

CHAPTER

01

SOLID STATE

S.No	Property	Crystalline variety			
		Molecular	Ionic	Covalent	Metallic
1	Unit occupying the lattice point	Molecule	+ve or -ve ion	Atoms	+ve ions in a sea of electrons.
2	Forces of attraction between the units.	Vander Waals or dipole - dipole interactions	Electrostatic forces	Shared electron pairs	Attractions between metal ions and sea of electrons
3	m.pts & b.pt.s	Low	High	Very high	Moderate very high
4	Electrical conductivity	Extremely low	High in molten or dissolved state	Usually insulators	Good conductors
5	a. Hardness	Soft usually	hard & brittle	Very hard	May be soft or hard giant molecules.
	b. Solubility	In non - polar solvents	In polar solvents	Insoluble in ordinary solvents	—
6	Examples	H ₂ O; CO ₂ ; H ₂ P ₄ ; S	NaCl; KNO ₃ ; Na ₂ SO ₄ ; CaCO ₃	Diamond; graphite Si; SiC	Na, K, Mg; Al, Cu, Fe, Ag

1. Radius ratio (ρ) = $\frac{r_{\text{small}}}{r_{\text{large}}}$ (Generally $\frac{r^+}{r^-}$)

2.

S.No.	Radius ratio ($\rho = r_{\text{small}} / r_{\text{large}}$)	Geometric shape of the crystal formed	Coordination number of the ion
1	Upto 0.015	Linear	2
2	0.15 to 0.22	Trigonal planar	3
3	0.22 to 0.41	Tetrahedral	4
4	0.41 to 0.73	Square pyramidal	4
5	0.41 to 0.73	Octahedral	6
6	> 0.73	Cubic	8

3. Arrangements of (metal atoms) spheres in space :

(a) Simple cube :

(1) Spheres can be arranged in a layer such that each metal atom is in touch with four other atoms.

Chapter Solid State Chemistry

N. Hannay



Chapter Solid State Chemistry:

Solid State Chemistry Lesley E. Smart, Elaine A. Moore, 2012-05-29 Building a foundation with a thorough description of crystalline structures *Solid State Chemistry An Introduction* Fourth Edition presents a wide range of the synthetic and physical techniques used to prepare and characterize solids Going beyond basic science the book explains and analyzes modern techniques and areas of research The book covers A range of synthetic and physical techniques used to prepare and characterize solids Bonding superconductivity and electrochemical magnetic optical and conductive properties STEM ionic conductivity nanotubes and related structures such as graphene metal organic frameworks and FeAs superconductors Biological systems in synthesis solid state modeling and metamaterials This largely nonmathematical introduction to solid state chemistry includes basic crystallography and structure determination as well as practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real life situations and serve them well throughout their degree course New in the Fourth Edition Coverage of multiferroics graphene and iron based high temperature superconductors the techniques available with synchrotron radiation and metal organic frameworks MOFs More space devoted to electron microscopy and preparative methods New discussion of conducting polymers in the expanded section on carbon nanoscience

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

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.

Basic Solid State Chemistry Anthony R.

West, 1999-07-30 Basic Solid State Chemistry Second Edition is a thorough revision of this best selling introductory text. This new edition provides the reader with an up to date account of the essential topics in this exciting and developing area. Whilst the structure of the first edition has been retained introducing topics in a logical and coherent way the text has been revised to include latest developments and concepts. There is a new chapter on Synthetic Methods covering solid state precursor chemie douce intercalation gas phase MOCVD vapour phase transport hydrothermal and other methods. In addition there is new material on fullerenes spinels and applications of phase diagrams. The coverage of solid solutions has been expanded and many of the diagrams have been considerably improved as have the examples and problems.

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 Electrochemistry II Vladislav V. Kharton, 2012-12-21 The ideal addition to the companion volume on fundamentals methodologies and applications this second volume combines fundamental information with an overview of the role of ceramic membranes electrodes and interfaces in this important interdisciplinary and rapidly developing field Written primarily for specialists working in solid state electrochemistry this first comprehensive handbook on the topic focuses on the most important developments over the last decade as well as the methodological and theoretical aspects and practical applications This makes the contents equally of interest to material physical and industrial scientists and to physicists Also available as a two volume set

Solid State Chemistry and its Applications Anthony R. West, 2014-01-08 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

Principles of the Solid State H. V. Keer, 1993 Uses an integrated scientists approach to the principles regulating the synthesis structure and physical characteristics of crystalline solids Mathematical derivations are kept to a minimum Covers electrical properties of metals and band semiconductors superionic conductors ferrites and solid electrolytes Features end of chapter problem sets

Supramolecular Photochemistry V. Ramamurthy, Yoshihisa Inoue, 2011-07-07 This is the most updated comprehensive collection of monographs on all aspects of photochemistry and photophysics related to natural and synthetic inorganic organic and biological supramolecular systems Supramolecular Photochemistry Controlling Photochemical Processes addresses reactions in crystals organized assemblies monolayers zeolites clays silica micelles polymers dendrimers organic hosts supramolecular structures organic glass proteins and DNA and applications of photosystems in confined media This landmark publication describes the past present and future of this growing interdisciplinary area

Solid State Chemistry Lesley E. Smart, Elaine A. Moore, 2005-06-24 Intended for first and second year undergraduates this introduction to solid state chemistry includes practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real life situations The third edition of Solid State Chemistry An Introduction has been comprehensively revised and updated Building a foundation with a thorough description of crystalline structures the book presents a wide range of the synthetic and physical techniques used to prepare and characterize solids Other fundamental discussions include bonding superconductivity and electrochemical magnetic optical and conductive properties The authors have added sections on fuel cells and electrochromic materials conducting organic polymers organic superconductors and fullerenes mesoporous solids and ALPOs photonics giant magnetoresistance GMR and colossal magnetoresistance CMR and p wave triplet superconductors The book also includes a completely new chapter which examines the solid state chemical aspects of nanoscience Each chapter contains a set of review questions and an accompanying solutions manual is available Solid State Chemistry An Introduction Third Edition is written in a clear approachable style that enhances the material by integrating its concepts in the context of current applications and areas of promising research

Inorganic Chemistry Mark Weller, Mark T. Weller, Tina Overton, Jonathan Rourke, Fraser Armstrong, 2014 Leading the reader from the fundamental principles of inorganic chemistry right through to cutting edge research at the forefront of the subject Inorganic Chemistry Sixth Edition is the ideal course companion for the duration of a student's degree The authors have drawn upon their extensive teaching and research experience in updating this established text the sixth edition retains the much praised clarity of style and layout from previous editions while offering an enhanced Frontiers section Exciting new applications of inorganic chemistry have been added to this section in particular relating to materials chemistry and medicine This edition also sees a greater use of learning features to provide students with all the

support they need for their studies Providing comprehensive coverage of inorganic chemistry while placing it in context this text will enable the reader to fully master this important subject Online Resource Centre For registered adopters of the text Figures marginal structures and tables of data ready to download Test bank For students Answers to self tests and exercises from the book Videos of chemical reactions Tables for group theory Web links Interactive structures and other resources on www.chemtube3d.com

Solid State Chemistry A. Wold, K. Dwight, 1993-06-30 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

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

The Elements of Physical Chemistry John Livingston Rutgers Morgan, 1905 **Structure and Bonding in Crystalline Materials** Gregory S. Rohrer, 2001-07-19 One of the motivating questions in materials research today is how can elements be combined to produce a solid with specified properties This book is intended to acquaint the reader with established principles of crystallography and cohesive forces that are needed to address the fundamental relationship between the composition structure and bonding Starting with an introduction to periodic trends the book

discusses crystal structures and the various primary and secondary bonding types and finishes by describing a number of models for predicting phase stability and structure. Containing a large number of worked examples, exercises and detailed descriptions of numerous crystal structures, this book is primarily intended as an advanced undergraduate or graduate level textbook for students of materials science. It will also be useful to scientists and engineers who work with solid materials.

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. **Physics of the Solid State**, 1996

Solid State Chemistry Lesley E. Smart, Elaine A. Moore, 1995-06-27 Intended for first and second year undergraduates, this introduction to solid state chemistry includes practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real life situations. It aims to provide students with a thorough understanding of the traditional knowledge of crystal structures, lattices, unit cells, close packing and octahedral and tetrahedral holes and their occupation by various ions in the well known crystal structures. This descriptive work is augmented by free electron and band theory. Links to other branches of chemistry and practical examples are emphasized as are the links back to band theory and crystal structures. For this second edition, the book has been updated throughout and has two new chapters: one on X-ray diffraction techniques and another on solid state preparative methods, as well as new sections on symmetry and ferroelectrics. **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 *Organic Solid-State Chemistry*—2 M. D. Cohen, 2013-10-22 Organic Solid State Chemistry 2 presents the solid state reactions in molecular crystals This book discusses the correlations of the chemical structures of products from organic solid state reactions with the molecular packing in the reactant crystal structures Organized into 10 chapters this book begins with an overview of the molecular behavior after the chemical transition state This text then examines the electron paramagnetic resonance methods which offer many features in connection with the study of chemical reactions in which a paramagnetic species is a product or a reactant Other chapters consider the interpretation of radiationless transitions thermal reactions and photochemical decompositions and rearrangements The final chapter deals with the experimental results concerning electron and hole production in anthracene crystals with emphasis on the relevance of these studies to the fundamental question of the nature of the excess electron states in these low mobility crystals This book is a valuable resource for solid state chemists photochemists spectroscopists scientists and research workers

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