

# COMPREHENSIVE CHEMICAL KINETICS

EDITED BY

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and R. G. COMPTON M.A., D.Phil.

VOLUME 21

## REACTIONS OF SOLIDS WITH GASES

ELSEVIER

# Reactions In The Solid State Comprehensive Chemical Kinetics Hardcover

**Michael E. Brown, D. Dollimore, A.K. Galwey**



## **Reactions In The Solid State Comprehensive Chemical Kinetics Hardcover:**

**Reactions in the Solid State** C. H. Bamford, Charles Frank Howlett Tipper, 1980      **Reactions in the Solid State** Michael E. Brown, D. Dollimore, A.K. Galwey, 1980-01-15 The whole of Volume 22 is devoted to the kinetics and mechanisms of the decomposition and interaction of inorganic solids extended to include metal carboxylates After an introductory chapter on the characteristic features of reactions in the solid phase experimental methods of investigation of solid reactions and the measurement of reaction rates are reviewed in Chapter 2 and the theory of solid state kinetics in Chapter 3 The reactions of single substances loosely grouped on the basis of a common anion since it is this constituent which most frequently undergoes breakdown are discussed in Chapter 4 the sequence being effectively that of increasing anion complexity Chapter 5 covers reactions between solids and includes catalytic processes where one solid component remains unchanged double compound formation and rate processes involving the interactions of more than three crystalline phases The final chapter summarises the general conclusions drawn in the text of Chapter 2 5      **Introduction to Solid State Chemistry** James E. House, 2024-02-21 Introduction to Solid State Chemistry provides a strong background to the structures of solids and factors that determine this structure The content presented will also stress transformations of solids both in physical forms and chemical composition In so doing topics such as phase transitions sintering reactions of coordination compounds photovoltaic compounds are described whilst kinetics and mechanisms of solid state reactions are covered in depth There are currently few books that deal with solid state chemistry where a considerable number instead deal with solid state physics and materials science engineering This book provides someone needing or wishing to learn about the chemistry of solids a comprehensive resource that describes structures of solids the behaviour of solids under applied stresses the types of reactions that solids undergo and the phenomenological aspects of reactions in solids Kinetics of reactions in solids is very seldom covered in current literature and an understanding of the mechanisms of reactions in solids is necessary for many applications James E House provides a balanced treatment of structure dynamics and behaviour of solids at a level commensurate with upper level undergraduates or beginning graduate students who wish to obtain an introduction and overview to solid state chemistry Provides a fundamental introduction and entry point to solid state chemistry acting as a useful prerequisite for further learning in the area Presents a balanced approach that not only emphasizes structures of solids but also provides information on reactions of solids and how they occur Gives much needed focus to the kinetics of reactions of solids and their mechanisms where existing literature covers little of this Explores crucial solid state chemistry topics such as solar energy conversion reactions of solid coordination compounds diffusion sintering and other transformations of solids Features accessible and well written examples and case studies featuring many new and bespoke supporting illustrations offering an excellent framework that will help students to understand reaction mechanisms

**Reactions in the solid state** ,1980      Comprehensive Chemical Kinetics C. H. Bamford, Charles Frank Howlett

Tipper,1980      *Light Metals 2025* Les Edwards,2025-03-02 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2025 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Decarbonization and Sustainability in Aluminum Primary Processing Joint Session of Aluminum Reduction Electrode Technology and REWAS 2025 Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Recycling and Sustainability in Cast Shop Technology Joint Session with REWAS 2025 Scandium Extraction and Use in Aluminum Alloys      Reactions in the solid state W. E. Brown,1980

**Comprehensive Chemical Kinetics** R. G. Compton,1989      **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

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volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics

*Scientific and Technical Aerospace Reports* ,1995      *The Publishers' Trade List Annual* ,1985      **Comprehensive Practical Science IX** S.P. Saxena,Dheeraj Saxena,2010      **American Book Publishing Record** ,1997      Numerical Modeling of Turbulent Combustion Luc Vervisch,Pascale Domingo,2025-06-27 Numerical Modeling of Turbulent Combustion provides readers with a comprehensive understanding of the specificities involved in numerical simulation of gaseous turbulent reactive flows and flames including their most current applications This title is intended for individuals with a background in fluid mechanics who are seeking to delve into the fundamentals of turbulent combustion modeling It offers methodologies to simulate flames while taking into account their multi physics character Moreover the text addresses emerging numerical technologies within this field and highlights the relevance of new sustainable fuels The structure of the book is carefully organised to cover various aspects It begins with an exploration of the fundamentals of aerothermochemistry presenting key quantities and their corresponding balance equations that require numerical solutions The book then delves into the essential concepts and tools necessary to handle the strongly non linear nature of turbulent flames with a specific focus on the interplay between turbulence and chemistry Furthermore readers will gain insights into the numerical modeling of flames within the context of sustainable combustion This includes the introduction of novel fuels such as hydrogen and solid metals which have become increasingly relevant in recent times The book also takes into account cutting edge techniques like the systematic integration of machine learning in numerical simulations of complex systems and the lattice Boltzmann approach These innovations open new possibilities for tackling challenges in numerical turbulent combustion research Both the fundamental methods and modeling tools are presented in detail along with best practice guidelines for their practical application in simulations This ensures that readers not only grasp the underlying theories but also gain valuable insights into how to implement these techniques effectively Overall Numerical Turbulent Combustion serves as a valuable resource for researchers and practitioners alike offering a comprehensive and up to date understanding of numerical simulations in the field of turbulent combustion Offers a comprehensive and balanced approach by addressing the problem both theoretically and practically Provides a consistent and in depth exploration of flames and turbulent

combustion Highlights the most current and crucial applications with a particular emphasis on fostering a fundamental understanding and emerging technologies     **Books in Print** ,1987     Comprehensive Dissertation Index ,1989

**Chemical Kinetics of Solids** Hermann Schmalzried,2008-07-11 Many different chemical processes take place inside 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 J Am Chem Soc can be recommended without restrictions Z Phys Chem     The Metallurgist and Materials Technologist ,1976

## **Reactions In The Solid State Comprehensive Chemical Kinetics Hardcover** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Reactions In The Solid State Comprehensive Chemical Kinetics Hardcover**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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