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treatment of the
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inorganic
chemistry is
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Edition, Etc
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Practical Approaches to
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Chemistry, Second
Edition, reviews the use
of spectroscopic and
related analytical
techniques to investigate
the complex structures

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and mechanisms of biological inorganic systems that contain metals. Each chapter presents an overview of the technique, including relevant theory, a clear explanation of what it is, how it works, and how the technique is actually used to evaluate biological structures. New chapters cover Raman Spectroscopy and

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Magnetochemistry, but all chapters have been updated to reflect the latest developments in discussed techniques. Practical examples, problems and many color figures are also included to illustrate key concepts. The book is designed for researchers and students who want to learn both the basics and

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more advanced aspects of key methods in biological inorganic chemistry. Presents new chapters on Raman Spectroscopy and Molecular Magnetochemistry, as well as updated figures and content throughout. Includes color images throughout to enable easier visualization of molecular mechanisms

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and structures Provides worked examples and problems to help illustrate and test the reader ' s understanding of each technique
Written by leading experts who use and teach the most important techniques used today to analyze complex biological structures
Presents the structural concepts of inorganic

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chemistry through state-of-the-art, hands-on experiments. Presents laboratory techniques that are not commonly addressed: measurements of high temperatures; vacuum systems; ampulation of products; trap-to-trap distillation; slush baths; handling of compressed gases; and the cleanup of gas streams. It also presents

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solid state reactions,
which make possible
synthesis of high
temperature
superconductors;
semiconductors; and
electronic metal. An
important reference on
inorganic chemistry for
professional chemical
engineers.

Experimentelle
Einführung in Die
Unorganische Chemie

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Inorganic Systems

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Experimental

Demonstration of the
Facts and Principles of

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Inorganic
Chemistry
the Science by Charles W
Eliot

Coordination chemistry is the study of compounds formed between metal ions and other neutral or negatively charged molecules.

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This book offers a series of investigative inorganic laboratories approached through systematic coordination chemistry. It not only

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*highlights the
key*

*fundamental
components of
the
coordination
chemistry
field, it also
exemplifies
the historical
development of
concepts in*

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*the field. In
order to
graduate as a
chemistry
major that
fills the
requirements
of the
American
Chemical
Society, a
student needs*

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*to take a
laboratory
course in
inorganic
chemistry.*

*Most
professors who
teach and
inorganic
chemistry
laboratory
prefer to*

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*emphasize
coordination
chemistry
rather than
attempting to
cover all
aspects of
inorganic
chemistry;
because it
keeps the
students*

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*focused on a
cohesive part
of inorganic
chemistry,
which has
applications
in medicine,
the
environment,
molecular
biology,
organic*

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*synthesis, and
inorganic
materials.*

*It has long
been*

*recognized
that metal
spin states
play a central
role in the
reactivity of
important*

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*biomolecules,
in industrial
catalysis and
in spin
crossover
compounds. As
the fields of
inorganic
chemistry and
catalysis move
towards the
use of cheap,*

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*non-toxic
first row
transition
metals, it is
essential to
understand the
important role
of spin states
in influencing
molecular
structure,
bonding and*

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*reactivity.
Spin States in
Biochemistry
and Inorganic
Chemistry
provides a
complete
picture on the
importance of
spin states
for reactivity
in*

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*biochemistry
and inorganic*

*chemistry,
presenting*

both

theoretical

and

experimental

perspectives.

The successes

and pitfalls

of theoretical

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methods such as DFT, ligand-field theory and coupled cluster theory are discussed, and these methods are applied in studies throughout the book.

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Important spectroscopic techniques to determine spin states in transition metal complexes and proteins are explained, and the use of NMR for the

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*analysis of
spin densities
is described.*

*Topics covered
include: DFT
and ab initio
wavefunction
approaches to
spin states
Experimental
techniques for
determining*

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spin states

Molecular

discovery in

spin crossover

Multiple spin

state

scenarios in

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reactivity and

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complexes

involving

redox non-

innocent

ligands

Polynuclear

iron sulfur

clusters

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magnetism NMR

analysis of

spin densities

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reference for
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working in
bioinorganic
and inorganic
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computational
chemistry,
organometallic
chemistry,*

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*catalysis,
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materials,
materials
science,
biophysics and
pharmaceutical
chemistry.*

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(With*

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ultrasound are***

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acknowledged, a
detailed
presentation of
inorganic
systems covering
nano-particles,
catalysis,
aqueous
chemistry of
metallic
solutions and
their redox
characteristics,*

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*both from a
theoretical and
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perspective has
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*Involving
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*Systems fills
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overview
combines both
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and
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analyses, and
also with
preparation of
compounds,
thereby
strengthening
analytical and
preparative
skills. All the
main elements
and groups of
the periodic
table are

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directions for
laboratory
work, coupled
with such
questions as
lead the
student to
observe,
compare and
generalize, and
would therefore

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provide a method for the scientific development of the principles under discussion; (c) a sufficient amount of discussion and application of the principles involved in the

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experiments to
foster the
interest and to
direct the
Observations
that energy may
not be spent in
discriminately,
and (d) those
physico
chemical
generalizations
which are

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the explanation
of much of the
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of the Science

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actinide research
that focuses on new**

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includes
information on new
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the interplay
between these two
realms. The**

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synthesis to state-of-
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that such a
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it become a mere
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memory. The
minute
instructions,
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descriptions of

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printed in the
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are intended to
enable the
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for himself;
these detailed
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laboratory use.
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as clearly as

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distinction
between
chemistry and
chemical
manipulation,
the necessary
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the latter
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been put in an
Appendix. In
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it is impossible

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student to
experiment for
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made for this
text-book, as
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experiments have
been described
previously, yet
the writer
believes that
the book will be
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something more

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than a mere compilation. It grew originally out of a personal demand for a textbook which would embody: (a) a clear, accurate and comprehensive presentation of the fundamentals of the science;

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(b) specific
directions for
laboratory work,
coupled with
such questions
as lead the
student to
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and generalize,
and would
therefore
provide a method
for the
scientific

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development of
the principles
under
discussion; (c)
a sufficient
amount of
discussion and
application of
the principles
involved in the
experiments to
foster the
interest and to
direct the

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observations that energy may not be spent indiscriminately, and (d) those physico-chemical generalizations which are essential to the explanation of much of the phenomena of inorganic chemistry. This

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book represents an endeavor to meet these requirements. It is not intended that it shall take the place of a large descriptive work or the instruction of the teacher; on the contrary, it is designed to

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provide,
primarily, an
experimental
course in
general
chemistry, and
by the use of
"descriptive
notes" and
questions
vitally relate
it to the
lecture-room
work. It is

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scarcely
necessary to
emphazise the
importance of
laboratory work
as being
essential to a
thorough
comprehension of
the subject; but
this same work
has a very
doubtful value
unless it is

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carefully
directed and
correlated with
the lecture and
text-book. It
must not be
merely a
mechanical part
of the course.
The student must
see that his
laboratory work
is but a means
to an end - that

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lectures and experiments are mutually helpful. Very frequently the laboratory work is taught too much apart from the course. Beginners often complain, and more frequently conduct their work as if no

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relation existed
between lectures
and laboratory
work. It is
contended,
therefore, that
the laboratory
manual should
provide
something to
make obvious
this
relationship and
to assist in the

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included
experiments are
safe, have been
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to ensure
reproducibility,
are illustrative of
modern issues in
inorganic***

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***chemistry, and
are capable of
being performed
in one or two
laboratory
periods of three
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vary from school
to school, the
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highlights the theme of the experiment, often including a discussion of a particular characterization method that will be used, followed by the experimental procedure, a set

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