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Chapter 14 Section 1 Answers

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20,000 MCQs - Objective General
Studies - Subjectwise Question

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Chapter 14 Section 1 Answers

Bank based on Previous Papers
for UPSC & State PSC Important
for - UTTAR PRADESH UPPSC
UPPCS, ANDHRA PRADESH
APPSC, ASSAM APSC, BIHAR
BPSC, CHHATISGARH CGPSC,
GUJARAT GPSC, HARYANA

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HPSC, HIMACHAL PRADESH
HPPSC, JHARKHAND JPSC,
KARNATAKA KPSC, KERALA
Kerala PSC, MADHYA
PRADESH MPPSC,
MAHARASHTRA MPSC,
ORISSA OPSC, PUNJAB PPSC,

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RAJASTHAN RPSC, TAMIL
NADU TNPSC, TELANGANA
TSPSC, UTTARAKHAND
UKPSC, WEST BENGAL
WBPSC Keywords: Objective
Economy, Polity, History,
Ecology, Geography Objective

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Indian Polity by Laxmikant,
General Studies Manual, Indian
Economy Ramesh Singh, GC
Leong, Old NCERT History,
GIST of NCERT,
Aniline is the parent molecule of a
vast family of aromatic amines.

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Since its discovery in 1826 it has become one of the hundred most important building blocks in chemistry. Aniline is used as an intermediate in many different fields of applications, such as isocyanates, rubber processing

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chemicals, dyes and pigments, agricultural chemicals and pharmaceuticals. The understanding of functional groups is key for the understanding of all organic chemistry. In the tradition of the

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Patai Series, this volume treats all aspects of this functional group. It contains chapters on the theoretical and computational foundations; on analytical and spectroscopical aspects with dedicated chapters on Mass

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Spectrometry, NMR, IR/UV, etc.;
on reaction mechanisms; on
applications in syntheses.

The Chemistry of Nitrogen
Pergamon Texts in Inorganic
Chemistry, Volume 14: The
Chemistry of Germanium, Tin,

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and Lead focuses on the properties, characteristics, transformations, and reactions of lead, germanium, and tin. The book focuses on germanium and compounds of Ge(I) and Ge(II). Discussions focus on

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germanium(II) compounds of
phosphorus and arsenic,
germanium(II) imide and nitride,
monohalides, analytical
determination, biological activity,
chemical behavior of germanium,
and production and industrial use

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of germanium. The text then elaborates on organogermanium compounds, complexes of germanium(IV), and tin. Topics include nuclear magnetic resonance, chemical properties of tin metal, isotopes of tin,

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occurrence and distribution of tin, and fluorogermanates and chlorogermanates. The manuscript takes a look at nuclear magnetic resonance, extraction, industrial and commercial utilization, toxicity, and chemical

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properties of metallic lead. The publication is a vital source of data for researchers interested in the chemistry of lead, germanium, and tin.

Atkins' Physical Chemistry
Pergamon International Library

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of Science, Technology,
Engineering and Social Studies
The Development of Modern
Chemistry
Tin and Lead
Organometallic Chemistry
A revised and updated English

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edition of a textbook based on teaching at the final year undergraduate and graduate level. It presents structure and bonding, generalizations of structural trends, crystallographic data, as well as highlights from the recent literature. The easy way to get a grip on

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inorganic chemistry Inorganic chemistry can be an intimidating subject, but it doesn't have to be! Whether you're currently enrolled in an inorganic chemistry class or you have a background in chemistry and want to expand your knowledge, Inorganic Chemistry

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For Dummies is the approachable, hands-on guide you can trust for fast, easy learning. Inorganic Chemistry For Dummies features a thorough introduction to the study of the synthesis and behavior of inorganic and organometallic compounds. In plain English, it

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explains the principles of inorganic chemistry and includes worked-out problems to enhance your understanding of the key theories and concepts of the field. Presents information in an effective and straightforward manner Covers topics you'll encounter in a typical

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inorganic chemistry course
Provides plain-English explanations
of complicated concepts If you're
pursuing a career as a nurse,
doctor, or engineer or a lifelong
learner looking to make sense of
this fascinating subject, Inorganic
Chemistry For Dummies is the

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quick and painless way to master inorganic chemistry.

Pergamon Texts in Organic Chemistry, Volume 9: The Chemistry of Silicon presents information essential in understanding the chemical properties of silicon. The book first

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covers the fundamental aspects of silicon, such as its nuclear, physical, and chemical properties. The text also details the history of silicon, its occurrence and distribution, and applications. Next, the selection enumerates the compounds and complexes of

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silicon, along with organosilicon compounds. The text will be of great interest to chemists and chemical engineers. Other researchers working on research study involving silicon will also benefit from the book.

From ancient Greek theory to the

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explosive discoveries of the 20th century, this authoritative history shows how major chemists, their discoveries, and political, economic, and social developments transformed chemistry into a modern science. 209 illustrations. 14 tables. Bibliographies. Indices.

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Appendices.

Handbook of Grignard Reagents

Section Reviews

Introduction to Modern Inorganic
Chemistry, 6th edition

The Chemistry of Anilines

Green Chemistry and Technologies

The Chemistry of

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Fluorine

This handbook provides the theoretical and practical information necessary to explore new applications for Grignard reagents on a

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day-to-day basis,
presenting a
comprehensive overview
of current research
activities in Grignard
chemistry. This book
surveys specific

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reactions and applications of Grignard reagents, organized by type of substrate and the general category of reaction. It also summarizes the spectrum

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of reactions exhibited
by Grignard reagents.
The Chemistry of the
Monatomic Gases presents
Chapters 5 and 6 from
the book Comprehensive
Inorganic Chemistry. The

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book deals with the
monatomic gases of Group
0 of the Periodic Table.

The discovery, origin,
and occurrence in
nature, both
terrestrially and

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universally, of monatomic gases are discussed. The text also provides the group's properties, highlighting their similarities and progressive change of

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properties with atomic weight. Chemists and students studying chemistry will find the book a good reference material.

The Chemistry of Carbon:

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Organometallic Chemistry
is a specialist's
selection of certain
chapters in
Comprehensive Inorganic
Chemistry comprising
five volumes. This book

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contains corrections and added prefatory material and individual indices.

This volume deals with carbon (Chapter 13) and describes organic chemistry of the

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metallic elements
(Chapter 14). Carbon is
unique in its ability to
form strong chemical
bonds with itself or
other elements. Graphite
and diamonds are some

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elementary forms of carbon. Chapter 14 discusses the basis for a qualitative, comparative description of the organic chemistry of metals and any

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inorganic chemistry
found common in them.
The book uses the
covalent model in
describing both bondings
made in most
organometallic compounds

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and inorganic derivatives. The text also discusses the atoms in molecules, particularly in a molecular ion, as having both ligands X and a

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central atom M. A table then shows the classification of some common ligands, grouping them according to the number of valence electrons that make up

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their bonding. The text then explains the general trends in the chemistry of the main group elements of the Periodic Table that contain ns and np

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orbitals in their
valence shells. The book
also discusses some
atomic properties, their
consequences, and the
occurrence of unpaired
electrons in organo

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transition metal
complexes. This book
will be valuable for
students and professors
dealing with general
chemistry, gemologists,
molecular scientists,

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and researchers.

The Chemistry of Silicon
Lab Experiments Modern
Chemistry

The Chemistry of the
Actinides

The Chemistry of

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Nitrogen

Fundamentals of

Environmental and

Toxicological Chemistry

Organic Chemistry, 3rd

Edition offers success in

organic chemistry requires

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mastery in two core aspects: fundamental concepts and the skills needed to apply those concepts and solve problems. Students must learn to become proficient

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at approaching new situations methodically, based on a repertoire of skills. These skills are vital for successful problem solving in organic chemistry. Existing

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textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems. Comprehensive mathematics

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foundation section. Work on formulae and equations, the mole, volumetric analysis and other key areas is included. Can be used as a course support book as well as for exam

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*practice. Best-selling,
experienced chemistry
author.*

*The Chemistry of the
Actinides contains
selected chapters from the
Comprehensive Inorganic*

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Chemistry to meet the needs of certain specialists in this field. The book describes the 14 elements after actinium in the Periodic Table, known as the actinide elements

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or the 5f transition series. The book notes the occurrence, separation, chemical properties, chemical structures, and preparation of the metals. In a discussion of

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analytical chemistry, the radioactive properties of the actinides and the lanthanides are compared. The text then describes the nuclear or radiochemical records and

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chemical properties of the different members of the actinide series such as thorium, uranium, plutonium, and einsteinium. The book also explains the differences

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between the 5f shell and the 4f shell. One paper then discusses the groups of alloy compounds, including rare earths and intra-actinides. Another paper examines the general

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properties of actinide ions as to their electronic structure and oxidation states; the stability and preparation of the different oxidation states; and the

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applicability of solvent extraction in separating and purifying various substances. The text is suitable for researchers in organic chemistry, nuclear and atomic

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*physicists, scientists,
and academicians whose
work involves radioactive
materials.*

*Intrigued as much by its
complex nature as by its
outsider status in*

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traditional organic chemistry, the editors of The Organic Chemistry of Sugars compile a groundbreaking resource in carbohydrate chemistry that illustrates the ease

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*at which sugars can be
manipulated in a variety
of organic reactions. Each
chapter contains numerous
examples demonst*

*Modern Electrochemistry 2B
Comprehensive Inorganic*

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***Chemistry
Emerging Trends in
Analytical Techniques
Physical Chemistry of
Macromolecules
Sustainable Science,
Fourth Edition***

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In addition to covering
thoroughly the core
areas of physical
organic chemistry
-structure and mechanism
- this book will escort
the practitioner of

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organic chemistry into a field that has been thoroughly updated.

Fundamentals of
Environmental and
Toxicological Chemistry:
Sustainable Science,

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**Fourth Edition covers
university-level
environmental chemistry,
with toxicological
chemistry integrated
throughout the book.
This new edition of a**

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bestseller provides an updated text with an increased emphasis on sustainability and green chemistry. It is organized based on the five spheres of Earth's

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environment: (1) the hydrosphere (water), (2) the atmosphere (air), (3) the geosphere (solid Earth), (4) the biosphere (life), and (5) the anthrosphere

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(the part of the environment made and used by humans). The first chapter defines environmental chemistry and each of the five environmental spheres.

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The second chapter presents the basics of toxicological chemistry and its relationship to environmental chemistry. Subsequent chapters are grouped by sphere,

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beginning with the
hydrosphere and its
environmental chemistry,
water pollution,
sustainability, and
water as nature's most
renewable resource.

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Chapters then describe the atmosphere, its structure and importance for protecting life on Earth, air pollutants, and the sustainability of atmospheric quality.

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The author explains the nature of the geosphere and discusses soil for growing food as well as geosphere sustainability. He also describes the biosphere

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and its sustainability.
The final sphere
described is the
anthrosphere. The text
explains human influence
on the environment,
including climate,

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pollution in and by the
anthrosphere, and means
of sustaining this
sphere. It also
discusses renewable,
nonpolluting energy and
introduces workplace

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monitoring. For readers needing additional basic chemistry background, the book includes two chapters on general chemistry and organic chemistry. This updated

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edition includes three new chapters, new examples and figures, and many new homework problems.

If you think you know the Brown, LeMay Bursten

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Chemistry text, think again. In response to market request, we have created the third Australian edition of the US bestseller, Chemistry: The Central

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**Science. An extensive
revision has taken this
text to new heights!
Triple checked for
scientific accuracy and
consistency, this
edition is a more**

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seamless and cohesive product, yet retains the clarity, innovative pedagogy, functional problem-solving and visuals of the previous version. All artwork and

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images are now
consistent in quality
across the entire text.
And with a more
traditional and logical
organisation of the
Organic Chemistry

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content, this
comprehensive text is
the source of all the
information and practice
problems students are
likely to need for
conceptual

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understanding,
development of problem
solving skills,
reference and test
preparation.

Discusses the formation,
composition, properties

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and processing of the
principal fossil and
biofuels, ideal for
graduate students and
professionals.

Modern Science

Chemistry of Fossil

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Fuels and Biofuels
Electrodics in
Chemistry, Engineering,
Biology and
Environmental Science
Advanced Structural
Inorganic Chemistry

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The Chemistry of the Lanthanides

Retaining the concise, to-the-point presentation that has already helped thousands of students move beyond memorization to a true understanding of the beauty and

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logic of organic chemistry, this Seventh Edition of John McMurry's FUNDAMENTALS OF ORGANIC CHEMISTRY brings in new, focused content that shows students how organic chemistry applies to their everyday lives. In

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addition, redrawn chemical structures and artwork help students visualize important chemical concepts, a greater emphasis on biologically-related chemistry (including new problems) helps them grasp the

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enormous importance of organic chemistry in understanding the reactions that occur in living organisms, and new End of Chapter problems keyed to OWL allow them to work text-specific problems online. Lastly, , for this

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edition, John McMurry reevaluated and revised his writing at the sentence level to ensure that the book's explanations, applications, and examples are more student-friendly, relevant, and motivating than ever before. Important Notice:

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This major revision of the world's leading textbook of physical chemistry has maintained its

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tradition of accessibility but authority and has brought it thoroughly up to date. The new author team has introduced many innovations. There are new or rewritten chapters on the solid state, on molecular interactions,

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macromolecules, and electron transfer. Almost every chapter has at least one Box showing the relevance of the material to modern chemistry. All the chapters now conclude with a check list which includes definitions and key

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equations. The authors have paid special attention to the presentation of mathematical derivations and to the physical interpretation of equations. They have also ensured that the text is highly modular, so that it can be used in different

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sequences, either atoms first or thermodynamics first. The art program has been redrawn and extended, new Discussion questions have been added, and the Further Information sections have been recast to provide the necessary

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background in mathematics and physics. The text is fully geared to the web, with full media support.

SUPPLEMENTS AND SUPPORT

MATERIAL: 1. Web site featuring Living Graphs (about 150).

Dynamic, interactive graphs that

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allow experimentation and hands-on learning. Web links to sources of data and other information, as referred to in the book. 2. Student's Solutions Manual containing worked solutions to half the end of chapter exercises and problems in

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the parent text. 3. Instructor's Solutions Manual, FREE to adopters of the parent text, containing worked solutions to the other half of the end of chapter exercises and problems in the parent text. Contains a CD-ROM

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with all the illustrations from the text, for use in presentations. 4. MathCad/Mathematica supplement book with CD-ROM to take all living graphs further. NEW TO THIS EDITION: DT New co-author Julio de Paula, a

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biophysical chemist, strengthens the text's coverage of biological applications. DT Margin notes provide help with mathematics just where it is needed. DT Boxes added to every chapter to cover biological

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applications, environmental, materials science and chemical engineering. Each box has two problems, and suggestions for further reading. DT Important equations and definitions added to the 'key concepts' section of every

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chapter. DT Microprojects used to be separate sections at end of every Part. These (most of them) have been integrated into the appropriate chapter's end-of-chapter exercises. DT More help with the mathematical development of

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derivations: marginal notes are provided, many derivations now include more steps (justifications), the section on mathematical techniques in Further Information sections has been rewritten, as has the Further Information section on

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concepts of physics. DT Fully integrated media support. The new feature of Living Graphs are flagged by an icon in the textbook, and marginal notes refer the reader to the weblinks to be found on the book's free web site. DT The

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chapters are modular so that they may be read in different orders for different courses. Road Maps are provided that suggest different routes through the text for the following types of course organizations: (a) thermodynamics

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first, (b) atoms first (quantum mechanics first). DT There is a separate section in of end-of-chapter exercises specifically for applications. DT End-of-chapter problems for which solutions are provided in the Student's Solutions

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Manual are now indicated by colour. MODERNIZATION DT
More coverage of modern topics throughout the text. Some examples, by section of the book:
PART 1: Illustrations of partial derivatives added Added Boxes,

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more practical and more biological applications PART 2: Chapter 14 includes computational chemistry Enhancements to quantum mechanics coverage: addition of materials science in Chapters 22 and 23 More modern spectroscopy,

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more computational chemistry
Chapter 21: new chapter on
molecular interactions Chapter 22
on macromolecules emphasizes
polymers and biological polymers
PART 3: Organized to make
selective use easier (made more

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modular) Chapter 29: more modern treatment of electron transfer theory in solutions, biological systems, and solid state For a complete list of changes to the book since the last edition, see the web site at www.oup.com/pchem7

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Long considered the standard for honors and high-level mainstream general chemistry courses, PRINCIPLES OF MODERN CHEMISTRY continues to set the standard as the most modern, rigorous, and chemically and

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mathematically accurate text on the market. This authoritative text features an "atoms first" approach and thoroughly revised chapters on Quantum Mechanics and Molecular Structure (Chapter 6), Electrochemistry (Chapter 17), and

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Molecular Spectroscopy and Photochemistry (Chapter 20). In addition, the text utilizes mathematically accurate and artistic atomic and molecular orbital art, and is student friendly without compromising its rigor.

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End-of-chapter study aids focus on only the most important key objectives, equations and concepts, making it easier for students to locate chapter content, while applications to a wide range of disciplines, such as biology,

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This popular and comprehensive textbook provides all the basic

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information on inorganic chemistry that undergraduates need to know. For this sixth edition, the contents have undergone a complete revision to reflect progress in areas of research, new and modified techniques and their applications,

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and use of software packages. Introduction to Modern Inorganic Chemistry begins by explaining the electronic structure and properties of atoms, then describes the principles of bonding in diatomic and polyatomic covalent molecules,

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the solid state, and solution chemistry. Further on in the book, the general properties of the periodic table are studied along with specific elements and groups such as hydrogen, the 's' elements, the lanthanides, the actinides, the

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transition metals, and the "p" block. Simple and advanced examples are mixed throughout to increase the depth of students' understanding. This edition has a completely new layout including revised artwork, case study boxes,

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technical notes, and examples. All of the problems have been revised and extended and include notes to assist with approaches and solutions. It is an excellent tool to help students see how inorganic chemistry applies to medicine, the

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environment, and biological topics.
Smartphone-Based Detection
Devices
Pergamon Texts in Inorganic
Chemistry
Basic Principles and Issues
20,000 MCQs - General Studies -

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Subjectwise Question Bank based
on Previous Papers for UPSC &
State PSC

Supramolecular Chemistry in
Corrosion and Biofouling
Protection

The first concern of scientists

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who are interested in synthetic polymers has always been, and still is: How are they synthesized? But right after this comes the question: What have I made, and for what is it good? This leads to the important topic

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of the structure-property relations to which this book is devoted. Polymers are very large and very complicated systems; their characterization has to begin with the chemical composition, configuration, and

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con formation of the individual molecule. The first chapter is devoted to this broad objective. The immediate physical consequences, discussed in the second chapter, form the basis for the physical nature of

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polymers: the supermolecular interactions and arrangements of the individual macromolecules. The third chapter deals with the important question: How are these chemical and physical

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structures experimentally determined? The existing methods for polymer characterization are enumerated and discussed in this chapter. The following chapters go into more detail.

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For most applications-textiles, films, molded or extruded objects of all kinds-the mechanical and the thermal behaviors of polymers are of preponderant importance, followed by optical and electric

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properties. Chapters 4 through 9 describe how such properties are rooted in and dependent on the chemical structure. More-detailed considerations are given to certain particularly important and critical properties

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such as the solubility and permeability of polymeric systems. Macromolecules are not always the final goal of the chemist-they may act as intermediates, reactants, or catalysts. This topic is

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presented in Chapters 10 and 11.

Pergamon Texts in Inorganic Chemistry, Volume 3: The Chemistry of Phosphorus focuses on the physical and chemical properties of

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phosphorus. This book discusses phosphorus compounds, such as phosphorus hydrides and phosphonium compounds; phosphorus halides and phosphorus pseudohalides; thiophosphoryl halides and

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thiophosphoryl pseudohalides;
phosphorus oxides; and
phosphorus-nitrogen
compounds. The
pyrophosphates,
tripolyphosphates,
polyphosphates, cyclic

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metaphosphates, and ultraphosphates are also covered in this text. This publication is intended for chemical engineering students and chemists researching on the characteristics of

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phosphorus.

Inorganic Chemistry, Volume 26: The Chemistry of the Lanthanides provides information pertinent to the fundamental aspects of the chemistry of lanthanides. This

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book discusses the electronic configurations and the consequences thereof of lanthanides. Organized into four chapters, this volume begins with an overview of the characterized state of oxidation

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of all the lanthanides both in solid compounds and in solutions in water and other solvents. This text then presents the data indicating an overall decrease from lanthanum to lutetium even though there is

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the expected increase in the sizes of atoms and derived trivalent ions in Group IIIA elements. Other chapters consider the differences between the lanthanide elements and the d-transition.

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This book discusses as well the types of lanthanide complexes. The final chapter deals with the estimated absolute abundances of the lanthanides in the cosmos as well as in the crust. This book is a valuable resource for

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inorganic chemists.

Integrating coverage of polymers and biological macromolecules into a single text, Physical Chemistry of Macromolecules is carefully structured to provide a clear

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and consistent resource for beginners and professionals alike. The basic knowledge of both biophysical and physical polymer chemistry is covered, along with important terms, basic structural properties and

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relationships. This book includes end of chapter problems and references, and also: Enables users to improve basic knowledge of biophysical chemistry and physical polymer chemistry. Explores fully the

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principles of macromolecular chemistry, methods for determining molecular weight and configuration of molecules, the structure of macromolecules, and their separations.

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Holt McDougal Modern
Chemistry

The Chemistry of Oxygen
Modern Inorganic Synthetic
Chemistry

Inorganic Chemistry For
Dummies

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The Chemistry of Germanium

Smartphone usage has created a new means for detection, analysis, diagnosis and monitoring through the use of new apps and attachments. These breakthrough analytical methods offer ways to overcome the drawbacks of more conventional methods, such as the

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expensive instrumentation that is often needed, complex sample pre-treatment steps, or time-consuming procedures. Smartphone-Based Detection Devices: Emerging Trends in Analytical Techniques gathers these modern developments in smartphone analytical methods into one comprehensive source,

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covering recent advancements in analytical tools while paying special attention to the most accurate, highly efficient approaches. Serving as a guide not only to analytical chemists but also to environmentalists, biotechnologists, pharmacists, forensic scientists and toxicologists, Smartphone-Based

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Detection Devices: Emerging Trends in Analytical Techniques is an important source for researchers who require accurate analysis of their on- and off-site samples. Students in these fields at the graduate and post-graduate level will also benefit from this topical and comprehensive book. Provides an

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integrated approach for advanced analytical methods and techniques using smartphones Covers the usage of smartphones in sample prep, integration and detection stages of analytical chemistry Applicable for researchers of all levels, from graduate students to professionals

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Supramolecular chemistry, "the chemistry beyond the molecule", is a fascinating realm of modern science. The design of novel supramolecular structures, surfaces, and techniques are at the forefront of research in different application areas, including corrosion and biofouling protection. A team of international experts

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provide a comprehensive view of the applications and potential of supramolecular chemistry in corrosion and biofouling prevention. Chapter topics include types and fundamentals of supramolecules, supramolecular polymers and gels, host-guest inclusion compounds, organic-inorganic hybrid materials,

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metallo-assemblies, cyclodextrins, crown ethers, mesoporous silica and supramolecular structures of graphene and other advances. Additional Features include: Focuses on different aspects of supramolecular chemistry in corrosion and biofouling prevention. Comprehensively covers supramolecular interactions that

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can provide better corrosion and biofouling protection. Provides the latest developments in self-healing coatings. Explores recent research advancements in the suggested area. Includes case studies specific to industries. The different supramolecular approaches being investigated to control corrosion and

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biofouling are gathered in one well-organized reference to serve senior undergraduate and graduate students, research students, engineers, and researchers in the fields of corrosion science & engineering, biofouling, and protective coatings.

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The book gives a systematic introduction to green chemistry principles and technologies in inorganic and organic chemistry, polymer sciences and pharmaceutical industry. It also discusses the use of biomass and marine resources for synthesis as well as renewable energy utilization and the concepts and evaluation

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The Chemistry of Phosphorus

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updated version of the classic text (Plenum Press, 1970) explains the subject of electrochemistry in clear, straightforward language for undergraduates and mature scientists who want to

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understand solutions. Like its predecessor, the new text presents the electrochemistry of solutions at the molecular level. The Second Edition takes full advantage of the advances in microscopy, computing power,

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and industrial applications in the quarter century since the publication of the First Edition. Such new techniques include scanning-tunneling microscopy, which enables us to see atoms on electrodes; and new

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computers capable of molecular dynamics calculations that are used in arriving at experimental values. Chapter 10 starts with a detailed description of what happens when light strikes semiconductor electrodes and splits

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water, thus providing in hydrogen a clean fuel. There have of course been revolutionary advances here since the First Edition was written. The book also discusses electrochemical methods that may provide the

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most economical path to many new syntheses - for example, the synthesis of the textile, nylon. The broad area of the breakdown of material in moist air, and its electrochemistry is taken up in the substantial

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Chapter 12. Another exciting topic covered is the evolution of energy conversion and storage which lie at the cutting edge of clean automobile development. Chapter 14 presents from a fresh perspective a discussion of

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the latest advancements in

inorganic synthetic chemistry,

providing materials chemists,

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chemical engineers, and materials scientists with a valuable reference source to help them advance their research efforts and achieve breakthroughs. Section one includes six chapters centering

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on synthetic chemistry under specific conditions, such as high-temperature, low-temperature and cryogenic, hydrothermal and solvothermal, high-pressure, photochemical and fusion conditions. Section two focuses

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on the synthesis and related chemistry problems of highly distinct categories of inorganic compounds, including superheavy elements, coordination compounds and coordination polymers, cluster

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compounds, organometallic compounds, inorganic polymers, and nonstoichiometric compounds. Section three elaborates on the synthetic chemistry of five important classes of inorganic functional

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materials, namely, ordered porous materials, carbon materials, advanced ceramic materials, host-guest materials, and hierarchically structured materials. Section four consists of four chapters where the

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synthesis of functional inorganic aggregates is discussed, giving special attention to the growth of single crystals, assembly of nanomaterials, and preparation of amorphous materials and membranes. The new edition's

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biggest highlight is Section five where the frontier in inorganic synthetic chemistry is reviewed by focusing on biomimetic synthesis and rationally designed synthesis. Focuses on the chemistry of inorganic synthesis,

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assembly, and organization of
wide-ranging inorganic systems
Covers all major methodologies
of inorganic synthesis Provides
state-of-the-art synthetic
methods Includes real examples
in the organization of complex

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inorganic functional materials
Contains more than 4000
references that are all highly
reflective of the latest
advancement in inorganic
synthetic chemistry Presents a
comprehensive coverage of the

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key issues involved in modern inorganic synthetic chemistry as written by experts in the field

The Chemistry of Oxygen deals with the chemistry of oxygen and covers topics ranging from atoms and ions to oxides, water, and

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oxygen fluorides. Hydrogen peroxide, peroxides and related compounds, and ozone and related species are also discussed, along with other species containing O₃ and O₄ groups. This book is comprised

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of nine chapters and opens with a historical background on oxygen, including its discovery, as well as its properties, isotopes, occurrence and extraction, toxic effects, and production and uses. The next

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chapter is devoted to oxygen atoms and ions, with emphasis on the reactions of ionized species derived from oxygen atoms and molecules. The reader is then introduced to oxides and their acid-base

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character, structure, allotropy,
thermodynamics, and
geometrical effects; physical and
chemical properties of water;
chemical and physical properties
of oxygen fluorides; and
hydrogen peroxide, its

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properties, molecular structure, and uses. Subsequent chapters focus on peroxides and related compounds; ozone and related species; and other species containing O₃ and O₄ groups. This monograph will be a

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valuable source of information
for inorganic chemists.

Fundamentals of Organic
Chemistry

Organic Chemistry, Loose-Leaf
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The Organic Chemistry of
Sugars
Structure—Property
Relationships in Polymers