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Chemistry

Of Elements

This text

presents

analytical

techniques for

the

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**determination
of heavy
metals in air
particles,
water, soil
and biological
samples. It
details
experimental
studies to
reduce the
occurrence of**

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disease,

Earnshaw
remediate

Chemistry Of
contaminated

Elements
sites and

establish

acceptable

range of oral

intakes (AROI)

guidelines.

When this

innovative

textbook first

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appeared in

1984 it

rapidly became

a great

success

throughout the

world and has

already been

translated

into several

European and

Asian

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***Languages. Now
the authors
have
completely
revised and
updated the
text,
including more
than 2000 new
literature
references to
work published***

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**since the
first edition.**

**No page has
been left**

unaltered but

the novel

features which

proved so

attractive

have been

retained. The

book presents

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Chemistry Of

Elements

***a balanced,
coherent and
comprehensive
account of the
chemistry of
the elements
for both
undergraduate
and
postgraduate
students. This
crucial***

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Chemistry Of

Elements

***central area
of chemistry
is full of
ingenious
experiments,
intriguing
compounds and
exciting new
discoveries.
The authors
specifically
avoid the term***

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Elements

'inorganic chemistry' since this evokes an outmoded view of chemistry which is no longer appropriate in the final decade of the 20th century.

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Elements

***Accordingly,
the book
covers not
only the
'inorganic'
chemistry of
the elements,
but also
analytical,
theoretical,
industrial, or
ganometallic,***

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*bio-inorganic
and other
cognate areas
of chemistry.
The authors
have broken
with recent
tradition in
the teaching
of their
subject and
adopted a new*

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Chemistry Of

Elements

***and highly
successful
approach based
on descriptive
chemistry. The
chemistry of
the elements
is still
discussed
within the
context of an
underlying***

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*theoretical
framework,
giving
cohesion and
structure to
the text, but
at all times
the chemical
facts are
emphasized.
Students are
invited to*

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exciting world***

of chemical

***phenomena with
a sound***

***knowledge and
understanding***

of the

subject, to

***approach exper
imentation***

with an open

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mind, and to

assess

observations

reliably. This

is a book that

students will

not only value

during their

formal

education, but

will keep and

refer to

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***throughout
their careers
as chemists.***

***Completely
revised and
updated Unique
approach to
the subject***

More

***comprehensive
than competing
titles***

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edition of
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of Geophysics
has been
completely
revised and
updated, and
is the ideal
geophysics
textbook for
undergraduate***

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*students of
geoscience
with an
introductory
level of
knowledge in
physics and
mathematics.
It gives a
comprehensive
treatment of
the*

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*fundamental
principles of
each major
branch of
geophysics,
and presents
geophysics
within the
wider context
of plate
tectonics,
geodynamics*

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and planetary science. Basic principles are explained with the aid of numerous figures and step-by-step mathematical treatments, and important geophysical

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illustrated
with examples
from the
scientific
literature.**

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used for
auxiliary
explanations
and to handle
topics of**

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*interest for
more advanced
students. This
new edition
also includes
review
questions at
the end of
each chapter
to help assess
the reader's
understanding*

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of the topics

covered and

quantitative

exercises for

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the exercises

and electronic

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figures are

available at w

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28.**

***Coordination
chemistry, as
we know it
today, has
been shaped by
major figures
from the past,
one of whom
was Joseph***

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Chatt.

Earnshaw

Beginning with

Chemistry Of

a description

Elements

of Chatt's

career

presented by

co-workers,

contemporaries

and students,

this

fascinating

book then goes

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on to show how

many of

today's

leading

practitioners

in the field,

working in

such diverse

areas as

phosphines,

hydrogen

complexes,

complexes,

complexes,

complexes,

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transition

Earnshaw

metal

Chemistry Of

complexes and

Elements

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*

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***permanent
record of
Chatt's life,
work and
influence,
this book will
be of interest
to lecturers,
graduate
students,
researchers
and science***

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historians.
The Whys and
Whences of
Chemical
Nomenclature
and
Terminology
Concepts and
Models of
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Symmetry and

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***Spectroscopy
of Molecules
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Chemistry***

This unique text is ingeniously organized by class of compound and by property or reaction type, not group by group or element by element

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(which requires students to memorize isolated facts).

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Xenon, and Radon –

Gas Solubilities is a

three-chapter text that

presents the solubility

data of various forms

of the title compounds

in different substrates.

This series emerged

from the fundamental

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trend of the Solubility Data Project, which is toward integration of secondary and 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,

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that has been

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thoroughly updated.

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This textbook is a

Elementary

comprehensive

introduction to the key

disciplines of

mathematics - linear

algebra, calculus, and

geometry - needed in

the undergraduate

physics curriculum. Its

leitmotiv is that

success in learning

these subjects

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Kinetics

depends on a good balance between theory and practice. Reflecting this belief, mathematical foundations are explained in pedagogical depth, and computational methods are introduced from a physicist's perspective and in a timely manner. This original

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Inorganic
approach presents

concepts and

methods as

inseparable entities,

facilitating in-depth

understanding and

making even

advanced

mathematics tangible.

The book guides the

reader from high-

school level to

advanced subjects

such as tensor

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algebra, complex functions, and differential geometry. It contains numerous worked examples, info sections providing context, biographical boxes, several detailed case studies, over 300 problems, and fully worked solutions for all odd-numbered problems. An online solutions

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manual for all even-
numbered problems
will be made available
to instructors.

Modern Coordination
Chemistry

Krypton, Xenon &
Radon

Chemistry of the
Elements

Introductory Concepts
and Methods

Chemistry of Tin

The job of any

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reservoir

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engineer is to

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maximize

Elements

production from

a field to obtain

the best

economic

return. To do

this, the

engineer must

study the

behavior and

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characteristics
of a petroleum
reservoir to
determine the
course of future
development
and production
that will
maximize the
profit. Fluid flow,
rock properties,
water and gas

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coning, and relative permeability are only a few of the concepts that a reservoir engineer must understand to do the job right, and some of the tools of the trade are water

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influx

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calculations, lab

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reservoir fluids,

and oil and gas

performance

calculations. Two

new chapters

have been

added to the

first edition to

make this book

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a complete
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resource for
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professionals in
the petroleum
industry:

Principles of
Waterflooding,
Vapor-Liquid
Phase Equilibria.
The field of low-
dimensional

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conductors has been very active for more than twenty years. It has grown continuously and both the inorganic and organic materials have remarkable properties, such

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as charge and spin density waves and superconductivity.

The discovery of superconductivity at high temperature in copper-based quasi two-dimensional conducting

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oxides nearly
ten years ago
has further
enlarged the
field and
stimulated new
research on
inorganic
conductors. It
was obviously
impossible to
cover such a

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broad field in a
ten day Institute
and it seemed
pertinent to
concentrate on
inorganic
conductors,
excluding the
high T_c
superconducting
oxides. In this
context, it was

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highly desirable
to include both
physics and
chemistry in the
same Institute in
order to tighten
or in some cases
to establish links
between
physicists and
chemists. This
Advanced Study

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Institute is the continuation of a series of similar ones which have taken place every few years since 1974. 73 participants coming from 13 countries have taken part in this School at

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the beautiful
site of the
Centre de
Physique des
Houches in the
Mont-Blanc
mountain range.
The scientific
programme
included more
than forty
lectures and

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seminars, two poster sessions and ten short talks. Several discussion sessions were organized for the evenings, one on New Materials, one on New Topics and one on the

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special problem
of the Fermi and
Luttinger liquids.

The scientific
activity was kept
high from the
beginning to the
end of the
Institute.

Organic
Chemistry, Ninth
Edition gives

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students a
contemporary
overview of
organic
principles and
the tools for
organizing and
understanding
reaction
mechanisms
and synthetic
organic

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chemistry with unparalleled and highly refined pedagogy. This text presents key principles of organic chemistry in the context of fundamental reasoning and problem solving.

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encourage

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students to use

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the text before

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class as a

primary

introduction to

organic

chemistry as

well as a

comprehensive

study tool for

working

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problems and/or
preparing for
exams.

Proceedings of
the NATO
Advanced
Research
Workshop on
Frontiers in
Molecular-Scale
Science and
Technology of

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Fullerence,

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Nanotube,

Chemistry Of

Nanosilicon,

Elements

Biopolymer

(DNA, Protein)

Multifunctional

Nanosystems,

Kyiv, Ukraine,

9-12 September

2001

Technetium and

Rhenium

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Cause and

Earnshaw
Prevention

Chemistry Of
Third Edition

Elements

Pulp Bleaching

Today

Handbook of

Nanoscale

Optics and

Electronics

The first broad

account offering a non-

mathematical, unified

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treatment of solid state chemistry. Describes synthetic methods, X-ray diffraction, principles of inorganic 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;

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three groups of industrially important inorganic solids--glass, cement, and refractories; and certain aspects of organic solid state chemistry, including the "organic metal" of new materials.

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highly integrated

optical and electronic

devices, as well as

extremely sensitive

detectors for

biomedical and

environmental

applications, a field

called nano-optics or n

ano-

photonics/electronics

is emerging □ studying

the many promising

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optical properties of nanostructures. Like nanotechnology itself, it is a rapidly evolving and changing field □ but because of strong research activity in optical communication and related devices, combined with the intensive work on nanotechnology, nano-

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optics is shaping up fast to be a field with a promising future.

This book serves as a one-stop review of modern nano-optical/photonic and nano-electronic techniques, applications, and developments.

Provides overview of the field of Nano-

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optics/photronics and
electronics, detailing

practical examples of

photonic technology

in a wide range of

applications Discusses

photonic systems and

devices with

mathematical rigor

precise enough for

design purposes A one-

stop review of modern

nano-optical/photonic

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and nano-electronic
techniques,
applications, and
developments.

Pulp bleaching has
gone through dramatic
changes in the last two
decades. The process
has moved from a
discharge of toxic and
poorly biodegradable
effluent to a general
acceptance of

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environmentally
sound technology.

This book describes the production of high quality pulp with high brightness and good yield making the best use of resources. It reviews basics and explains the potential of different chemicals in bleaching, their ideal reaction

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conditions and their limitations. This reference work should educate students in the art of bleaching, assist mill personnel in their continuous effort for process optimization and help research and technology managers to select successful targets. Overview of bleaching agents and

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processes

Earnshaw
Comprehensive
Chemistry Of
Elements
economic and
environmental
solutions

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

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transuranium

Earnshaw

elements, including

Chemistry Of
their discovery,

Elements
chemical properties,

nuclear properties,

nuclear synthesis

reactions,

experimental

techniques, natural

occurrence,

superheavy elements,

and predictions for the

future. Published on

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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 study.

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Oxidations

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Theory and
Application
Molecular Quantum
Mechanics

In common with
the editor of the
first edition, my
own personal
involvement with
tin chemistry
began when I had

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Earrishaw
Chemistry Of
Elements

the privilege of
studying for a
PhD degree under
the supervision of
Professor Alwyn
G. Davies FRS at
University College
London (UCL)
almost exactly 30
years ago. Then,
following 21
years' service

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with the

Earnshaw

International Tin

Chemistry Of

Research

Elements

Institute, it was a

great pleasure for

me when the

wheel turned full

circle and, in

1994, Alwyn - now

an Emeritus

Professor - asked

me to return to

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UCL as an
Honorary
Research Fellow
in the Chemistry
Department. One
of my first tasks
was when I
received an
invitation from
Blackie A&P to
edit the second
edition of the

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Chemistry of Tin,
which I was
delighted to
accept, since it
enabled me to
continued my life-
long interest in tin
chemistry and to
maintain contact
with my former
friends and
colleagues, many

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of whom have
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Sharpe's
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internationally

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elements and the
role played by
inorganic

chemistry in our
everyday lives.

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been further
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three-dimensional
molecular and
protein structures
and photographs,
bringing to life
the world of
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chemistry.

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latest research,
this edition also

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includes coverage relating to the extended periodic table and new approaches to estimating lattice energies and to bonding classifications of organometallic compounds. A carefully

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features designed

to encourage

thought and to

help students

consolidate their

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understanding
and learn how to
apply their
understanding of
key concepts
within the real
world. Features
include: ·
Thematic boxed
sections with a
focus on areas of
Biology and

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Medicine, the
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Applications, and

Theory engage
students and
ensure they gain a
deep, practical
and topical
understanding · A
wide range of in-
text self-study
exercises

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including worked
examples,
reflective
questions and end
of chapter
problems aid
independent study
• Definition panels
and end-of-
chapter checklists
provide students
with excellent

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Chemistry Of
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revision aids ·

Striking visuals throughout the book have been carefully crafted to illustrate molecular and protein structures and to entice students further into the world of inorganic

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chemistry

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Inorganic

Chemistry Of

Elements 5th

edition is also

accompanied by

an extensive

companion

website, available

at www.pearsoned.co.uk/housecroft

. This features

multiple choice

multiple choice

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Chemistry Of
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questions and
rotatable 3D
molecular
structures.

This textbook
provides essential
information for
students of
inorganic
chemistry or for
chemists pursuing
self-study. The

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presentation of
topics is made
with an effort to
be clear and
concise so that
the book is
portable and user
friendly. Inorganic
Chemistry 2E is
divided into five
major themes
(structure,

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condensed
phases, solution
chemistry, main
group and
coordination
compounds) with
several chapters
in each. There is a
logical
progression from
atomic structure
to molecular

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structure to
properties of
substances based
on molecular
structures, to
behavior of solids,
etc. The author
emphasizes
fundamental princ
iples-including
molecular
structure, acid-

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base chemistry,
coordination
chemistry, ligand
field theory, and
solid state
chemistry -and
presents topics in
a clear, concise
manner. There is
a reinforcement of
basic principles
throughout the

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book. For

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example, the hard-

Chemistry Of
soft interaction

Elements
principle is used

to explain

hydrogen bond

strengths,

strengths of acids

and bases,

stability of

coordination

compounds, etc.

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

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Elements
representations

Expanded
coverage of
spectroscopy,
instrumental
techniques,
organometallic
and bio-inorganic
chemistry More in-
text worked-out
examples to
encourage active

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for their exams •
Concise coverage
maximizes
student
understanding
and minimizes the
inclusion of
details students
are unlikely to
use. • Discussion

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of elements
begins with
survey chapters
focused on the
main groups,
while later
chapters cover
the elements in
greater detail. •
Each chapter
opens with
narrative

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nomenclature in a

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legal or

Elements

regulatory

environment.

IUPAC

Recommendations

2005

Solid State

Chemistry and Its

Applications

Principles Of

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Inorganic
Chemistry
Modern Physical
Organic
Chemistry
Principles of
Inorganic
Chemistry
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comprehensive
text provides

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group theory as
applied to
chemical
problems. Its
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writing style
invites the
reader to

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discover by
example the
power of
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the centrality
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chemistry that,

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chemical applications of group theory and molecular orbital theory throughout as an underlying framework. This highly physical approach allows students to derive the greatest

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Takes a princip
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diagrams

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heavy dose of

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illustrate the
merging of
certain areas
of boron
hydride
chemistry with
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disciplines,
such as
organic,
organometallic,
and transition
metal

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theory and
theoretical
research on
boron hydrides,
with an
emphasis on
boron hydrides
that have open
polyhedral
structures.

These topics
are followed by
discussions on

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gas phase and
solution
reactions of
borane and
substituted
boranes. A
chapter focuses
on the
chemistry of
cations
containing
boron atoms
bonded to

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

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borazines,
closo-boron
hydrides,
carboranes,
icosahedral
carboranes, and
close- and nido-
heteroboranes.

Inorganic
chemists and
researchers,
teachers, and
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students will

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the best tunes.

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be the first

impression of

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elements. The

chemical

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with boron is
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of the Gmelin
Handbook. Yet
such an

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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

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those and other
lives, some
would argue.

From being
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curios, gallium
and indium have
now gained
considerably
prominence as
sources of
compound
semiconductors

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like gallium
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13 elements. In
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coordination
and structural

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properties,
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there is to be

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found music

Elements
indeed, notable

not always for
its harmony but
invariably for
its richness
and variety.

This book seeks
to redress the
balance with a
definitive,

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gallium, indium
and thallium.
Their Chemistry
and Its
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scale, metallic as
well as non-
metallic aspects,
metal clusters are
a growing,
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field with
numerous potential
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catalysis with
transition metal
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the most important
areas of industrial
heterogeneous
catalysis. The
present book deals
with the chemical
and catalytic
aspects of
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sulphides, focusing

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homogeneous systems, with and without metals and on the "taming" of the highly reactive oxygen gas by use of micro-flow reactors and membranes. A useful reference for industrial and academic chemists working on oxidation

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processes, as well
as green chemists.

The Big Bang

Molecular

Symmetry And

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Physics and

Chemistry of Low-

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suitable for use by
graduates and
advanced

undergraduates in
chemistry and
biochemistry, and
graduates in physics,
geology, materials
science, metallurgy
and biology. It is not
designed to be a
dictionary of iron
compounds but rather
to provide each user

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with the necessary tools and background to pursue their individual interests in the wide areas that are influenced by the chemistry of 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

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chemists. This
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definitions of
terms (unless
required in the
etymological
context) nor
guidance as to
the timeliness
of different

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enumeration
would be
tiresome and

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of all chemical
disciplines
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failure, to a
certain extent,
is the result
of a phenomenal
increase in the
number and
variety of
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relatively few
years. The

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focus of this book is on actual field and product failures. The treatment is comprehensive, emphasizing cause and prevention. The concept of the interdependence of material,

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most electronic applications would not exist—sensors perform a vital function, namely providing an interface to the real world. Hall effect sensors, based on a magnetic

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phenomena, are
one of the most
commonly used
sensing

technologies
today. In the
1970s it became
possible to
build Hall
effect sensors
on integrated
circuits with
onboard signal

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circuitry,
vastly reducing
the cost and
enabling
widespread
practical use.
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first major
applications
was in computer
keyboards,
replacing

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mechanical
contacts.

Hundreds of
millions of
these devices
are now
manufactured
each year for
use in a great
variety of
applications,
including
automobiles,

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computers,
industrial
control
systems, cell

phones, and
many others.
The importance
of these
sensors,
however,
contrasts with
the limited
information

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available. Many recent advances in miniaturization, smart sensor configurations, and networkable sensor technology have led to design changes and a need for reliable

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Most of the technical information on Hall effect sensors is supplied by sensor manufacturers and is slanted toward a particular product line.

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and control
engineers need
an independent,
readable source
of practical
design
information and
technical
details that is
not product- or
manufacturer-
specific and

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that shows how
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sensors work,
how to
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them, and how
to apply them
in a variety of
uses. This book
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