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Pharmaceutical Chemistry - Inorganic (Vol. I). A Textbook of Inorganic Chemistry - Volume 1 Advanced Inorganic Chemistry - Volume I Advanced Inorganic Chemistry - Volume II Inorganic Photochemistry General and Inorganic Chemistry Inorganic Chemistry in Aqueous Solution Inorganic Structural Chemistry Advanced Inorganic Chemistry Comprehensive Inorganic Chemistry II Inorganic and Organometallic Polymers Aluminium and Its Congeners Molybdenum General & Inorganic Chemistry Vol 1 Progress in Inorganic Chemistry Progress in Inorganic Chemistry Inorganic Chemistry Phosgene Handbook of Preparative Inorganic Chemistry Nanoscale Coordination Chemistry Advances in Inorganic Chemistry An Appreciation of Henry Taube Theoretical Foundations of Molecular Magnetism Synthetic Methods of Organometallic and Inorganic Chemistry: Copper, silver, gold, zinc, cadmium, and mercury Handbook of Preparative Inorganic Chemistry Synthetic Inorganic Chemistry Inorganic Syntheses Progress in Inorganic Chemistry Fundamentals of Inorganic Glasses Inorganic Chemistry Inorganic Syntheses The English Catalogue of Books Polyoxometalate Chemistry Biological Inorganic Chemistry Inorganic Syntheses M ö ssbauer Spectroscopy Applied to Inorganic Chemistry Elements of economics of industry, the first vol. of Elements of economics TEXT-BK OF INORGANIC CHEMISTRY Advances in Inorganic Chemistry Inorganic Structural Chemistry

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. The essential introduction to the understanding of the structure of inorganic solids and materials. This revised and updated 2nd Edition looks at new developments and research results within Structural Inorganic Chemistry in a number of ways, special attention is paid to crystalline solids, elucidation and description of the spatial order of atoms within a chemical compound. Structural principles of inorganic molecules and solids are described through traditional concepts, modern bond-theoretical theories, as well as taking symmetry as a leading principle. The importance of metals in biology, the environment and medicine has become increasingly evident over the last twenty five years. The study of the multiple roles of metal ions in biological systems, the rapidly expanding interface between inorganic chemistry and biology constitutes the subject called Biological Inorganic Chemistry. The present text, written by a biochemist, with a long career experience in the field (particularly iron and copper) presents an introduction to this exciting and dynamic field. The book begins with introductory chapters, which together constitute an overview of the concepts, both chemical and biological, which are required to equip the reader for the detailed analysis which follows. Pathways of metal assimilation, storage and transport, as well as metal homeostasis are dealt with next. Thereafter, individual chapters discuss the roles of sodium and potassium, magnesium, calcium, zinc, iron, copper, nickel and cobalt, manganese, and finally molybdenum, vanadium, tungsten and chromium. The final three chapters provide a tantalising view of the roles of metals in brain function, biomineralization and a brief illustration of their importance in both medicine and the environment. Relaxed and agreeable writing style. The reader will not only find the book easy to read, the fascinating anecdotes and footnotes will give him pegs to hang important ideas on. Written by a biochemist. Will enable the reader to more readily grasp the biological and clinical relevance of the subject. Many colour illustrations. Enables easier visualization of molecular mechanisms Written by a single author. Ensures homogeneity of style and effective cross referencing between chapters The volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry. Includes inorganic polymer syntheses and preparation of important inorganic solids, syntheses used in the development of pharmacologically active inorganic compounds, small-molecule coordination complexes, and related compounds. Also contains valuable information on transition organometallic compounds including species with metal-metal cluster molecules. All syntheses presented here have been tested. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact,

this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. This comprehensive series of volumes on inorganic chemistry provides inorganic chemists with a forum for critical, authoritative evaluations of advances in every area of the discipline. Every volume reports recent progress with a significant, up-to-date selection of papers by internationally recognized researchers, complemented by detailed discussions and complete documentation. Each volume features a complete subject index and the series includes a cumulative index as well. Synthetic Inorganic Chemistry: New Perspectives presents summaries of the work of some of the most creative researchers in the field. The book highlights the most novel approaches and burgeoning applications of synthetic inorganic chemistry in development. Topics include non-precious metals in catalysis, smart inorganic polymers, new inorganic therapeutics, new photocatalysts for hydrogen production, and more. As the first volume in the Developments in Inorganic Chemistry series, this work is a valuable resource for students and researchers working in inorganic chemistry and material science. Illustrates the scope and vitality of modern synthetic inorganic chemistry Shows the centrality of inorganic chemistry, addressing a variety of global challenges Serves to define the current, important and expanding roles of synthetic inorganic chemistry in interdisciplinary areas such as materials science, synthetic organic chemistry, homogeneous and heterogeneous catalysis An advanced-level textbook of inorganic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of four volume series, entitled "A Textbook of Inorganic Chemistry - Volume I, II, III, IV".

CONTENTS: Chapter 1. Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, $d-p$ bonds, Bent rule and energetic of hybridization. Chapter 2. Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interactions, Trends in stepwise constants, Factors affecting stability of metal complexes with reference to the nature of metal ion and ligand, Chelate effect and its thermodynamic origin, Determination of binary formation constants by pH-metry and spectrophotometry. Chapter 3. Reaction Mechanism of Transition Metal Complexes - I: Inert and labile complexes, Mechanisms for ligand replacement reactions, Formation of complexes from aquo ions, Ligand displacement reactions in octahedral complexes- acid hydrolysis, Base hydrolysis, Racemization of tris chelate complexes, Electrophilic attack on ligands. Chapter 4. Reaction Mechanism of Transition Metal Complexes - II: Mechanism of ligand displacement reactions in square planar complexes, The trans effect, Theories of trans effect, Mechanism of electron transfer reactions - types; Outer sphere electron transfer mechanism and inner sphere electron transfer mechanism, Electron exchange. Chapter 5. Isopoly and Heteropoly Acids and Salts: Isopoly and Heteropoly acids and salts of Mo and W: structures of isopoly and heteropoly anions. Chapter 6. Crystal Structures: Structures of some binary and ternary compounds such as fluorite, antiferite, rutile, antirutile, cristobalite, layer lattices- CdI_2 , BiI_3 ; ReO_3 , Mn_2O_3 , corundum, perovskite, Ilmenite and Calcite. Chapter 7. Metal-Ligand Bonding: Limitation of crystal field theory, Molecular orbital theory, octahedral, tetrahedral or square planar complexes, π -bonding and molecular orbital theory. Chapter 8. Electronic Spectra of Transition Metal Complexes: Spectroscopic ground states, Correlation and spin-orbit coupling in free ions for 1st series of transition metals, Orgel and Tanabe-Sugano diagrams for transition metal complexes ($d_1 - d_9$ states), Calculation of Dq , B and C parameters, Effect of distortion on the d-orbital energy levels, Structural evidence from electronic spectrum, John-Teller effect, Spectrochemical and nephelauxetic series, Charge transfer spectra, Electronic spectra of molecular addition compounds. Chapter 9. Magnetic Properties of Transition Metal Complexes: Elementary theory of magneto-chemistry, Guoy's method for determination of magnetic susceptibility, Calculation of magnetic moments, Magnetic properties of free ions, Orbital contribution, effect of ligand-field, Application of magneto-chemistry in structure determination, Magnetic exchange coupling and spin state cross over. Chapter 10. Metal Clusters: Structure and bonding in higher boranes, Wade's rules, Carboranes, Metal Carbonyl Clusters - Low Nuclearity Carbonyl Clusters, Total Electron Count (TEC). Chapter 11. Metal-Complexes: Metal carbonyls, structure and bonding, Vibrational spectra of metal carbonyls for bonding and structure elucidation, Important reactions of metal carbonyls; Preparation, bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; Tertiary phosphine as ligand. The Advances in Inorganic Chemistry series, presents timely and informative summaries on current progress in a variety of subject areas. This acclaimed series features reviews written by experts in the field, serving as an indispensable reference to advanced researchers that empowers readers to pursue new developments in each field. Users will find this to be a comprehensive overview of recent findings and trends from the last decade that covers various kinds of inorganic topics, from theoretical oriented supramolecular chemistry, to the quest for accurate calculations of spin states in transition metals. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the

Advances in Inorganic Chemistry series Includes the latest information on nanoscale coordination chemistry

Molybdenum is an element with an extremely rich and interesting chemistry having very versatile applications in various fields of human activity. It is used extensively in metallurgical applications. Because of their anti-wear properties, molybdenum compounds find wide applications as lubricants - particularly in extreme or hostile environmental situations. Many molybdates and heteropolymolybdates are white and therefore used as pigments. In addition, they are non-toxic and act as efficient corrosion inhibitors and smoke suppressants. Hydroprocessing of petroleum is one of the largest industries employing heterogeneous catalysts. Molybdenum catalysts have shown great promise in the liquefaction of coal and this may develop into one of its most important catalytic uses. The use of molybdenum compounds in homogeneous catalysis is also significant. Three important classes of molybdenum compounds in the solid state are reviewed, viz., oxides, sulphides and halides. The role of molybdenum in inorganic catalysis and enzymes receives prominent mention because of their impact on the progress of science and technology. Further biochemical and enzymic factors are discussed in separate chapters and their reaction to agriculture and animal husbandry. A new classification of covalent compounds which abandons the traditional oxidation state concept allows a powerful approach to the organisation of the complex and rich chemistry of molybdenum. Dramatic colour diagrams of abundances of molybdenum compounds provide broad insights into the important features and trends in the chemistry of molybdenum including reactivity and mechanism. The book is intended for use mainly as a research monograph by the many workers who may encounter molybdenum chemistry or who are looking for its application and potential uses in different technological fields. However, it will also serve as an advanced text for university lecturers and postgraduate students interested in inorganic, physical and industrial chemistry, chemical technology or biochemistry and biotechnology.

Handbook of Preparative Inorganic Chemistry, Volume 2, Second Edition focuses on the methods, mechanisms, and chemical reactions involved in conducting experiments on inorganic chemistry. Composed of contributions of various authors, the second part of the manual focuses on elements and compounds. Included in the discussions are copper, silver, and gold. Numerical calculations and diagrams are presented to show the properties, compositions, and chemical reactions of these materials when exposed to varying laboratory conditions. The manual also looks at other elements such as scandium, yttrium, titanium, zirconium, hafnium, and thorium. Lengthy discussions on the characteristics and nature of these elements are presented. The third part of the guidebook discusses special compounds. The manual also provides formula and subject index, including an index for procedures, materials, and devices. Considering the value of information presented, the manual can best serve the interest of readers and scientists wanting to institute a system in the conduct of experiments in laboratories. This textbook provides essential information for students of inorganic chemistry or for chemists pursuing self-study. The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly.

Inorganic Chemistry 2E is divided into five major themes (structure, condensed phases, solution chemistry, main group and coordination compounds) with several chapters in each. There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures, to behavior of solids, etc. The author emphasizes fundamental principles-including molecular structure, acid-base chemistry, coordination chemistry, ligand field theory, and solid state chemistry -and presents topics in a clear, concise manner. There is a reinforcement of basic principles throughout the book. For example, the hard-soft interaction principle is used to explain hydrogen bond strengths, strengths of acids and bases, stability of coordination compounds, etc. The book contains a balance of topics in theoretical and descriptive chemistry.

New to this Edition: New and improved illustrations including symmetry and 3D molecular orbital representations
Expanded coverage of spectroscopy, instrumental techniques, organometallic and bio-inorganic chemistry
More in-text worked-out examples to encourage active learning and to prepare students for their exams
• Concise coverage maximizes student understanding and minimizes the inclusion of details students are unlikely to use.
• Discussion of elements begins with survey chapters focused on the main groups, while later chapters cover the elements in greater detail.
• Each chapter opens with narrative introductions and includes figures, tables, and end-of-chapter problem sets.

Polyoxometalate Chemistry continues a long-running series that describes recent advances in scientific research, in particular, in the field of inorganic chemistry. Several highly regarded experts, mostly from academia, contribute on specific topics. The current issue focuses on recent advances in the development and application of polyoxometalate complexes in areas such as solution chemistry, self-organization, solar fuels, non-aqueous chemistry, spintronics, nanoscience and catalysis. Presents a single monograph on recent developments in polyoxometalate chemistry as written by scientific leaders in this field
Concise and informative presentations cover a wide range of topics in this field of chemistry
Contains detailed literature references, enabling the reader to move on to the source of the reported work where more details can be found
Provides a solid presentation of a hard-cover book of excellent technical quality

Magnetochemistry is a

highly interdisciplinary field that attracts the interest of chemists, physicists and material scientists. Although the general strategy of theoretical molecular magnetism has been in place for decades, its performance for extended systems of interacting magnetic units can be very complicated. Professor Boca's book treats the "mosaic" of the theoretical approaches currently used in the field. This book presents a review of the theoretical concepts of molecular magnetism. The first chapter of the book recapitulates the necessary mathematical background. An overview of macroscopic magnetic properties is then presented. Formulation of magnetic parameters and methods of their calculation are given, followed by a brief summary of magnetic behaviour. The core of the book deals with the temperature dependence of magnetic susceptibility for mononuclear complexes, dimers, and exchange-coupled clusters. This book will be particularly useful for those scientists and students working in the field of molecular magnetism who need to refer to a complete and systematic treatment of the mathematics of magneto-chemical theory. Vols. for 1898-1968 include a directory of publishers. This part of the book deals mainly with chemistry of the elements meant for 3rd year degree students. Inorganic Chemistry in Aqueous Solution is aimed at undergraduate chemistry students but will also be welcomed by geologists interested in this field. Comprehensive Inorganic Chemistry II reviews and examines topics of relevance to today's inorganic chemists. Covering more interdisciplinary and high impact areas, Comprehensive Inorganic Chemistry II includes biological inorganic chemistry, solid state chemistry, materials chemistry, and nanoscience. The work is designed to follow on, with a different viewpoint and format, from our 1973 work, Comprehensive Inorganic Chemistry, edited by Bailar, Emel'us, Nyholm, and Trotman-Dickenson, which has received over 2,000 citations. The new work will also complement other recent Elsevier works in this area, Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry, to form a trio of works covering the whole of modern inorganic chemistry. Chapters are designed to provide a valuable, long-standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements, their compounds, or applications. Chapters are written by teams of leading experts, under the guidance of the Volume Editors and the Editors-in-Chief. The articles are written at a level that allows undergraduate students to understand the material, while providing active researchers with a ready reference resource for information in the field. The chapters will not provide basic data on the elements, which is available from many sources (and the original work), but instead concentrate on applications of the elements and their compounds. Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields, such as: biological inorganic chemistry, materials chemistry, solid state chemistry and nanoscience. Inorganic chemistry is rapidly developing, which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information. Forms the new definitive source for researchers interested in elements and their applications; completely replacing the highly cited first edition, which published in 1973. A balanced and concise coverage of inorganic polymers Inorganic polymers contain elements other than carbon as part of their principal backbone structure and are known to exhibit a wide range of composition and structure. Emphasizing physical properties, chemical synthesis, and characterization of inorganic polymers, Inorganic and Organometallic Polymers presents valuable and informative coverage of the field. With numerous examples of real-world practical applications and end-of-chapter exercises, Inorganic and Organometallic Polymers is suitable for use as a text in special topics in organic and polymer chemistry courses. The book features useful sections on: Classification schemes for inorganic polymers Synthesis of inorganic polymers, including step-growth syntheses, chain polymerizations, ring-opening polymerizations, and reductive coupling reactions Practical inorganic polymer chemistry topics such as polymer elastomers, dental and medical polymers, lubricants, lithographic resists, pre-ceramics, and more Inorganic and Organometallic Polymers is a valuable one-volume introduction for professional and student inorganic chemists, polymer chemists, and materials scientists. Advances in Inorganic Chemistry presents timely, informative and comprehensive reviews of the current progress in all areas within inorganic chemistry ranging from bio-inorganic to solid state studies. This acclaimed serial features reviews written by experts in the area and is an indispensable reference to advanced researchers. Each volume of Advances in Inorganic Chemistry contains an index, and each chapter is fully referenced. The latest volume in this highly successful series is dedicated to redox-active metal complexes Comprehensive reviews written by leading experts in the field An indispensable reference to advanced researchers The cutting edge of scientific reporting . . . PROGRESS in Inorganic Chemistry Nowhere is creative scientific talent busier than in the world of inorganic chemistry experimentation. Progress in Inorganic Chemistry continues in its tradition of being the most respected avenue for exchanging innovative research. This series provides inorganic chemists and materials scientists with a forum for critical, authoritative evaluations of advances in every area of the discipline. With contributions from internationally renowned chemists, this latest volume offers an in-depth, far-ranging examination of the changing face of the

field, providing a tantalizing glimpse of the emerging state of the science. "This series is distinguished not only by its scope and breadth, but also by the depth and quality of the reviews." –Journal of the American Chemical Society "[This series] has won a deservedly honored place on the bookshelf of the chemist attempting to keep afloat in the torrent of original papers on inorganic chemistry." –Chemistry in Britain

CONTENTS OF VOLUME 54: Atomlike Building Units of Adjustable Character: Solid-State and Solution Routes to Manipulating Hexanuclear Transition Metal Chalcogenide Clusters (Eric J. Welch and Jeffrey R. Long) Doped Semiconductor Nanocrystals: Synthesis, Characterization, Physical Properties, and Applications (J. Daniel Bryan and Daniel R. Gamelin) Stereochemical Aspects of Metal Xanthene Complexes: Molecular Structures and Supramolecular Self-Assembly (Edward R. T. Tiekink and Ionel Haiduc) Trivalent Uranium: A Versatile Species for Molecular Activation (Ilya Korobkov and Sandro Gambarotta) Comparison of the Chemical Biology of NO and HNO: An Inorganic Perspective (Katrina M. Miranda and David A. Wink) Alterations of Nucleobase pKa Values upon Metal Coordination: Origins and Consequences (Bernhard Lippert) Functionalization of Myoglobin (Yoshihito Watanabe and Takashi Hayashi)

The volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry. Includes inorganic polymer syntheses and preparation of important inorganic solids, syntheses used in the development of pharmacologically active inorganic compounds, small-molecule coordination complexes, and related compounds. Also contains valuable information on transition organometallic compounds including species with metal-metal cluster molecules. All syntheses presented here have been tested. The Advances in Inorganic Chemistry series present timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry, ranging from bio-inorganic to solid state studies. This acclaimed serial features reviews written by experts in the field and serves as an indispensable reference to advanced researchers. Each volume contains an index, and each chapter is fully referenced. Features comprehensive reviews on the latest developments. Includes contributions from leading experts in the field. Serves as an indispensable reference to advanced researchers.

In 1988 the Mossbauer effect community completed 30 years of continual contribution to the fields of nuclear physics, solid state science, and a variety of related disciplines. To celebrate this anniversary, Professor Gonser of the Universitat des Saarlandes has contributed a chapter to this volume on the history of the effect. Although Mossbauer spectroscopy has reached its mature years, the chapters in this volume illustrate that it is still a dynamic field of science with applications to topics ranging from permanent magnets to biological mineralization. During the discussion of a possible chapter for this volume, a potential author asked, "Do we really need another Mossbauer book?" The editors responded in the affirmative because they believe that a volume of this type offers several advantages. First, it provides the author with an opportunity to write a personal view of the subject, either with or without extensive pedagogic content. Second, there is no artificially imposed restriction on length. In response to the question, "How long should my chapter be?" we have responded that it should be as long as is necessary to clearly present, explain, and evaluate the topic. In this type of book, it is not necessary to condense the topic into two, four, or eight pages as is now so often a requirement for publication in the research literature. The volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry. Includes inorganic polymer syntheses and preparation of important inorganic solids, syntheses used in the development of pharmacologically active inorganic compounds, small-molecule coordination complexes, and related compounds. Also contains valuable information on transition organometallic compounds including species with metal-metal cluster molecules. All syntheses presented here have been tested.

Fundamentals of Inorganic Glasses, Third Edition, is a comprehensive reference on the field of glass science and engineering that covers numerous, significant advances. This new edition includes the most recent advances in glass physics and chemistry, also discussing groundbreaking applications of glassy materials. It is suitable for upper level glass science courses and professional glass scientists and engineers at industrial and government labs. Fundamental concepts, chapter-ending problem sets, an emphasis on key ideas, and timely notes on suggested readings are all included. The book provides the breadth required of a comprehensive reference, offering coverage of the composition, structure and properties of inorganic glasses. Clearly develops fundamental concepts and the basics of glass science and glass chemistry. Provides a comprehensive discussion of the composition, structure and properties of inorganic glasses. Features a discussion of the emerging applications of glass, including applications in energy, environment, pharmaceuticals, and more. Concludes chapters with problem sets and suggested readings to facilitate self-study. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the

United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Advanced Inorganic Chemistry - Volume II is a concise book on basic concepts of inorganic chemistry. Beginning with Coordination Chemistry, it presents a systematic treatment of all Transition and Inner-Transition chemical elements and their compounds according to the periodic table. Special topics such as Pollution and its adverse effects, chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities. The present book "Pharmaceutical Chemistry Inorganic, Vol I has been written according to the revised syllabus framed by the Pharmacy council of India as per Education Regulations 1991. In this book, subject matter has been recognised incorporating applicationwise classification (Therapeutic, pharmaceutical etc.) rather than the traditional chemical classification. More emphasis has been further laid by explaining the medical and pharmaceutical terms and to what extent it is justifiable to classify a compound under any of the categories. Inevitably, students will find repetition for some compou. The essential introduction to the understanding of the structure of inorganic solids and materials. This revised and updated 2nd Edition looks at new developments and research results within Structural Inorganic Chemistry in a number of ways, special attention is paid to crystalline solids, elucidation and description of the spatial order of atoms within a chemical compound. Structural principles of inorganic molecules and solids are described through traditional concepts, modern bond-theoretical theories, as well as taking symmetry as a leading principle. Phosgene, COCl₂ is a C1 chemical of major industrial importance. The annual production, worldwide, is more than 1 million tons; 90% of which is used in the manufacture of isocyanates and of polyurethane and polycarbonate resins. Phosgene is also extensively used as a synthetic reagent in organic chemistry, in particular in the preparation of acyl chlorides, chloroformate esters, organic carbonates and carbamoyl chlorides. Although more than 7000 papers have appeared on phosgene and some 1000 papers on its analogues, this is the first book on these interesting chemicals. It presents a critical treatise of phosgene, ranging from its discovery and subsequent use as a war gas to some potential applications of the material into the 21st century. It includes chapters on biological effects and industrial hygiene; on synthesis, formation and manufacture; analysis, uses, environmental effects, and physical and thermodynamic properties. Reactions with organic and inorganic materials are described. Four of the seventeen chapters are devoted to a description of the carbonyl halides (especially carbonyl difluoride) related to phosgene, and a special section deals collectively with the electronic structures of carbonyl halide molecules. Featuring the first-ever comprehensive discussion of the medical effects of phosgene poisoning and the most modern methods of treating exposure victims, the book will be of interest to historians and militarists and those working in the chemical industries (heavy chemicals, agricultural and pharmaceutical), university libraries, hospitals, medical research centres, museums, environmental research centres, poison units and health and safety institutions world-wide. This comprehensive series of volumes on inorganic chemistry provides inorganic chemists with a forum for critical, authoritative evaluations of advances in every area of the discipline. Every volume reports recent progress with a significant, up-to-date selection of papers by internationally recognized researchers, complemented by detailed discussions and complete documentation. Each volume features a complete subject index and the series includes a cumulative index as well.

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