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Elements

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Written by Glenn T. Seaborg,
Nobel Laureate and pre-eminent
figure in the field, with the
assistance of Walter D. Loveland,

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it covers all aspects of transuranium elements, including their discovery, chemical properties, nuclear properties, nuclear synthesis reactions, experimental techniques, natural occurrence, superheavy elements,

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and predictions for the future. Published on the fiftieth anniversary of the discovery of transuranium elements, it conveys the essence of the ideas and distinctive blend of theory and experiment that has marked their

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Boron has all the best tunes. That may well be the first impression of the Group 13 elements. The chemical literature fosters the impression not only in the primary journals, but also in a steady

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outflowofbooks focussing more or less closely on boron and its compounds. The same preoccupation with boron is apparent in the coverage received by the Group 13 elements in the comprehensive and regularly

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updated volume of the Gmelin Handbook. Yet such an imbalance cannot be explained by any inherent lack of variety, interest or consequence in the 'heavier elements. Aluminium is the most abundant metal in the earth's

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crust; in the industrialised world the metal is second only to iron in its usage, and its compounds can justifiably be said to touch our lives daily - to the potential detriment of those and other lives, some would argue. From being

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chemical curios, gallium and indium have now gained considerably prominence as sources of compound semiconductors like gallium arsenide and indium antimonide. Nor is there any want of incident

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in the chemistries of the heavier Group 13 elements. In their redox, coordination and structural properties, there is to be found music indeed, notable not always for its harmony but invariably for its richness and variety. This book

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seeks to redress the balance with a definitive, wide-ranging and up-to-date review of the chemistry of the Group 13 metals aluminium, gallium, indium and thallium. This comprehensive text provides readers with a thorough

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introduction to molecular symmetry and group theory as applied to chemical problems. Its friendly writing style invites the reader to discover by example the power of symmetry arguments for understanding otherwise

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intimidating theoretical problems in chemistry. A unique feature demonstrates the centrality of symmetry and group theory to a complete understanding of the theory of structure and bonding." Fundamental Concepts."

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Representations of Groups."
Techniques and Relationships for
Chemical Applications." Symmetry
and Chemical Bonding." Equations
for Wave Functions." Vibrational
Spectroscopy." Transition Metal
Complexes.

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When this innovative textbook first appeared in 1984 it rapidly became a great success throughout the world and has already been translated into several European and Asian languages. Now the authors have

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completely revised and updated the text, including more than 2000 new literature references to work published since the first edition. No page has been left unaltered but the novel features which proved so attractive have been

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retained. The book presents a balanced, coherent and comprehensive account of the chemistry of the elements for both undergraduate and postgraduate students. This crucial central area of chemistry is full of ingenious

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experiments, intriguing compounds and exciting new discoveries. The authors specifically avoid the term 'inorganic chemistry' since this evokes an outmoded view of chemistry which is no longer

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appropriate in the final decade of the 20th century. Accordingly, the book covers not only the 'inorganic' chemistry of the elements, but also analytical, theoretical, industrial, organometallic, bio-inorganic and

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other cognate areas of chemistry. The authors have broken with recent tradition in the teaching of their subject and adopted a new and highly successful approach based on descriptive chemistry. The chemistry of the elements is

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still discussed within the context of an underlying theoretical framework, giving cohesion and structure to the text, but at all times the chemical facts are emphasized. Students are invited to enter the exciting world of

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chemical phenomena with a sound knowledge and understanding of the subject, to approach experimentation with an open mind, and to assess observations reliably. This is a book that students will not only value during

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their formal education, but will keep and refer to throughout their careers as chemists. Completely revised and updated Unique approach to the subject More comprehensive than competing titles

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Modern Coordination Chemistry
Chemistry

Krypton, Xenon & Radon

Hypervalent Iodine Chemistry

Molecular Symmetry And Group
Theory

This text presents analytical

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techniques for the determination of heavy metals in air particles, water, soil and biological samples. It details experimental studies to reduce the occurrence of disease, remediate contaminated sites and establish acceptable range of oral

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intakes (AROI) guidelines.

The book "Chemical Reactions in Inorganic Chemistry" describes an overview of chemical reagents used in inorganic chemical reactions for the synthesis of different compounds including coordination,

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transition metal, organometallic, cluster, bioinorganic, and solid-state compounds. This book will be helpful for the graduate students, teachers, and researchers, and chemistry professionals who are interested to fortify and expand

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their knowledge about sol-gel preparation and application, porphyrin and phthalocyanine, carbon nanotube nano hybrids, triple bond between arsenic and group 13 elements, and N-heterocyclic carbene and its

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heavier analogues. It comprises a total of five chapters from multiple contributors around the world including China, India, and Taiwan. Solubility Data Series, Volume 2: Krypton, Xenon, and Radon □ Gas Solubilities is a three-chapter text

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that presents the solubility data of various forms of the title compounds in different substrates. This series emerged from the fundamental trend of the Solubility Data Project, which is toward integration of secondary and

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tertiary services to produce in-depth critical analysis and evaluation.

Each chapter deals with the experimental solubility data of the noble gases in several substrates, including water, salt solutions, organic compounds, and biological

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fluids. This book will prove useful to chemists, researchers, and students.

Transition metal oxides form a series of compounds with a uniquely wide range of electronic properties. The main aim of this

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book is to describe the varied electronic behaviour shown by transition metal oxides, and to discuss the different types of theoretical models that have been proposed to interpret this behaviour.

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Solid State Chemistry and Its
Applications
Chemical Reactions in Inorganic
Chemistry
Chemical Structure and Bonding
The Legacy of Joseph Chatt
Lanthanide and Actinide Chemistry

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*A revised and updated
English edition of a
textbook based on teaching
at the final year
undergraduate and graduate
level. It presents
structure and bonding,*

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*generalizations of
structural trends,
crystallographic data, as
well as highlights from
the recent literature.
Coordination chemistry, as
we know it today, has been*

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*shaped by major figures
from the past, one of whom
was Joseph Chatt.*

*Beginning with a
description of Chatt's
career presented by co-
workers, contemporaries*

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*and students, this
fascinating book then goes
on to show how many of
today's leading
practitioners in the
field, working in such
diverse areas as*

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phosphines, hydrogen complexes, transition metal complexes and nitrogen fixation, have been influenced by Chatt. The reader is then brought right up-to-date with the

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*inclusion of some of the
latest research on these
topics, all of which
serves to underline
Chatt's continuing legacy.
Intended as a permanent
record of Chatt's life,*

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work and influence, this book will be of interest to lecturers, graduate students, researchers and science historians.

This textbook provides essential information for

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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

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*user friendly. Inorganic
Chemistry 2E is divided
into five major themes
(structure, condensed
phases, solution
chemistry, main group and
coordination compounds)*

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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

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*behavior of solids, etc.
The author emphasizes
fundamental principles-
including molecular
structure, acid-base
chemistry, coordination
chemistry, ligand field*

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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

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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

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*balance of topics in
theoretical and
descriptive chemistry. New
to this Edition: New and
improved illustrations
including symmetry and 3D
molecular orbital*

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*representations Expanded
coverage of spectroscopy,
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organometallic and bio-
inorganic chemistry More
in-text worked-out
examples to encourage*

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*active learning and to
prepare students for their
exams • Concise coverage
maximizes student
understanding and
minimizes the inclusion of
details students are*

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unlikely to use. •

*Discussion of elements
begins with survey
chapters focused on the
main groups, while later
chapters cover the
elements in greater*

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detail. • *Each chapter opens with narrative introductions and includes figures, tables, and end-of-chapter problem sets. The fundamentals of "supramolecular chemistry"*

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to the latest developments on the subject are covered by this book. It sets out to explain the topic in a relatively easy way. The basic concepts of molecular recognition

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*chemistry are included.
Molecules with fascinating
shapes and functions such
as fullerenes, carbon
nanotubes, dendrimers,
rotaxane, and catenane,
and molecular assemblies*

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are also explained.

*Thereafter applications of
supermolecules to
nanotechnology are
introduced with many
examples of molecular
devices. The last part of*

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*the book describes
biological supermolecules
and their mimics. Though
simply explained
undergraduate and graduate
students in Chemistry will
be able to use aspects of*

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*this work as an advanced
textbook.*

Organic Chemistry, 9e

Part B: Reactions and

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*The Elements Beyond
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The 'Red Book' is the definitive
guide for scientists requiring
internationally approved

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inorganic nomenclature in a legal or regulatory environment.

This is a handy textbook comprised of chapters introducing the fundamentals of chalcogen chemistry with a focus on chalcogens and selected

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derived compounds and/or materials with illustrative practical applications. These low-valent chemistry elements of Group 16 or group VI- in the modern periodic table include oxygen (O), sulfur (S), selenium

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(Se), tellurium (Te), and polonium (Po), and they exhibit extremely interesting properties. They are endowed with supramolecular and structure bonding reactivities that allow them to form a variety of new

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compounds with sophisticated characteristics, thus making their way into a new era of materials development. It is hoped that readers of this textbook with a general background knowledge in chemistry, biogeochemistry,

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biochemistry, biology, food, agriculture, and also medicine, as well as pharmacy, will find the chapters enriching in new knowledge. An introductory chapter orients readership in this particular field of chemistry with

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a summative focus on the multidisciplinary approach employed in the compilation of the chapters. As such, the text is suitable for scientists, technologists, students, as well as those whose major interest is

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chalcogen chemistry, with particular interests in the chalcogen compounds and materials.

Organic Chemistry, Ninth Edition gives students a contemporary overview of organic principles

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and the tools for organizing and understanding reaction mechanisms and synthetic organic chemistry with unparalleled and highly refined pedagogy. This text presents key principles of organic chemistry in

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the context of fundamental reasoning and problem solving. Authored to complement how students use a textbook today, new Problem-Solving Strategies, Partially Solved Problems, Visual Reaction Guides and Reaction

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Starbursts encourage students to use the text before class as a primary introduction to organic chemistry as well as a comprehensive study tool for working problems and/or preparing for exams.

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Industrial applications of Metal complexes have gained significant importance especially in the area of Catalysis in the last three decades. Scope for further development of such applications is extensive as

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several biological processes in living cells involve metal complexes. Coordination Chemistry is a subject uniquely involving application of Quantum Mechanics, Spectroscopy, Kinetics, Catalysis, Biology and

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Industrial Chemistry. This book has been written keeping these important aspects of the subject in mind.

IUPAC Recommendations 2005
Symmetry and Spectroscopy of
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Modern Physical Organic
Chemistry

Advanced Inorganic Chemistry

An Introduction to Their
Electronic Structure and
Properties

Here is a fascinating

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***reader-friendly
exploration of “the
phosphorus enigma.” The
volume attempts to
answer the questions:
How did phosphorus
atoms, which are***

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***produced inside the inner
cores of a handful of huge
stars, become
concentrated in relatively
high proportions in the
organisms composing
Earth's biosphere? And***

how did these phosphate derivatives manage to be included in such a great variety of organic molecules playing essential biochemical roles in all known life

forms? Due to the interdisciplinary nature of the topic, the volume is arranged in three sections. The first section introduces the fundamental concepts

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***and notions of physics,
chemistry, and biology
necessary for the proper
understanding of the
topics discussed within an
astronomical framework.
The author then focuses***

***on the role of phosphorus
and its compounds within
the context of chemical
evolution in galaxies,
considering its relevance
in most essential
biochemical functions as***

***well as its peculiar
chemistry under different
physicochemical
conditions. The third
section provides an
overall perspective on the
role of phosphorus and its***

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***compounds in current
areas of research of solid
state physics, materials
engineering,
nanotechnology or
medicine.***

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***quick reference to
chemistry has been
updated and expanded in
this new edition. With
updated content and an
additional panel of
information, this popular***

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***guide is not only an
essential companion for
students in introductory
chemistry courses but
also a must-have
refresher for students in
higher-level courses.***

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Author Mark D. Jackson, PhD, a scientist and university chemistry professor, has a gift for making the complicated subject of chemistry interesting and easy to

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***understand--without the
fluff. In this new edition,
you will find more
coverage of the subject,
helpful illustrations,
chemical problems, and
practical applications,***

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***making this a study tool
you won't want to be
without.***

***This Highly Readable
Text Provides The
Essentials Of Inorganic
Chemistry At A Level That***

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***Is Neither Too High (For
Novice Students) Nor Too
Low (For Advanced
Students). It Has Been
Praised For Its Coverage
Of Theoretical Inorganic
Chemistry. It Discusses***

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***Molecular Symmetry
Earlier Than Other Texts
And Builds On This
Foundation In Later
Chapters. Plenty Of
Supporting Book
References Encourage***

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***Instructors And Students
To Further Explore Topics
Of Interest.***

***In addition to covering
thoroughly the core areas
of physical organic
chemistry -structure and***

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***mechanism - this book
will escort the
practitioner of organic
chemistry into a field that
has been
thoroughly updated.
Descriptive Inorganic***

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Chemistry

Advanced Textbook

Advanced Structural

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Preparation, Structure,

and Synthetic

Applications of Polyvalent

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Iodine Compounds

Hypervalent Iodine Chemistry is the first comprehensive text covering all of the main aspects of the chemistry of organic and inorganic polyvalent iodine compounds,

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including applications in chemical research, medicine, and industry. Providing a comprehensive overview of the preparation, properties, and synthetic applications of this important class of reagents, the text

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is presented in the following way:
The introductory chapter provides a historical background and describes the general classification of iodine compounds, nomenclature, hypervalent bonding, structural features, and the

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principles of reactivity of polyvalent iodine compounds. Chapter 2 gives a detailed description of the preparative methods and structural features of all known classes of organic and inorganic derivatives of

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polyvalent iodine. Chapter 3, the key chapter of the book, deals with the many applications of hypervalent iodine reagents in organic synthesis. Chapter 4 describes the most recent achievements in hypervalent iodine

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catalysis. Chapter 5 deals with recyclable polymer-supported and nonpolymeric hypervalent iodine reagents. Chapter 6 covers the "green" reactions of hypervalent iodine reagents under solvent-free conditions or in aqueous solutions.

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The final chapter provides an overview of the important practical applications of polyvalent iodine compounds in medicine and industry. This book is aimed at all chemists interested in iodine compounds, including

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academic and industrial researchers in inorganic, organic, physical, medicinal, and biological chemistry. It will be particularly useful to synthetic organic and inorganic chemists, including graduate and advanced

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undergraduate students. It comprehensively covers the green chemistry aspects of hypervalent iodine chemistry, making it especially useful for industrial chemists.

For more than a quarter century,

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Cotton and Wilkinson's Advanced Inorganic Chemistry has been the source that students and professional chemists have turned to for the background needed to understand current research literature in inorganic chemistry and

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aspects of organometallic chemistry. Like its predecessors, this updated Sixth Edition is organized around the periodic table of elements and provides a systematic treatment of the chemistry of all chemical elements

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and their compounds. It incorporates important recent developments with an emphasis on advances in the interpretation of structure, bonding, and reactivity." /p> From the reviews of the Fifth Edition: "The first place to

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go when seeking general information about the chemistry of a particular element, especially when up-to-date, authoritative information is desired." —Journal of the American Chemical Society "Every student with a serious interest in

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inorganic chemistry should have [this book]." —Journal of Chemical Education "A mine of information . . . an invaluable guide." —Nature "The standard by which all other inorganic chemistry books are judged." —Nouveau Journal de

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Chimie "A masterly overview of the chemistry of the elements." —The Times of London Higher Education Supplement "A bonanza of information on important results and developments which could otherwise easily be overlooked in

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the general deluge of publications."

—Angewandte Chemie

The first broad account offering a non-mathematical, unified treatment of solid state chemistry. Describes synthetic methods, X-ray diffraction, principles of inorganic

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crystal structures, crystal chemistry and bonding in solids; phase diagrams of 1, 2 and 3 component systems; the electrical, magnetic, and optical properties of solids; three groups of industrially important inorganic solids--glass,

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cement, and refractories; and certain aspects of organic solid state chemistry, including the "organic metal" of new materials. This book covers the synthesis, reactions, and properties of elements and inorganic compounds

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for courses in descriptive inorganic chemistry. It is suitable for the one-semester (ACS-recommended) course or as a supplement in general chemistry courses. Ideal for major and non-majors, the book incorporates rich graphs and

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diagrams to enhance the content and maximize learning. Includes expanded coverage of chemical bonding and enhanced treatment of Buckminster Fullerenes
Incorporates new industrial applications matched to key topics

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in the text

Principles of Inorganic Chemistry

Organic Reactions And Their
Mechanisms

Transition Metal Oxides

Mathematics for Physicists

Boron Hydride Chemistry

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[Main text] -- Solutions manual

This book is designed to be of use to the reader in two different ways. First, it is intended to provide a general introduction to all aspects of iron chemistry for readers from a variety of different

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scientific backgrounds. It has been written at a level suitable for use by graduates and advanced undergraduates in chemistry and biochemistry, and graduates in physics, geology, materials science, metallurgy and biology. It

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is not designed to be a dictionary of iron compounds but rather to provide each user with the necessary tools and background to pursue their ,individual interests in the wide areas that are influenced by the chemistry of

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iron. To achieve this goal each chapter has been written by a contemporary expert active in the subject so that the reader will benefit from their individual insight. Although it is generally assumed that the reader will have

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an understanding of bonding theories and general chemistry, the book is well referenced so that any deficiencies in the reader's background can be addressed. The book was also designed as a general reference book for initial

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pointers into a scientific literature that is growing steadily as the understanding and uses of this astonishingly versatile element continue to develop. To meet this aim the book attempts some coverage of all aspects of the

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chemistry of iron, not only outlining what understanding has been achieved to date but also identifying targets to be aimed at in the future.

This textbook presents an account of the chemistry of the elements

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for both undergraduate and postgraduate students. It covers not only the inorganic chemistry of the elements, but also analytical, theoretical, industrial, organometallic, bio-inorganic areas of chemistry which apply.

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The only introduction into the exciting chemistry of Lanthanides and Actinides. The book is based on a number of courses on "f elements" The author has a long experience in teaching this field of chemistry

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Lanthanides have become very common elements in research and technology applications; this book offers the basic knowledge. The book offers insights into a vast range of applications, from lasers to synthesis. The Inorganic

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Chemistry: A Textbook series reflects the pivotal role of modern inorganic and physical chemistry in a whole range of emerging areas, such as materials chemistry, green chemistry and bioinorganic chemistry, as well as

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providing a solid grounding in established areas such as solid state chemistry, coordination chemistry, main group chemistry and physical inorganic chemistry. Lanthanide and Actinide Chemistry is a one-volume

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account of the Lanthanides (including scandium and yttrium), the Actinides and the Transactinide elements, intended as an introductory treatment for undergraduate and postgraduate students. The principal features of

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these elements are set out in detail, enabling clear comparison and contrast with the Transition Elements and Main Group metals. The book covers the extraction of the elements from their ores and their purification, as well as the

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synthesis of the man-made elements; the properties of the elements and principal binary compounds; detailed accounts of their coordination chemistry and organometallic chemistry, from both preparative

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and structural viewpoints, with a clear explanation of the factors responsible for the adoption of particular coordination numbers; spectroscopy and magnetism, especially for the lanthanides, with case studies and accounts of

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applications in areas like magnetic resonance imaging, lasers and luminescence; nuclear separations and problems in waste disposal for the radioactive elements, particularly in the context of plutonium. Latest developments

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are covered in areas like the synthesis of the latest man-made elements, whilst there is a whole chapter on the application of lanthanide compounds in synthetic organic chemistry. End-of-chapter questions suitable for

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tutorial discussions are provided,
whilst there is a very
comprehensive
bibliography providing ready
access to further reading on all
topics.

Concise Coordination Chemistry

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Supramolecular Chemistry -
Fundamentals and Applications
Chemistry of Aluminium,
Gallium, Indium and Thallium
Heavy Metals In The
Environment
Chemistry of Iron

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*Boron Hydride Chemistry
covers the significant
contributions of boron
hydride research in the
subjects of bonding,*

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structure, and stereochemistry. This book contains 12 chapters that illustrate the merging of certain areas of boron hydride chemistry with other disciplines, such as organic,

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organometallic, and transition metal chemistry. After providing an overview of the general geometric, stereochemical, and dynamic stereochemical features of boron hydrides, this book

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goes on exploring the bonding theory and theoretical research on boron hydrides, with an emphasis on boron hydrides that have open polyhedral structures. These topics are

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*followed by discussions on
gas phase and solution
reactions of borane and
substituted boranes. A
chapter focuses on the
chemistry of cations
containing boron atoms*

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bonded to hydrogen. The remaining chapters examine the syntheses, structures, bonding, spectral properties, and chemistry of specific boron hydrides, including borazines, closo-boron

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*hydrides, carboranes,
icosahedral carboranes, and
close- and nido-
heteroboranes. Inorganic
chemists and researchers,
teachers, and undergraduate
inorganic chemistry students*

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*will find this book invaluable.
Aimed at senior
undergraduates and first-
year graduate students, this
book offers a principles-
based approach to inorganic
chemistry that, unlike other*

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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

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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

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*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*

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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

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*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*

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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-

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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

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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

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*engaging writing style;
worked examples throughout
the text; unanswered
problems in every chapter;
contains a generous use of
informative, colorful
illustrations*

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This textbook is a comprehensive introduction to the key disciplines of mathematics - linear algebra, calculus, and geometry - needed in the undergraduate physics

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curriculum. Its leitmotiv is that success in learning these subjects depends on a good balance between theory and practice. Reflecting this belief, mathematical foundations

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are explained in pedagogical depth, and computational methods are introduced from a physicist's perspective and in a timely manner. This original approach presents concepts and methods as

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*inseparable entities,
facilitating in-depth
understanding and making
even advanced mathematics
tangible. The book guides
the reader from high-school
level to advanced subjects*

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*such as tensor algebra,
complex functions, and
differential geometry. It
contains numerous worked
examples, info sections
providing context,
biographical boxes, several*

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detailed case studies, over 300 problems, and fully worked solutions for all odd-numbered problems. An online solutions manual for all even-numbered problems will be made available to

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Molecular Quantum

Mechanics

Inorganic Chemistry

The Chemical Evolution of

Phosphorus

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