



Reactions and Characterization of SOLIDS

by SANDRA E. DANN

Reactions And Characterization Of Solids

Sandra E. Dann



Reactions And Characterization Of Solids:

Reactions and Characterization of Solids Sandra E. Dann, 2002-05-09 Reactions and Characterizations of Solids is designed as an introductory text with plenty of illustrative examples to reinforce the essentials of the topic The fundamental principles of elementary crystal chemistry are introduced together with the principles of both preparing and characterizing materials in the solid state Some elementary thermodynamics are also included at this stage to introduce the idea of bond strength as a method of determining and predicting compound stability

Reactions and Characterization of Solids Sandra E. Dann, 2000 The last twenty years or so has seen a change in the perception of solid state chemistry in particular the scientific significance of understanding the relationship between chemical structure and physical properties As such it now forms an important part of both mainstream chemistry and material science degrees Reactions and Characterization of Solids is designed as an introductory text with plenty of illustrative examples to reinforce the essentials of the topic In the first few chapters the fundamental principles of elementary crystal chemistry are introduced together with the principles of both preparing and characterizing materials in the solid state Some elementary thermodynamics are also included at this stage to introduce the idea of bond strength as a method of determining and predicting compound stability General physical properties such as electronic and magnetic behaviour are discussed together with specific topics relating to solid state materials such as non stoichiometry Furthermore several solid state materials are described in detail relating the fundamental properties and structural behaviour covered throughout the book to real systems and working materials Ideal for the needs of undergraduate chemistry students Tutorial Chemistry Texts is a major series consisting of short single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses Each book provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples

Gas-Solid Reactions Julian Szekely, 2012-12-02 Gas Solid Reactions describes gas solid reaction systems focusing on the four phenomena external mass transfer pore diffusion adsorption desorption and chemical reaction This book consists of eight chapters After the introduction provided in Chapter 1 the basic components of gas solid reactions are reviewed in Chapter 2 Chapter 3 describes the reactions of individual nonporous solid particles while Chapter 4 elaborates the reaction of single porous particles Solid solid reactions proceeding through gaseous intermediates are considered in Chapter 5 Chapter 6 deals with the experimental approaches to the study of gas solid reaction systems How information on single particle behavior may be used for the design of multiparticle large scale assemblies and packed and fluidized bed reaction systems is deliberated in Chapter 7 The last chapter covers the specific gas solid reaction systems including some statistical indices indicating the economic importance of the systems and processes it s based on This publication is recommended for practicing engineers engaged in process research development and design in the many fields where gas solid reactions are important

High Temperature Gas-Solid Reactions in Earth and Planetary Processes

Penelope King, Bruce Fegley, Terry Seward, 2018-12-03 High temperature gas solid reactions are ubiquitous on planetary bodies distributing chemical elements over a range of geologic settings and temperatures This volume reviews the critical role gas solid reactions play in early solar system formation volcanism metamorphism and industrial processes The field evidence experimental and theoretical approaches for examining gas solid reaction are presented building on advances in fields outside of Earth Sciences Computational chemistry techniques are used to probe the nature of molecular clusters and solvation in volcanic vapors and mineral gas reaction mechanisms Specialised analytical methods for characterising solid reaction products are included since these reactions commonly form thin or dispersed films and metastable minerals Finally the volume contains rich field examples laboratory experiments and thermodynamic modelling and kinetics of gas solid reactions on Earth Venus and beyond

Microporous and Mesoporous Solid Catalysts Eric G. Derouane, Stanley M. Roberts, 2006-08-14 This series offers practical help for advanced undergraduate graduate and postgraduate students as well as experienced chemists in industry and academia working with catalysts in organic and organometallic synthesis It features tested and validated procedures authoritative reviews on classes of catalysts and assessments of all types of catalysts Micro and Mesoporous Solid Catalysts describes the use of zeolites and mesoporous solids as catalysts for the production of fine and specialty chemicals Specific tips and hints are provided and some typical procedures are described in detail In addition to discussing the pros and cons several major organic transformations are examined including aromatic substitutions heterocyclic ring formation amines synthesis oligomerisation oxidation and hydroxylation and other regioselective and stereoselective reactions Features tutorial introductory chapters including tips and hints for achieving successful organic transformations Important reactions are featured together with recommendations to resolve potential problems

Metal Oxides and Related Solids for Electrocatalytic Water Splitting Junlei Qi, 2022-05-05 Metal Oxides and Related Solids for Electrocatalytic Water Splitting reviews the fundamentals and strategies needed to design and fabricate metal oxide based electrocatalysts After an introduction to the key properties of transition metal oxides materials engineering methods to optimize the performance of metal oxide based electrocatalysts are discussed Strategies reviewed include defect engineering interface engineering and doping engineering Other sections cover important categories of metal oxide and related solids based catalysts including layered hydroxides metal chalcogenides metal phosphides metal nitrides metal borides and more Each chapter introduces important properties and material design strategies including composite and morphology design There is also an emphasis on cost effective materials design and fabrication for optimized performance for electrocatalytic water splitting applications Lastly the book touches on recently developed in situ characterization methods applied to observe and control the material synthesis process Introduces metal oxide based materials for electrocatalytic water splitting applications including their key properties synthesis design and fabrication strategies Reviews the most relevant materials design strategies including defect engineering interface engineering and doping engineering Discusses the pros and cons of

metal oxide based materials for water splitting applications to aid in materials selection

Reactions in the Solid State Michael E. Brown, D. Dollimore, A.K. Galwey, 1980-01-01 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

Solid State Batteries César A.C. Sequeira, A. Hooper, 1985 Proceedings of the NATO Advanced Study Institute on Solid State Batteries Alcabideche Portugal September 2 14 1984

Thermal Physics and Thermal Analysis Jaroslav Šesták, Pavel Hubík, Jiří J. Mareš, 2017-03-24 Features twenty five chapter contributions from an international array of distinguished academics based in Asia Eastern and Western Europe Russia and the USA This multi author contributed volume provides an up to date and authoritative overview of cutting edge themes involving the thermal analysis applied solid state physics micro and nano crystallinity of selected solids and their macro and microscopic thermal properties Distinctive chapters featured in the book include among others calorimetry time scales from days to microseconds glass transition phenomena kinetics of non isothermal processes thermal inertia and temperature gradients thermodynamics of nanomaterials self organization significance of temperature and entropy Advanced undergraduates postgraduates and researchers working in the field of thermal analysis thermophysical measurements and calorimetry will find this contributed volume invaluable This is the third volume of the triptych volumes on thermal behaviour of materials the previous two receiving thousand of downloads guaranteeing their worldwide impact

Scientific and Technical Aerospace Reports, 1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Catalysis of Organic Reactions Frank E. Herkes, 1998-08-21 Documents up to date developments in the study of catalysis and its applications to organic synthesis and industrial processes The text examines the area of homogenous and heterogenous catalysis for industrial and pharmaceutical chemicals focusing on recent advances in asymmetric synthesis environmental uses acid based synthesis hydrogenation oxidation alkylation isomerization amination hydroformylation and more

Chemical Engineering in the Pharmaceutical Industry David J. am Ende, 2011-03-10 This book deals with various unique elements in the drug development process within chemical engineering science and pharmaceutical R D The book is intended to be used as a professional reference and potentially as a text book reference in pharmaceutical

engineering and pharmaceutical sciences Many of the experimental methods related to pharmaceutical process development are learned on the job This book is intended to provide many of those important concepts that R D Engineers and manufacturing Engineers should know and be familiar if they are going to be successful in the Pharmaceutical Industry These include basic analytics for quantitation of reaction components often skipped in ChE Reaction Engineering and kinetics books In addition Chemical Engineering in the Pharmaceutical Industry introduces contemporary methods of data analysis for kinetic modeling and extends these concepts into Quality by Design strategies for regulatory filings For the current professionals in silico process modeling tools that streamline experimental screening approaches is also new and presented here Continuous flow processing although mainstream for ChE is unique in this context given the range of scales and the complex economics associated with transforming existing batch plant capacity The book will be split into four distinct yet related parts These parts will address the fundamentals of analytical techniques for engineers thermodynamic modeling and finally provides an appendix with common engineering tools and examples of their applications

Workshop on Monitoring Oxidation-Reduction Processes for Ground-water Restoration ,2002 , Metal Oxides in Heterogeneous Catalysis Jacques C. Vedrine,2018-01-11 Metal Oxides in Heterogeneous Catalysis is an overview of the past present and future of heterogeneous catalysis using metal oxides catalysts The book presents the historical theoretical and practical aspects of metal oxide based heterogeneous catalysis Metal Oxides in Heterogeneous Catalysis deals with fundamental information on heterogeneous catalysis including reaction mechanisms and kinetics approaches There is also a focus on the classification of metal oxides used as catalysts preparation methods and touches on zeolites mesoporous materials and Metal organic frameworks MOFs in catalysis It will touch on acid or base type reactions selective partial and total oxidation reactions and enzymatic type reactions The book also touches heavily on the biomass applications of metal oxide catalysts and environmentally related depollution reactions such as COVs elimination DeNOx and DeSOx Finally the book also deals with future trends and prospects in metal oxide based heterogeneous catalysis Presents case studies in each chapter that provide a focus on the industrial applications Includes fundamentals key theories and practical applications of metal oxide based heterogeneous catalysis in one comprehensive resource Edited and contributed by leading experts who provide perspectives on synthesis characterization and applications

OAR Quarterly Index of Current Research Results United States. Air Force. Office of Aerospace Research,1967 Workshop on Monitoring Oxidation-Reduction Processes for Ground-water Restoration Richard T. Wilkin,Ralph D. Ludwig,Robert G. Ford,2002 *Thermal Analysis of Pharmaceuticals* Duncan Q.M. Craig,Mike Reading,2006-12-21 As a result of the Process Analytical Technologies PAT initiative launched by the U S Food and Drug Administration FDA analytical development is receiving more attention within the pharmaceutical industry Illustrating the importance of analytical methodologies Thermal Analysis of Pharmaceuticals presents reliable and versatile charac

Progress on Geoenvironmental Models for Selected Mineral Deposits Types ,2002 *Zeolites and Zeolite-like*

Materials Bert Sels, Leonid Kustov, 2016-07-29 Zeolites and Zeolite like Materials offers a comprehensive and up to date review of the important areas of zeolite synthesis characterization and applications Its chapters are written in an educational easy to understand format for a generation of young zeolite chemists especially those who are just starting research on the topic and need a reference that not only reflects the current state of zeolite research but also identifies gaps and opportunities The book demonstrates various applications of zeolites in heterogeneous catalysis and biomass conversion and identifies the endless possibilities that exist for this class of materials their structures functions and future applications In addition it demonstrates that zeolite like materials should be regarded as a living body developing towards new modern applications thereby responding to the needs of modern technology challenges including biomass conversion medicine laser techniques and nanomaterial design etc The book will be of interest not only to zeolite focused researchers but also to a broad scientific and non scientific audience Provides a comprehensive review of the literature pertaining to zeolites and zeolite like materials since 2000 Covers the chemistry of novel zeolite like materials such as Metal Organic Frameworks MOFs Covalent Organic Frameworks COFs hierarchical zeolite materials new mesoporous and composite zeolite like micro mesoporous materials Presents essential information of the new zeolite like structures with a balanced coverage of the most important areas of the zeolite research synthesis characterization adsorption catalysis new applications of zeolites and zeolite like materials Contains chapters prepared by known specialists who are members of the International Zeolite Association

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