

SOLID STATE CHEMISTRY



Solidstate Chemistry

William Edward Garner



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Solid State Chemistry and its Applications Anthony R. West, 2014-03-17 Solid State Chemistry and its Applications 2nd Edition Student Edition is an extensive update and sequel to the bestselling textbook Basic Solid State Chemistry the classic text for undergraduate teaching in solid state chemistry worldwide Solid state chemistry lies at the heart of many significant scientific advances from recent decades including the discovery of high temperature superconductors new forms of carbon and countless other developments in the synthesis characterisation and applications of inorganic materials Looking forward solid state chemistry will be crucial for the development of new functional materials in areas such as energy catalysis and electronic materials This revised edition of Basic Solid State Chemistry has been completely rewritten and expanded to present an up to date account of the essential topics and recent developments in this exciting field of inorganic chemistry Each section commences with a gentle introduction covering basic principles progressing seamlessly to a more advanced level in order to present a comprehensive overview of the subject This new Student Edition includes the following updates and new features Expanded coverage of bonding in solids including a new section on covalent bonding and more extensive treatment of metallic bonding Synthetic methods are covered extensively and new topics include microwave synthesis combinatorial synthesis mechano synthesis atomic layer deposition and spray pyrolysis Revised coverage of electrical magnetic and optical properties with additional material on semiconductors giant and colossal magnetoresistance multiferroics LEDs fibre optics and solar cells lasers graphene and quasicrystals Extended chapters on crystal defects and characterisation techniques Published in full colour to aid comprehension Extensive coverage of crystal structures for important families of inorganic solids is complemented by access to CrystalMaker visualization software allowing readers to view and rotate over 100 crystal structures in three dimensions Solutions to exercises and supplementary lecture material are available online Solid State Chemistry and its Applications 2nd Edition Student Edition is a must have textbook for any undergraduate or new research worker studying solid state chemistry

Chemistry of the Solid State William Edward Garner, 1955 [Solid State Chemistry](#) Jean Annerie Hernandez, 2016-11-30 Materials chemistry provides an understanding of material properties in particular by creating chemical correlations This is based on four steps ranging from the design of a material the synthesis and characterization to potential applications While the latter is about the engineering the first three are based on chemical and physical principles This text offers an introduction to this subject

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

Solid State Chemistry Bernadett Kent,2021-11-16 Solid state chemistry refers to the study of structure properties and synthesis of solid materials It focuses on the making and characterization of the constituent particles of novel materials Solids are divided into two categories based on the arrangement of their particles and the nature of order present These categories are crystalline and amorphous solids A wide variety of techniques are used to study these properties of solids Some of these are oven techniques like gas reaction melt methods and solution methods along with chemie douce The field primarily overlaps with other areas such as thermodynamics crystallography solid state physics ceramics material science and electronics This book is a valuable compilation of topics ranging from the basic to the most complex theories and principles related to this discipline It studies analyzes and upholds the pillars of solid state chemistry and its utmost significance in modern times For someone with an interest and eye for detail this book covers the most significant topics of solid state chemistry

Principles of Solid State Chemistry Petr Petrovich Budnikov,Arkadii Mikhaïlovich Ginstling,1968

Treatise on Solid State Chemistry N. Hannay,2012-12-06 The last quarter century has been marked by the extremely rapid growth of the solid state sciences They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished And playing an active role throughout this vast area of science and engineering have been very large numbers of chemists Yet even though the role of chemistry in the solid state sciences has been a vital one and the solid state sciences have in turn made enormous contributions to chemical thought solid state chemistry has not been recognized by the general body of chemists as a major subfield of chemistry Solid state chemistry is not even well defined as to content Some for example would have it include only the quantum chemistry of solids and would reject

thermodynamics and phase equilibria this is nonsense Solid state chemistry has many facets and one of the purposes of this Treatise is to help define the field Perhaps the most general characteristic of solid state chemistry and one which helps differentiate it from solid state physics is its focus on the chemical composition and atomic configuration of real solids and on the relationship of composition and structure to the chemical and physical properties of the solid Real solids are usually extremely complex and exhibit almost infinite variety in their compositional and structural features

Solid State Chemistry Elaine A. Moore, Jennifer Readman, 2025-05-22 Solid State Chemistry An Introduction 6th Edition is a fully revised edition of one of our most successful textbooks with at least 20% new information and new images of crystal structures Solid state chemistry is still a rapidly advancing field contributing to areas such as batteries for transport and energy storage nanostructured materials and porous materials for the capture of carbon dioxide and other pollutants This edition aims as previously not only to teach the basic science that underpins the subject but also to direct the reader to the most modern techniques and to expanding and new areas of research The user friendly style takes a largely non mathematical approach and gives practical examples of applications of solid state materials and concepts The chapter on sustainability written by an expert in the field has been updated and examples of the relevance of solid state chemistry to sustainability are used throughout The chapter on batteries has been extended to include fuel cells Other new topics in this edition include X ray free electron laser crystallography and thermal properties of materials A companion website offering accessible resources for students and instructors alike featuring topics and tools such as quizzes videos web links and more has been provided for this edition Excellent overview of solid state properties and syntheses User friendly style taking a largely non mathematical approach and giving practical examples of applications of solid state materials and concepts The companion website offers accessible resources featuring topics and tools such as quizzes videos web links and more Significantly updated section on sustainability in solid state chemistry Broad range of topics to provide students with a firm grounding in the major theoretical and practical aspects of the chemistry of solids

The Chemical Structure of Solids N. Hannay, 2012-04-24 The last quarter century has been marked by the extremely rapid growth of the solid state sciences They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished And playing an active role throughout this vast area of science and engineer ing have been very large numbers of chemists Yet even though the role of chemistry in the solid state sciences has been a vital one and the solid state sciences have in turn made enormous contributions to chemical thought solid state chemistry has not been recognized by the general body of chemists as a major subfield of chemistry Solid state chemistry is not even well defined as to content Some for example would have it include only the quantum chemistry of solids and would reject thermodynamics and phase equilibria this is nonsense Solid state chemistry has many facets and one of the purposes of this Treatise is to help define the field Perhaps the most general characteristic of solid state chemistry and one which helps differentiate it from solid state physics is its focus on the chemical composition and

atomic configuration of real solids and on the relationship of composition and structure to the chemical and physical properties of the solid. Real solids are usually extremely complex and exhibit almost infinite variety in their compositional and structural features.

Preparative Methods in Solid State Chemistry Paul Hagenmuller, 2012-12-02. Preparative Methods in Solid State Chemistry deals with the preparative methods used in solid state chemistry and highlights the importance of the chemist's role in preparing materials of desired quality as well as obtaining materials according to the requirements of the user such as the physicist. Topics covered range from high pressure techniques in preparative chemistry to methods of growing single crystals of high melting point oxides. This book is comprised of 14 chapters and begins with an overview of possibilities for high pressure synthesis as well as the methods used to obtain high pressures including transmission by gaseous or liquid fluids or in the solid state. The method of shock waves is then considered both from the point of view of thermodynamics and thermoelasticity along with the possibility of using superpressures for evidently revolutionary applications. Subsequent chapters focus on the synthesis of single crystals of refractory oxides either at high temperatures essentially liquid solid transformations or at lower temperatures in the presence of a solvent or a chemical reagent. The production of single crystals by electrolytic reduction in molten salts is also described. Numerous examples of vapor transport reactions in a temperature gradient are presented. This monograph should be of interest to chemists and students of solid state chemistry.

Solid State Chemistry Aaron Wold, Kirby Dwight, 1993-04-30. The subject matter of solid state chemistry lies within the spheres of both physical and inorganic chemistry. In addition there is a large overlap with solid state physics and materials engineering. However solid state chemistry has still to be recognized by the general body of chemists as a legitimate subfield of chemistry. The discipline is not even well defined as to content and has many facets that make writing a textbook a formidable task. The early studies carried out in the United States by Roland Ward and his co-workers emphasized the synthesis of new materials and the determination of their structure. His work on doped alkaline earth sulfides formed the basis for the development of infrared phosphors and his pioneering studies on oxides were important in understanding the structural features of both the perovskite oxides as well as the magnetoplumbites. In 1945 A. F. Wells published the first edition of Structural Inorganic Chemistry. This work attempts to demonstrate that the synthesis, structure and properties of solids form an important part of inorganic chemistry. Now after almost 50 years during which many notable advances have been made in solid state chemistry it is still evident that the synthesis, structure determination and properties of solids receive little attention in most treatments of inorganic chemistry. The development of the field since the early studies of Roland Ward early 1940s has been rapid.

Solid State Chemistry Lesley Smart, 1993. **Treatise on Solid State Chemistry** N. Hannay, 1976-06-01. The last quarter century has been marked by the extremely rapid growth of the solid state sciences. They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished. And playing an active role throughout this vast area of science and engineering have been very large numbers of

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Solid State Chemistry: A Modern Approach Bernadett Kent, 2025-08-25 Solid state chemistry is the study of the structure properties and synthesis of solid materials with a focus on the creation and characterization of the constituent particles of novel materials Solids are classified into two main categories based on the arrangement of their particles and the degree of order crystalline and amorphous solids A variety of techniques are employed to investigate these properties including methods such as gas reactions melting techniques solution methods and chemie douce This field intersects with many other disciplines like thermodynamics crystallography solid state physics ceramics materials science and electronics This book is compiled in such a manner that it will provide in depth knowledge about the theory and practice of solid state chemistry While understanding the long term perspectives of the topics it makes an effort in highlighting their impact as a modern tool for the growth of the discipline This book with its detailed analyses and data will prove immensely beneficial to professionals and students involved in this area at various levels

Organic Solid State Chemistry Gautam R. Desiraju, 1987 With the growing recognition that many organic reactions may be conducted easily in the solid state and that organic solids may have unique optical electronic properties there has been much interest in both academia and industry in the subject of organic solid state chemistry This book provides for the first time a coherent unified view of the subject It describes the packing of molecular crystals and how this packing influences chemical reactions in the solid state It is concerned with various means of studying the chemistry and physics of molecules in constrained environments Both experimental and theoretical approaches are discussed Finally it tackles the question of prediction of crystal packing or crystal engineering The strength of the book lies in the twin approach adopted namely that both conceptual and comprehensive chapters are present in almost equal numbers

Treatise on Solid State Chemistry N. Hannay, 2012-12-06 The last quarter century has been marked by the extremely rapid growth of the solid state sciences They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished And playing an active role throughout this vast area of science and engineering have been very large numbers of chemists Yet even though the role of chemistry in the solid state sciences has been a vital one and the solid state sciences have in turn

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Solid State Chemistry Richard C. Ropp, 2003-06-12 Solid State Chemistry is a general textbook composed for those with little background knowledge of the subject but who wish to learn more about the various segments of solid state theory and technology The information is presented in a form that can easily be understood and will be useful to readers wishing to build on their own store of knowledge and experience Well presented in easy to understand format Informative textbook aimed primarily at the novice Comprehensively covers the segments of solid state theory and technology

Treatise on solid state chemistry : the chemical structure of solids Norman Bruce Hannay, **Progress in Solid State Chemistry** J. O. McCaldin, Gabor A. Sommorjai, 1973 *Solid State Chemistry* Johan Arvid Hedvall, 1966

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