Access Free Thermal Decomposition Of Ionic Solids Chemical Properties And Reactivities Of Ionic Crystalline Phases Studies In Physical And Theoretical Chemistry Pdf File Free

Solid State Physics Latt.Dynamics of Ionic Solids **Ionic Compounds Ionic Solids at High Temperatures Thermal Decomposition of Ionic Solids** *Thermal Decomposition of Ionic Solids Adsorption on Ordered Surfaces of Ionic Solids and Thin Films Adsorption on Ordered Surfaces of Ionic Solids and Thin Films* Physical Chemistry of Ionic Materials Advanced Inorganic Chemistry Volume I (LPSPE) **Understanding the Properties of Matter** *Materials Science* Chemistry for Degree Students (B.Sc. 1St Yr.) *Chemistry for Degree Students B.Sc. First Year (LPSPE)* **Bonding, Structure and Solid-state Chemistry** *The Basics of States of Matter* **Thermodynamic Modeling of Solid Phases Understanding Solid State Physics** *Satya Prakash's Modern Inorganic Chemistry* **Molecular Technology, Volume 4 Comprehensive Chemistry XII** Principles of Inorganic Chemistry **General Chemistry for Engineers Lehrbuch der physikalischen Chemie** *On the Theory of Crystal Stability and Elastic Constants of Simple Ionic Solids Chemistry in Context for Cambridge International AS & A Level* Chemistry-vol-I **Quantum Physics of Matter Research Methodologies and Practical Applications of Chemistry** Chemistry Class 12 **Objective Physics** Chemistry Class - XII - SBPD Publications [2022-23] *Chemistry* Chemistry: Principles and Practice **Inorganic Chemistry for Geochemistry and Environmental Sciences Chemistry: Concepts and Problems** Fundamental Aspects of Inert Gases in Solids **Chemistry Shriver and Atkins' Inorganic Chemistry** Electronic Structure and the Properties of Solids

Apr 07 2021

Physical Chemistry of Ionic Materials Mar 18 2022 Defects play an important role in determining the properties of solids. This book provides an introduction to chemical bond, phonons, and thermodynamics; treatment of point defect formation and reaction, equilibria, mechanisms, and kinetics; kinetics chapters on solid state processes; and electrochemical techniques and applications. * Offers a coherent description of fundamental defect chemistry and the most common applications. * Up-to-date trends and developments within this field. * Combines electrochemical concepts with aspects of semiconductor physics.

Chemistry for Degree Students B.Sc. First Year (LPSPE) Oct 13 2021 An outgrowth of more than three decades of classroom teaching experience, this book provides a comprehensive treatment of the subject. It comprises three parts; Inorganic, Organic and Physical Chemistry. Illustrations and diagrams are provided to help students in understanding the chemical structures and reactions. This book will meet the requirements of undergraduate students of B.Sc. First Year of all Indian universities.

Solid State Physics Latt.Dynamics of Ionic Solids Oct 25 2022

Thermodynamic Modeling of Solid Phases Jul 10 2021 This book offers advanced students, in 7 volumes, successively characterization tools phases, the study of all types of phase, liquid, gas and solid, pure or multi-component, process engineering, chemical and electrochemical equilibria, the properties of surfaces and phases of small sizes. Macroscopic and microscopic models are in turn covered with a constant correlation between the two scales. Particular attention is given to the rigor of mathematical developments. This book focuses on solid phases.

Chemistry in Context for Cambridge International AS & A Level Aug 31 2020 The ever-popular Chemistry In Context resource has been updated by the experienced author team to provide chemistry students with a comprehensive and dependable textbook for their studies, regardless of syllabus. Mapped to the latest Cambridge AS & A Level Chemistry syllabus (9701), this text supports students with its stretching, problem-solving approach. It helps foster long-term performance in chemistry, as well as building students' confidence for their upcoming examinations. The practical approach helps to make chemistry meaningful and contextual, building foundations for further education.

Chemistry-vol-I Jul 30 2020 A text book on Chemistry

Bonding, Structure and Solid-state Chemistry Sep 12 2021 This work begins with the first principles of bonding, structure and solid state chemistry, and can be appreciated by non-specialists. The study is aided by carefully prepared problems with fully worked solutions. It provides a suite of computer programs devised especially for the book.

Electronic Structure and the Properties of Solids Jun 16 2019 This text offers basic understanding of the electronic structure of covalent and ionic solids, simple metals, transition metals and their compounds; also explains how to calculate dielectric, conducting, bonding properties.

Inorganic Chemistry for Geochemistry and Environmental Sciences Nov 21 2019 Inorganic Chemistry for Geochemistry and Environmental Sciences: Fundamentals and Applications discusses the structure, bonding and reactivity

of molecules and solids of environmental interest, bringing the reactivity of non-metals and metals to inorganic chemists, geochemists and environmental chemists from diverse fields. Understanding the principles of inorganic chemistry including chemical bonding, frontier molecular orbital theory, electron transfer processes, formation of (nano) particles, transition metal-ligand complexes, metal catalysis and more are essential to describe earth processes over time scales ranging from 1 nanosec to 1 Gigayr. Throughout the book, fundamental chemical principles are illustrated with relevant examples from geochemistry, environmental and marine chemistry, allowing students to better understand environmental and geochemical processes at the molecular level. Topics covered include: • Thermodynamics and kinetics of redox reactions • Atomic structure • Symmetry • Covalent bonding, and bonding in solids and nanoparticles • Frontier Molecular Orbital Theory • Acids and bases • Basics of transition metal chemistry including • Chemical reactivity of materials of geochemical and environmental interest Supplementary material is provided online, including PowerPoint slides, problem sets and solutions. Inorganic Chemistry for Geochemistry and Environmental Sciences is a rapid assimilation textbook for those studying and working in areas of geochemistry, inorganic chemistry and environmental chemistry, wishing to enhance their understanding of environmental processes from the molecular level to the global level.

Chemistry for Degree Students (B.Sc. 1St Yr.) Nov 14 2021 For B.Sc. I year students. Matter on inclusion compounds, charge transfer complexes and clatherates in chapter 1 of organic chemistry has been rewritten to cover them thoroughly. A new chapter Thermodynamics -I containing first law of thermodynamics and thermochemistry, which forms a part of syllabus for B.Sc.-I year in some universities.

Chemistry Jan 24 2020 From core concepts to current applications, Chemistry: The Practical Science makes the connections from chemistry concepts to the world we live in, developing effective problem solvers and critical thinkers for today's visual, technology-driven world. Students learn to appreciate the role of asking questions in the process of chemistry and begin to think like chemists. In addition, real-world applications are interwoven throughout the narrative, examples, and exercises, presenting core chemical concepts in the context of everyday life. This integrated approach encourages curiosity and demonstrates the relevance of chemistry and its uses in students' lives, their future careers, and their world. For this Media Enhanced Edition, a wealth of online support is seamlessly integrated with the textbook content to complete this innovative program.

The Basics of States of Matter Aug 11 2021 Provides basic information on states of matter, discussing the properties of each one. Includes biographical information on Antoine Lavoisier, color photographs and diagrams, sidebars, a glossary, and further reading sources.

Chemistry: Principles and Practice Dec 23 2019 A text that truly embodies its name, CHEMISTRY: PRINCIPLES AND PRACTICE connects the chemistry students learn in the classroom (principles) with real-world uses of chemistry (practice). The authors accomplish this by starting each chapter with an application drawn from a chemical field of interest and revisiting that application throughout the chapter. The Case Studies, Practice of Chemistry essays, and Ethics in Chemistry questions reinforce the connection of chemistry topics to areas such as forensics, organic chemistry, biochemistry, and industry. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advanced Inorganic Chemistry Volume I (LPSPE) Feb 17 2022 Advanced Inorganic Chemistry - Volume I is a concise book on basic concepts of inorganic chemistry. It acquaints the students with the basic principles of chemistry and further dwells into the chemistry of main group elements and their compounds. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

On the Theory of Crystal Stability and Elastic Constants of Simple Ionic Solids Oct 01 2020

Comprehensive Chemistry XII Feb 05 2021

Adsorption on Ordered Surfaces of Ionic Solids and Thin Films May 20 2022 Adsorption on Ordered Surfaces of Ionic Solids and Thin Films introduces to a new and topical field of surface science for which rather little experience is available at present. It reviews the recent results of the employed analytical methods comprising all modern surface techniques including scanning tunneling microscopy and various kinds of electron spectroscopies. The present status of this new, clearly defined field of surface science is nearly completely overviewed by contributions from most of the research groups active in this field. The book is meant as a basis for the expected rapid development in this area with applications in catalysis, thin-film and semiconductor technology, sensors, electrochemistry, controlled preparation of ultrathin epitaxial surfaces, and interfaces of insultors as well as future molecular electronics.

Ionic Compounds Sep 24 2022 A practical introduction to ionic compounds for both mineralogists and chemists, this book bridges the two disciplines. It explains the fundamental principles of the structure and bonding in minerals, and emphasizes the relationship of structure at the atomic level to the symmetry and properties of crystals. This is a great reference for those interested in the chemical and crystallographic properties of minerals.

Quantum Physics of Matter Jun 28 2020 Quantum Physics of Matter explores the way in which quantum physics determines the properties of materials. The quantum physics of solids, for example, dictates whether they are good insulators, conductors, semiconductors, or even superconductors. At a deeper level, it explores how the quantum physics of nuclei and elementary particles determines the stability of matter and hence the range of substances that came into existence through the big bang and the evolution of stars.

Ionic Solids at High Temperatures Aug 23 2022 Most studies of solids at high temperatures have concentrated on rare gases or metals. However, in the last few years, the special properties of ionic solids at high temperatures have become increasingly important, with applications to geophysics, ceramic processing, nuclear fuels, solid-state electrolytes, and so on.

This volume includes a review by W Hayes and M Hutchings on some of the recent experiments, notably comprehensive work on crystals with fluorite structure, including uranium dioxide. Such experiments can be both difficult to perform and are equally difficult to interpret. There have also been striking developments in the quantitative atomistic theory of defect properties and transport. All these are studied from different aspects in the following three reviews: on anharmonic lattice dynamics using the shell model (R Ball), on the prediction of defect free energies and transport (J Harding) and on dynamical simulations of superionic conductors (M Gillan).

Thermal Decomposition of Ionic Solids Jul 22 2022 Furthermore, many of these rate processes have substantial technological importance, for example, in the manufacture of cement, the exploitation of ores and in the stability testing of drugs, explosives and oxidizing agents. Despite the prolonged and continuing research effort concerned with these reactions, there is no recent overall review. This book is intended to contribute towards correcting this omission. The essential unity of the subject is recognized by the systematic treatment of reactions, carefully selected to be instructive and representative of the subject as a whole.-

Fundamental Aspects of Inert Gases in Solids Sep 19 2019 The NATO Advanced Research Workshop on Fundamental Aspects of Inert Gases in Solids, held at Bonas, France from 16-22 September 1990, was the fifth in a series of meetings that have been held in this topic area since 1979. The Consultants' Meeting in that year at Harwell on Rare Gas Behaviour in Metals and Ionic Solids was followed in 1982 by the Jiilich Inter national Symposium on Fundamental Aspects of Helium in Metals. Two smaller meetings have followed-a CECAM organised workshop on Helium Bubbles in Metals was held at Orsay, France in 1986 while in February 1989, a Topical Symposium on Noble Gases in Metals was held in Las Vegas as part of the large TMS/AIME Spring Meeting. As is well known, the dominating feature of inert gas atoms in most solids is their high heat of solution, leading in most situations to an essentially zero solubility and gas-atom precipita tion. In organising the workshop, one particular aim was to target the researchers in the field of inert-gas/solid interactions from three different areas--namely metals, tritides and nuclear fuels-in order to encourage and foster the cross-fertilisation of approaches and ideas. In these three material classes, the behaviour of inert gases in metals has probably been most studied, partly from technological considerations-the effects of helium production via (n, a) reac tions during neutron irradiation are of importance, particularly in a fusion reactor environ ment-and partly from a more fundamental viewpoint.

Materials Science Dec 15 2021 We take an opportunity to present 'Material Science'to the students of A.M.I.E.(I)Diploma stream in particular,and other engineering students in general.he object of this book is to present the subject matter in a most concise,compact,to the point and lucis manner.While preparing the book,we have constantly kept in mind the requirments of A.M.I.E(I) students,regarding the latest trend of their examination.To make it really useful for the A.M.I.E.(I) students,the solutions of their complete examination has been written in an easy style,with full detail and illustrations.

Understanding Solid State Physics Jun 09 2021 Enables students to easily grasp basic solid state physics principles Keeping the mathematics to a minimum yet losing none of the required rigor, Understanding Solid State Physics clearly explains basic physics principles to provide a firm grounding in the subject. The author underscores the technological applications of the physics discussed and emphasizes the multidisciplinary nature of scientific research. After introducing students to solid state physics, the text examines the various ways in which atoms bond together to form crystalline and amorphous solids. It also describes the measurement of mechanical properties and the means by which the mechanical properties of solids can be altered or supplemented for particular applications. The author discusses how electromagnetic radiation interacts with the periodic array of atoms that make up a crystal and how solids react to heat on both atomic and macroscopic scales. She then focuses on conductors, insulators, semiconductors, and superconductors, including some basic semiconductor devices. The final chapter addresses the magnetic properties of solids as well as applications of magnets and magnetism. This accessible textbook provides a useful introduction to solid state physics for undergraduates who feel daunted by a highly mathematical approach. By relating the theories and concepts to practical applications, it shows how physics is used in the real world.

Thermal Decomposition of Ionic Solids Jun 21 2022 The principal objective of this book is to stimulate interest in research that will extend available theory towards a greater understanding of the steps involved in solid-state decompositions and the properties of solids that control reactivities. Much of the activity in this field has been directed towards increasing the range of reactants for which decomposition kinetic data is available, rather than extending insights into the fundamental chemistry of the reactions being studied. The first part of the book (Chapters 1-6) is concerned with theoretical aspects of the subject. The second part (Chapters 7-17) surveys groups of reactions classified by similarities of chemical composition. The final Chapter (18) reviews the subject by unifying features identified as significant and proposes possible directions for future progress. Studies of thermal reactions of ionic compounds have contributed considerably to the theory of solid-state chemistry. Furthermore, many of these rate processes have substantial technological importance, for example, in the manufacture of cement, the exploitation of ores and in the stability testing of drugs, explosives and oxidizing agents. Despite the prolonged and continuing research effort concerned with these reactions, there is no recent overall review. This book is intended to contribute towards correcting this omission. The essential unity of the subject is recognized by the systematic treatment of reactions, carefully selected to be instructive and representative of the subject as a whole. The authors have contributed more than 200 original research articles to the literature, many during their 25 years of collaboration. Features of this book: • Gives a comprehensive in-depth survey of a rarely-reviewed subject. • Reviews methods used in studies of thermal decompositions of solids. • Discusses patterns of subject development perceived from an extensive literature survey. This book is expected to be of greatest value and interest to scientists concerned with the chemical properties and reactions of solids, including chemists, physicists, pharmacists, material scientists, crystallographers, metallurgists and others. This

wide coverage of the literature dealing with thermal reactions of solids will be of value to both academic and industrial researchers by reviewing the current status of the theory of the subject. It could also provide a useful starting point for the exploitation of crystalline materials in practical and industrial applications. The contents will also be relevant to a wide variety of researchers, including, for example, those concerned with the stabilities of polymers and composite materials, the processing of minerals, the shelf-lives of pharmaceuticals, etc.

Chemistry: Concepts and Problems Oct 21 2019 CHEMISTRY SECOND EDITION The fast, easy way to master the fundamentals of chemistry Have you ever wondered about the differences between liquids,gases, and solids? Or what actually happens when something burns?What exactly is a solution? An acid? A base? This is chemistry--thecomposition and structure of substances composing all matter, andhow they can be transformed. Whether you are studying chemistry forthe first time on your own, want to refresh your memory for a test,or need a little help for a course, this concise, interactive guidegives you a fresh approach to this fascinating subject. This fullyup-to-date edition of Chemistry: Concepts and Problems: * Has been tested, rewritten, and retested to ensure that you canteach yourself all about chemistry * Requires no prerequisites * Lets you work at your own pace with a helpful question-and-answerformat * Lists objectives for each chapter--you can skip ahead or findextra help if you need it * Reinforces what you learn with chapter self-tests

Research Methodologies and Practical Applications of Chemistry May 28 2020 This new volume, Research Methodologies and Practical Applications of Chemistry, presents a detailed analysis of current experimental and theoretical approaches surrounding chemical science. With an emphasis on multidisciplinary as well as interdisciplinary applications, the book extensively reviews fundamental principles and presents recent research to help show logical connections between the theory and application of modern chemistry concepts. It also emphasizes the behavior of materials from the molecular point of view. The burgeoning field of chemistry and chemical science has led to many recent technological innovations and discoveries. Understanding the impact of these technologies on business, science, and industry is an important first step in developing applications for a variety of settings and contexts. The aim of this book is to present research that has transformed this discipline and aided its advancement. The book examines the strengths and future potential of chemical technologies in a variety of industries.

Chemistry Aug 19 2019 CHEMISTRY

General Chemistry for Engineers Dec 03 2020 General Chemistry for Engineers explores the key areas of chemistry needed for engineers. This book develops material from the basics to more advanced areas in a systematic fashion. As the material is presented, case studies relevant to engineering are included that demonstrate the strong link between chemistry and the various areas of engineering. Serves as a unique chemistry reference source for professional engineers Provides the chemistry principles required by various engineering disciplines Begins with an 'atoms first' approach, building from the simple to the more complex chemical concepts Includes engineering case studies connecting chemical principles to solving actual engineering problems Links chemistry to contemporary issues related to the interface between chemistry and engineering practices

Principles of Inorganic Chemistry Jan 04 2021 Aimed at senior undergraduates and first-year graduate students, this book offers a principles-based approach to inorganic chemistry that, unlike other texts, uses chemical applications of group theory and molecular orbital theory throughout as an underlying framework. This highly physical approach allows students to derive the greatest benefit of topics such as molecular orbital acid-base theory, band theory of solids, and inorganic photochemistry, to name a few. Takes a principles-based, group and molecular orbital theory approach to inorganic chemistry The first inorganic chemistry textbook to provide a thorough treatment of group theory, a topic usually relegated to only one or two chapters of texts, giving it only a cursory overview Covers atomic and molecular term symbols, symmetry coordinates in vibrational spectroscopy using the projection operator method, polyatomic MO theory, band theory, and Tanabe-Sugano diagrams Includes a heavy dose of group theory in the primary inorganic textbook, most of the pedagogical benefits of integration and reinforcement of this material in the treatment of other topics, such as frontier MO acid--base theory, band theory of solids, inorganic photochemistry, the Jahn-Teller effect, and Wade's rules are fully realized Very physical in nature compare to other textbooks in the field, taking the time to go through mathematical derivations and to compare and contrast different theories of bonding in order to allow for a more rigorous treatment of their application to molecular structure, bonding, and spectroscopy Informal and engaging writing style; worked examples throughout the text; unanswered problems in every chapter; contains a generous use of informative, colorful illustrations

Objective Physics Mar 26 2020

Molecular Technology, Volume 4 Mar 06 2021 Edited by foremost leaders in chemical research together with a number of distinguished international authors, this fourth volume summarizes the most important and promising recent developments in synthesis, polymer chemistry and supramolecular chemistry. Interdisciplinary and application-oriented, this ready reference focuses on innovative methods, covering new developments in catalysis, synthesis, polymers and more.

Understanding the Properties of Matter Jan 16 2022 Understanding the Properties of Matter: 2nd Edition takes a unique phenomenological approach to the presentation of matter, materials, and solid-state physics. After an overview of basic ideas and a reminder of the importance of measurement, the author considers in turn gases, solids, liquids, and phase changes. For each topic, the focus is on "what happens." After a preliminary examination of data on the properties of matter, the author raises, then addresses a series of questions concerning the data. It is only in answering these questions that he adopts the theoretical approach to the properties of matter. This approach can reawaken in readers the fascination for the subject that inspired some of the greatest physicists of our age. Examples and extensive exercises reinforce the concepts. A supporting Web site furnishes for free download a plethora of additional materials, including: " Supplementary chapters on the band

theory of solids and the magnetic properties of solids " Copies of all the data talbes used in the book, in PDF and spreadsheet formats " Enlarged copies of all figures " A simple molecular dynamics simulation " Animations uillustrating important featrues of key equations " Answers to the end-of-chapter exercises Understanding the Properties of Matter is an entertaining and innovative text accessible at the undergraduate level.

Chemistry Class 12 Apr 26 2020 1. Solid State 2. Solutions 3. Electro-Chemistry 4. Chemical Kinetics 5. Surface Chemistry 6. General Principles And Processes Of Isolation Of Elements 7. P-Block Elements 8. D-And F-Block Elements 9. Coordination Compounds And Organometallics 10. Haloalkanes And Haloarenes 11. Alcohols, Phenols And Ethers 12. Aldehydes Ketones And Carboxylic Acids 13. Organic Compounds Containing Nitrogen 14. Biomolecules 15. Polymers 16. Chemistry In Everyday Life Appendix : 1. Important Name Reactions And Process 2. Some Important Organic Conversion 3. Some Important Distinctions Long - Antilog Table Board Examination Papers.

Satya Prakash's Modern Inorganic Chemistry May 08 2021 Satya Prakash's Modern Inorganic Chemistry is a treatise on the chemistry of elements on the basis of latest theories of Chemistry. Initial chapters are devoted to the study of fundamentals of Chemistry such as structure of atom, periodic classification of elements, chemical bonding and radioactivity, to name a few. It further graduates to complex discussions not only on extraction, properties and uses of the elements but also on preparation, properties, uses and structure of their important compounds. Chemistry of elements and their compounds have been explained on the basis of their position in the long form of periodic table and their electronic configurations/structures. Special emphasis has been put on the discussion of the correction between the structure and properties of elements/ compound. The book caters to the requirements of Bachelor in Science (Pass) courses. With detailed discussion on several advanced topics, the students of Bachelor in Science (Honours) and Masters in Science would also find it extremely useful.

Shriver and Atkins' Inorganic Chemistry Jul 18 2019 Inorganic Chemistry fifth edition represents an integral part of a student's chemistry education. Basic chemical principles are set out clearly in 'Foundations' and are fully developed throughout the text, culminating in the cutting-edge research topics of the 'Frontiers', which illustrate the dynamic nature of inorganic chemistry.

Adsorption on Ordered Surfaces of Ionic Solids and Thin Films Apr 19 2022

Lehrbuch der physikalischen Chemie Nov 02 2020 Präzise, exakt, bewährt, aber mit sehr viel frischem Wind ist diese sechste Neuaufl age 'des Wedlers', ein Lehrbuchklassiker der Physikalischen Chemie, von Hans-Joachim Freund ganz auf die aktuellen Bedürfnisse von Bachelor- und Masterstudenten ausgerichtet worden. Nicht nur die Teilgebiete der Physikalischen Chemie werden ausführlich und verständlich dargestellt, sondern auch die wichtigen Bezüge zu den Nachbarwissenschaften. Der Fokus des Lehrbuchs liegt auf dem wirklichen Verstehen der grundlegenden Begriffe und Zusammenhänge in der Physikalischen Chemie, auf der Arbeitsmethodik und auf dem Erkennen der Grenzen der Aussagemöglichkeiten. * Didaktisch hervorragend aufgrund der jahrelangen Erfahrung in Lehre und Forschung von Gerd Wedler und Hans-Joachim Freund. * Das bewährte Konzept wurde verfeinert, aktualisiert, ergänzt und neu gewichtet. * Besonders schwierig zu Erfassendes wird Schritt für Schritt erklärt und mit exakten mathematischen Herleitungen für alle physikalisch-chemischen Zusammenhänge leicht nachvollziehbar. * Zahlreiche Rechenbeispiele helfen darüber hinaus beim Verstehen der Sachverhalte und der didaktische Einsatz von Farbe lenkt die Aufmerksamkeit auf das Wichtige. * Alle Kernaussagen und -inhalte sind am Ende jedes Kapitels kompakt zusammengefasst. * Jetzt mit noch mehr Aufgaben zur optimalen Prüfungsvorbereitung. * Die Neuaufl age des Lehrbuchs wird erstmals von einem Arbeitsbuch begleitet, das die ausführlichen Lösungswege zu den Aufgaben zum Selbststudium beinhaltet.

Chemistry Class - XII - SBPD Publications [2022-23] Feb 23 2020 1. Solid State 2. Solutions 3. Electro-Chemistry 4. Chemical Kinetics 5. Surface Chemistry 6. General Principles And Processes Of Isolation Of Elements 7. P-Block Elements 8. D-And F-Block Elements 9. Coordination Compounds And Organometallics 10. Haloalkanes And Haloarenes 11. Alcohols, Phenols And Ethers 12. Aldehydes Ketones And Carboxylic Acids 13. Organic Compounds Containing Nitrogen 14. Biomolecules 15. Polymers 16. Chemistry In Everyday Life Appendix : 1. Important Name Reactions And Process 2. Some Important Organic Conversion 3. Some Important Distinctions Long - Antilog Table Board Examination Papers.