion It covers most HTC types including oxidation sulfidation nitridation molten salts fuel ash corrosion H2S H2 corrosion molten fluoride HF corrosion and carburization It also provides corrosion data essential for making the appropriate choices of candidate materials for high temperature service in process conditions A form of corrosion that does not require the presence of liquids high temperature corrosion occurs due to the interaction at high temperatures of gases liquids or solids with materials HTC is a subject is of increasing importance in many areas of science and engineering and students researchers and engineers need to be aware of the nature of the processes that occur in high temperature materials and equipment in common use today especially in the chemical gas petroleum electric power metal manufacturing automotive and nuclear industries Provides engineers and scientists with the essential data needed to make the most informed decisions on materials selection Includes up to date information accompanied by more than 1 000 references 80% of which from within the past fifteen years Includes details on systems of critical engineering importance especially the corrosion induced by low energy radionuclides Includes practical guidelines for testing and research in HTC along with both the European and International Standards for high temperature corrosion engineering Offering balanced in depth coverage of the fundamental science behind and engineering of HTC High Temperature Corrosion Fundamentals and Engineering is a valuable resource for academic researchers students and professionals in the material sciences solid state physics solid state chemistry electrochemistry metallurgy and mechanical chemical and structural engineers Fluid-Solid Reactions H. Y. Sohn, 2020-08-12 Fluid Solid Reactions Second Edition takes a detailed and thorough look at the scope of fluid solid reaction systems focusing on the four phenomena external mass transfer pore diffusion chemical reaction and adsorption desorption This completely revised new edition builds on the classic original edition through the introduction of cutting edge new theories and applications including the formulation and application of a new and convenient law that governs fluid solid reaction kinetics This book will be of primary interest to practicing engineers engaged in process research development and design in the many fields where fluid solid reactions are critical to workflow and research Fluid solid reactions play a major role in the technology of most industrialized nations These reactions encompass a very broad field including the extraction of metals from their ores the combustion of solid fuels coal gasification and the incineration of solid refuse Features 50% new and revised content arming researchers with the latest developments in the field Details a new unified approach to modeling the rates of fluid solid reaction systems Authored by one of the world's foremost experts on fluid solid reactions and their applications in the field Handbook of Solid

State Chemistry, 6 Volume Set Richard Dronskowski, Shinichi Kikkawa, Andreas Stein, 2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who s Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations **Diffusion in Solids** Helmut Mehrer, 2007-07-24 Diffusion is a vital topic in solid state physics and chemistry physical metallurgy and materials science Diffusion processes are ubiquitous in solids at elevated temperatures A thorough understanding of diffusion in materials is crucial for materials development and engineering This book first gives an account of the central aspects of diffusion in solids for which the necessary background is a course in solid state physics It then provides easy access to important information about diffusion in metals alloys semiconductors ion conducting materials glasses and nanomaterials Several diffusion controlled phenomena including ionic conduction grain boundary and dislocation pipe diffusion are considered as well Graduate students in solid state physics physical metallurgy materials science physical and inorganic chemistry or geophysics will benefit from this book as will physicists chemists metallurgists materials engineers in academic and industrial research laboratories Technical Abstract Bulletin Defense Documentation Center (U.S.),1964

Electro-Chemo-Mechanics of Solids Sean R. Bishop, Nicola H. Perry, Dario Marrocchelli, Brian W. Sheldon, 2017-03-18 This book brings together a collection of chapters that focus on the relationship among electrical chemical and mechanical properties and the study of adjusting one property through the control of another namely Electro Chemo Mechanics ECM The authors examine how this relationship can result in beneficial properties such as mixed ionic and electronic conductivity in oxides upon oxygen deficiency or lithium insertion electro chemo and or changes in ionic and electronic mobility observed in strained systems electro mechano They also consider how ECM interactions can be responsible for large stresses from non stoichiometry induced lattice dilation chemo mechano While many volumes are available devoted to the study of the origins and characteristics of electro chemical relationships they form the well known field of electrochemistry this volume is highly novel in its examination of the corresponding electro mechanical chemo mechanical and electro chemo mechanical relationships The book is ideal for researchers and design engineers interested in energy storage and conversion and the electrical and mechanical properties of materials **Preclinical Development Handbook** Shayne Cox Gad, 2008-03-21 A clear straightforward resource to guide you through preclinical drug development Following this book s step by step guidance you

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research during which he has initiated developed and exploited many important branches of this field Indeed the depth and breadth of his contributions towards the evolution and advancement of this scientific discipline and his critical role in elevating this field to the important position that it now occupies within modern science are demonstrated recurrently throughout the chapters of this book Individual chapters are contributed by internationally leading experts in their respective fields and the topics covered include solid state chemistry of inorganic and organic materials heterogeneous catalysis surface science and materials science with one section of the book focusing on modern developments in electron microscopy and its contributions to chemistry and materials science The book serves as a modern and up to date monograph in these fields and provides a valuable resource to researchers in academia and industry who require a comprehensive source of information on this important and rapidly developing subject

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