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Solutions Manual
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Solutions
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The first book to aid in
the understanding of
multiconfigurational
quantum chemistry,

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**Multiconfigurational
Quantum Chemistry**
demystifies a subject
that has historically been
considered difficult to
learn. Accessible to any
reader with a
background in quantum
mechanics and quantum
chemistry, the book
contains illustrative
examples showing how
these methods can be
used in various areas of

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chemistry, such as chemical reactions in ground and excited states, transition metal and other heavy element systems. The authors detail the drawbacks and limitations of DFT and coupled-cluster based methods and offer alternative, wavefunction-based methods more suitable for smaller molecules.

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Chemistry³ establishes
the fundamental
principles of all three
strands of chemistry;

organic, inorganic and
physical. Using carefully-
worded explanations,
annotated diagrams and
worked examples, it
builds on what students
have learned at school to
present an approachable
introduction to
chemistry and its

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relevance to everyday
life.

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"Catherine E. Manual

Housecroft and Alan G.

Sharpe" This book has

established itself as a

leading textbook in the

subject by offering a

fresh and exciting

approach to the teaching

of modern inorganic

chemistry. It gives a

clear introduction to key

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principles with strong coverage of descriptive chemistry of the

elements. Special

selected topics chapters

are included, covering

inorganic kinetics and

mechanism, catalysis,

solid state chemistry and

bioinorganic chemistry.

A new full-colour text

design and three-

dimensional illustrations

bring inorganic

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chemistry to life. Topic boxes have been used extensively throughout the book to relate the chemistry described in the text to everyday life, the chemical industry, environmental issues and legislation, and natural resources.

Teaching aids throughout the text have been carefully designed to help students learn

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effectively. The many worked examples take students through each calculation or exercise step by step, and are followed by related self-study exercises tackling similar problems with answers to help develop their confidence. In addition, end-of-chapter problems reinforce learning and develop subject knowledge and

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skills. Definitions boxes and end-of-chapter checklists provide excellent revision aids, while further reading suggestions, from topical articles to recent literature papers, will encourage students to explore topics in more depth. New to this edition Many more self-study exercises have been introduced

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throughout the book with the aim of making stronger connections between descriptive chemistry and underlying principles. Additional 'overview problems' have been added to the end-of-chapter problem sets. The descriptive chemistry has been updated, with many new results from the

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literature being
included. Chapter 4

Bonding in polyatomic

molecules, has been

rewritten with greater

emphasis on the use of

group theory for the

derivation of ligand

group orbitals and

orbital symmetry labels.

There is more coverage

of supercritical fluids

and 'green' chemistry.

The new full-colour text

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design enhances the presentation of the many molecular structures and 3-D images. Supporting this edition Companion website featuring multiple-choice questions and rotatable 3-D molecular structures, available at "www.reasoned.co.uk/housecroft," For full information, including details of lecturer

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material, see the
Contents list inside the

book. A Solutions

Manual, written by

Catherine E.

Housecroft, with

detailed solutions to all

end-of-chapter problems

within the text is

available for purchase

separately ISBN 0131

39926 8. "Catherine E.

Housecroft" is Professor

of Chemistry at the

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University of Basel,
Switzerland. She is the
author of a number of

textbooks and has

extensive teaching

experience in the UK,

Switzerland, South

Africa and the USA.

"Alan G. Sharpe" is a

Fellow of Jesus College,

University of

Cambridge, UK and has

had many years of

experience teaching

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inorganic chemistry to
undergraduates

IUPAC

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Introducing Inorganic,
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Principles of Chemical
Nomenclature

What We Thought

Then... What We Know
Now

Inorganic Chemistry,

[ECH Master]

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For B.Sc. Part I, II & III
Classes of all Indian
Universities and also
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Authenticate, simple, to
the point and modern
account of each and
every topic. Relevant,
Clear, well labelled
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understand treatment of
most difficult and
intricate topic.

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Questions from
university papers of
various Indian

Universities

The ideal course

companion, Elements of
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written specifically with
the needs of

undergraduate students
in mind, and provides
extensive mathematical
and pedagogical
support while remaining

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concise and accessible.

For the seventh edition

of this much-loved text,

the material has been

reorganized into short

Topics, which are

grouped into thematic

Focuses to make the text

more digestible for

students, and more

flexible for lecturers to

teach from. At the

beginning of each

Topic, three questions

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are posed, emphasizing why it is important, what the key idea is, and what the student should already know.

Throughout the text, equations are clearly labeled and annotated, and detailed 'justification' boxes are provided to help students understand the crucial mathematics which underpins

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Handcraft

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physical chemistry.

Furthermore, Chemist's

toolkits provide succinct

reminders of key

mathematical

techniques exactly

where they are needed

in the text. Frequent

worked examples, in

addition to self-test

questions and end-of-

chapter exercises, help

students to gain

confidence and

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experience in solving problems. This diverse suite of pedagogical features, alongside an appealing design and layout, make Elements of Physical Chemistry the ideal course text for those studying this core branch of chemistry for the first time.

This book covers the synthesis, reactions, and properties of elements

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and inorganic
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compounds 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 diagrams to

enhance the content and

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maximize learning.

Includes expanded

coverage of chemical

bonding and enhanced

treatment of

Buckminster Fullerenes

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industrial applications

matched to key topics in

the text

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Fields

Highly Efficient OLEDs

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Inorganic Reactions

The Heavier D-block
Metals

***The essential
resource that offers
a comprehensive
understanding of
OLED optimizations
Highly Efficient
OLEDs. Materials
Based on Thermally
Activated Delayed
Fluorescence***

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*(TADF) offers
substantial*

*information on the
working principle of
OLEDs and on new
types of emitting
materials (organic
and inorganic). As
the authors explain,
OLEDs that use the
Singlet-Harvesting
mechanism based
on the molecular
property of TADF*

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work according to a new exciton harvesting principle. Thus, low-cost emitter materials, such as Cu(I) or Ag(I) complexes as well as metal-free organic molecules, have the potential to replace high-cost rare metal complexes being currently applied in

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***OLED technology.
With contributions
from an***

international panel

***of experts on the
topic, the text shows
how the application
of new TADF
materials allow for
the development of
efficient OLED
displays and
lighting systems.
This new***

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mechanism is the gateway to the third-generation of luminescent

materials. This

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Offers a state-of-the-

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the latest results in

the dynamically

developing field of

OLED materials Is

edited by a pioneer

in the field of OLED

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material technology

Contains a detailed

application-oriented

guide to new low-

cost materials for

displays and

lighting Puts the

focus on the

emerging fields of

OLED technology

Written for materials

scientists, solid

state chemists, solid

state physicists, and

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Chemistry

*electronics
engineers, Highly
Efficient OLEDs.*

*Materials Based on
Thermally Activated
Delayed*

*Fluorescence offers
a comprehensive
resource to the
latest advances of
OLEDs based on
new TADF materials.
Bishop's text shows
students how to*

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Herzberg's Manual

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break the material of preparatory chemistry down and master it. The system of objectives tells the students exactly what they must learn in each chapter and where to find it.

This book addresses the chemistry of the second and third

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row d-block metals, assuming a knowledge of the chemistry of the first row metals. Chapter 1 looks at the metals and summarizes occurrence, physical properties and uses. Chapter 2 considers periodic trends in properties. Chapter 3 considers aqueous solution

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chemistry, species present (with comparisons of the first row metal ions) and redox

properties. Chapter 4 surveys structure: the range of coordination numbers shown by second and third row metals is often a topic for discussion in University

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**courses. Chapter 5
looks at electronic
spectra and**

**magnetic properties,
making**

**comparisons with
the first row the
main objective of
the chapter. Detailed
mathematical
treatments are not
given. Chapter 6
considers metal-
metal bonding, and**

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Substituted

the classes of compound that contain triple and quadruple bonds; the role of bridging ligands is introduced. Chapter 7 looks at selected clusters with a pi donar ligands (e.g. metal halo species) in which metal-metal bonding is important. Chapter 8

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***introduces the area
of
polyoxometallates,
closing with a short
discussion of the
wide range of
applications. The
book contains many
references to
encourage wider
reading by the
student; in addition
to textbooks of
relevance, the***

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author has included many recent literature citations, and a section called "Metals in Action" which gives citations which show the heavier metals at work in, for example, catalytic converters and molecular wires."

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An Introduction to
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Physical Chemistry
of Ionic Materials
A

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comprehensive
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to inorganic
chemistry and,
specifically,

the science of
metal-based

drugs,
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describes the

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basics of
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chemistry,
including
organometallic
chemistry and
radiochemistry
, from a
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perspective.
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pharmacy and
pharmacology,
pharmaceutical
sciences,

medicinal

chemistry and

other health-

care related

subjects, this

accessible

text

introduces

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chemical
principles
with relevant
pharmaceutical
examples
rather than as
stand-alone
concepts,
allowing
students to
see the
relevance of

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this subject
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for their

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future

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exercises and

case studies.

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complete and

undiluted

knowledge on

making

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inorganic
polymers
functional
This

comprehensive
book reflects
the state of
the art in the
field of
inorganic
polymers,
based on

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research

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conducted by a

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number of inte

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leading

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groups working

in this area.

It covers the

synthesis

aspects of

synthetic

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inorganic
polymers and

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looks at
multiple

inorganic

monomers as

building

blocks, which

exhibit

unprecedented

electronic,

redox, photo-

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emissive,
magnetic, self-
healing and
catalytic

properties. It
also looks at
the

applications
of inorganic
polymers in
areas such as
optoelectronic

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s, energy storage, industrial chemistry, and biology.

Beginning with an overview of the use of smart inorganic polymers in daily life,

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Inorganic
Polymers:
Synthesis,
Properties and
Emerging
Applications
in Materials
and Life
Sciences goes
on to study
the synthesis,

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properties,
and
applications
of polymers
incorporating
different
heteroelements
such as boron,
phosphorus,
silicon,
germanium, and
tin. The book

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also examines

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polymers in fl

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ame-

retardants, as

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materials, and

in biology.

-An excellent

addition to

the polymer

scientists'

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and synthetic
chemists'
toolbox
-Summarizes
the state of
the art on how
to make and
use functional
inorganic
polymers?from
synthesis to
applications

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-Edited by the
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coordinator of
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a highly

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community

research

program (COST

action) that

focuses

specifically

on the

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exploration of
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polymers
-Features

contributions
from top
experts in the
field Aimed at
academics and
industrial
researchers in
this field,

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Synthesis,
Properties and
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in Materials
and Life
Sciences will
also benefit
scientists who

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want to get a

better

overview on

the state-of-

the-art of

this rapidly

advancing

area.

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contains

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detailed
worked
solutions to
all the end of
chapter
problems
within
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provides fully
worked answers
to all non-

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descriptive
problems;
bullet-point
essay plans;
general notes
of further
explanation of
particular
topics and
tips on
completing
problems; cros

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s-references
to main text
and to other
relevant
problems;
margin notes
for guidance
and graphs,
structures and
diagrams. It
includes
Periodic table

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and Table of
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Physical
Housecroft
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Constants for
reference.

This manual
should be a
useful tool in
helping
students to
grasp problem-
solving skills
and to both

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lecturers and
students who

are using the
main Inorganic
Chemistry

text.

Concepts,

Advances and

Challenges

Inorganometall

ic Chemistry

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and Life
Sciences
Ions and
Electrons in
Solids

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*There is a certain
fascination
associated with
words. The
manipulation of
strings of symbols
according to
mutually accepted
rules allows a
language to
express history as
well as to
formulate
challenges for the*

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Howe

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future. But language changes as old words are used in a new context and new words are created to describe changing situations. How many words has the computer revolution alone added to languages?

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"Inorganometallic" is a word you probably have never encountered before. It is one created from old words to express a new presence. A strange sounding word, it is also a term fraught with internal contradiction caused by the

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*accepted meanings
of its constituent*

parts. "Inorganic"

is the name of a

discipline of

chemistry while

"metallic" refers to

a set of elements

constituting a

subsection of that

discipline. Why

then this Carrollian

approach to

entitling a set of

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Chemistry

serious academic papers? Organic,

the acknowledged

doyenne of

chemistry, is

distinguished from

her brother,

inorganic, by the

prefix "in," i. e. , he

gets everything not

organic.

Organometallic

refers to

compounds with

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Chemistry

*carbon-metal
bonds. It is simple!*

Inorganometallic is

everything else, i.

e. , compounds

with noncarbon-

metal element

bonds. But why a

new term? Is not

inorganic

sufficient? By

virtue of training,

limited time,

resources, co-

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Chemistry

*workers, and so
on, chemists tend
to work on a*

specific element

class, on a

particular

compound type, or

in a particular

phase. Thus, one

finds element-

oriented chemists

(e. g.

This text is

designed in part as

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Chemistry

*a companion
volume to the*

Primer Cluster

*molecules of the p-
block elements.*

*Metal-metal
bonded carbonyl
dimers and
clusters deals with
the synthesis,
structure, bonding,
and reactivity of J-
block metal
carbonyl*

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Chemistry

*compounds and
derivatives*

Catherine E

containing hydride,

phosphine, Manual

phosphite, and

organic ligands as

well as clusters

containing both

transition metal

and main group

fragments. Like

most areas of

chemistry, this is a

large one and this

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text is only intended to be an introduction to the field; the reader is

guided to several more advanced texts and literature reviews for more in-depth explorations of metal carbonyl dimer and cluster chemistry.

Chemistry provides a robust coverage

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*of the different
branches of*

chemistry - with

unique depth in

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in an introductory

text - helping

students to

develop a solid

understanding of

chemical

principles, how

they interconnect

and how they can

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*be applied to our
lives." Covers*

Physical Chemistry

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years...good for

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between varied

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different schools'

curricula and the

mcuh more

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This textbook aims

to convey the

important principles

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and facts of

inorganic chemistry

in a way that is both

understandable and

enjoyable to

undergraduates.

Examples help to

illustrate the

material, and key

points are

summarized at the

conclusion of each

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Its Coverage Of
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Discusses

Molecular

Symmetry Earlier

Than Other Texts

And Builds On This

Foundation In

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

***Provides a
comprehensive
survey of the***

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structures, bonding,

synthesis, and

reactivity of the title

molecules. The text

includes clusters

found in the

elemental state as

well as compounds.

Terms commonly

encountered in

cluster chemistry

are defined and

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*polyhedral
frameworks are
described.*

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illustrated

preview of our

future in

space and a

review of past

successes and

failures.

Hardy's

illustrations

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show, for

instance, how

the surface of

each planet

and its moons

was originally

imagined by

the writers

when they

worked

together over

30 years ago

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and reveals

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how our

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knowledge has

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been vastly

improved by

data from

satellites,

probes and

telescopes.

Hardy and

Moore also

apply their

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*knowledge and
imagination to
look into the
future for*

space

exploration

and to create

artists'

impressions of

worlds not

visible with

current

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technology.

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Designed as a

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student text,

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focuses on

teaching the

underlying

principles of

inorganic

chemistry in a

modern and

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relevant way.

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The 'Red Book'

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is the

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definitive

guide for

scientists

requiring inte

rnationally

approved

inorganic

nomenclature

in a legal or

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*regulatory
environment.*

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Inorganic and
Organometallic
Systems*

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Bonded

Carbonyl

Dimers and

Clusters

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Ruthenium

Chemistry

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Offering a different,
more engaging
approach to
teaching and
learning, Organic

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Chemistry: A
Mechanistic
Approach classifies
organic chemistry
according to
mechanism rather
than by functional
group. The book
elicits an
understanding of the
material, by means
of problem solving,
instead of purely

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requiring

memorization. The

text enables a deep

unders

Defects play an

important role in

determining the

properties of solids.

This book provides

an introduction to

chemical bond,

phonons, and

thermodynamics;

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Chemistry

treatment of point
defect formation and

reaction, equilibria,

mechanisms, and

kinetics; kinetics

chapters on solid

state processes;

and electrochemical

techniques and

applications. *

Offers a coherent

description of

fundamental defect

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chemistry and the most common applications. * Up-to-date trends and developments within this field. *

Combines electrochemical concepts with aspects of semiconductor physics.

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students, this

volume surveys the

current IUPAC

nomenclature

recommendations in

organic, inorganic

and macromolecular

chemistry.

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Thermally Activated

Delayed

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of Inorganic and
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Systems helps

students develop both

an appreciation of and

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chapters that open

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Cluster Molecules of
the P-block Elements

Chemistry3

This book presents

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achievements

towards the next

generation of Light-

emitting

electrochemical cells

(LEC). Its first part

focus on the

definition, history

and mechanism of

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LEC, going then to concepts and challenges and, finally, giving the reader examples of current application of new electroluminescent materials. The chapters are written by different international groups working on LEC.

This book will

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describe Ruthenium complexes as

chemotherapeutic

agent specifically at

tumor site. It has

been the most

challenging task in

the area of cancer

therapy.

Nanoparticles are

now emerging as the

most effective

alternative to

traditional

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Nanoparticles have

been shown to be

useful in this respect.

However, in view of

organ system

complicacies, instead

of using

nanoparticles as a

delivery tool, it will

be more appropriate

to synthesize a drug

of nanoparticle size

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that can use blood transport mechanism to reach the tumor site and regress cancer. Due to less toxicity and effective bio-distribution, ruthenium (Ru) complexes are of much current interest. Additionally, luminescent Ru-complexes can be synthesized in

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nanoparticle size and
can be directly

traced at tissue level.

The book will contain

the synthesis,

characterization, and

applications of

various Ruthenium

complexes as

chemotherapeutic

agents. The book will

also cover the

introduction to

chemotherapy,

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classification of Ru-complexes with respect to their oxidation states and geometry, Ruthenium complexes of nano size: shape and binding- selectivity, binding of ruthenium complexes with DNA, DNA cleavage studies and cytotoxicity. The

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present book will be more beneficial to researchers, scientists and biomedical. Current book will empower specially to younger generation to create a new world of ruthenium chemistry in material science as well as in medicines. This book will be also beneficial

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national/international
research

laboratories, and

academia with
interest in the area
of coordination
chemistry more
especially to the
Ruthenium
compounds and its
applications.

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(3rd edition).