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textbook is to
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chemistry. This
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this title begins with a
detailed picture of the
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Although
coordination
chemistry naturally
centers on the

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While a large amount of information is available on coordination chemistry in general and synthetic methods in particular, no comprehensive work has been presented on the preparation of coordination compounds with an emphasis on

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classification of
synthetic reactions
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encyclopedic listing
of experimental
results. Hence, the
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selective than
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but to anyone
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engaged in the

preparation of

coordination

compounds for which

a variety of end uses

are likely. ”

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This book argues that

the traditional image

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of Feyerabend is
erroneous and that,
contrary to common

belief, he was a great
admirer of science. It
shows how

Feyerabend presented
a vision of science
that represented how
science really works.

Besides giving a
theoretical framework
based on Feyerabend
s philosophy of

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Principles 5th Edition Latest Science, the book offers criteria that can help readers to evaluate and understand research reported in important international science education journals, with respect to Feyerabend ' s epistemological anarchism. The book includes an evaluation of general

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chemistry and
physics textbooks.

Most science

curricula and

textbooks provide the

following advice to

students: Do not allow

theories in

contradiction with

observations, and all

scientific theories

must be formulated

inductively based on

experimental facts.

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Feyerabend 5th

questioned this
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widely prevalent

premise of science

education in most

parts of the world,

and in contrast gave

the following advice:

Scientists can accept

a hypothesis despite

experimental

evidence to the

contrary and

scientific theories are

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not always consistent with all the experimental data. No wonder Feyerabend became a controversial philosopher and was considered to be against rationalism and anti-science. Recent research in philosophy of science, however, has shown that most of

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Feyerabend's 5th
philosophical ideas
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are in agreement with
recent trends in the
21st century. Of the
120 articles from
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journals, evaluated in
this book only 9%
recognized that
Feyerabend was
presenting a plurality
of perspectives based
on how science really

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works. Furthermore, it has been shown that Feyerabend could even be considered as a perspectival realist. Among other aspects, Feyerabend emphasized that in order to look for breakthroughs in science one does not have to be complacent about the

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Principles of the theories
but rather has to look
for opportunities to
“ break rules ” or
“ violate
categories. ”

Mansoor Niaz
carefully analyses
references to
Feyerabend in the
literature and
displays the
importance of
Feyerabend ' s

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deep understanding

to the essence of

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this book Mansoor

Niaz explores the

antecedents, context

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Feyerabend's work
and offers a more-
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understanding, then
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literature. This is a
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to scholarship about
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between the content of chemistry education and the history and philosophy of science (HPS) framework that underlies such education. It discusses the need to present an image that reflects how chemistry developed and progresses. It proposes that

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chemistry should be taught the way it is practiced by chemists: as a human enterprise, at the interface of scientific practice and HPS. Finally, it sets out to convince teachers to go beyond the traditional classroom practice and explore new teaching strategies. The

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importance of HPS
has been recognized
for the science
curriculum since the
middle of the 20th
century. The need for
teaching chemistry
within a historical
context is not difficult
to understand as HPS
is not far below the
surface in any science
classroom. A review
of the literature

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shows that the traditional chemistry classroom, curricula, and textbooks while dealing with concepts such as law, theory, model, explanation, hypothesis, observation, evidence and idealization, generally ignore elements of the history and philosophy of science.

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education. Highly
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of the rare books on
the history and
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chemistry and their
importance in
teaching this science.

The book goes
through all the main
concepts of
chemistry, and
analyzes the historical
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developments as well as their reflections in textbooks. Closest to my heart is Chapter 6, which is devoted to the chemical bond, the glue that holds together all matter in our earth. The chapter emphasizes the revolutionary impact of the concept of the ‘ covalent bond ’ on the

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chemical community
and the great novelty
of the idea that was
conceived 11 years
before quantum
mechanics was able
to offer the
mechanism of
electron pairing and
covalent bonding. The
author goes then to
describe the
emergence of two
rival theories that

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explained the nature of the chemical bond in terms of quantum mechanics; these are valence bond (VB) and molecular orbital (MO) theories. He emphasizes the importance of having rival theories and interpretations in science and its advancement. He further argues that

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this VB-MO rivalry is still alive and together the two conceptual frames serve as the tool kit for thinking and doing chemistry in creative manners. The author surveys chemistry textbooks in the light of the how the books preserve or not the balance between the two

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Talmudic approach of
conceptual tension is
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characteristic of any
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would be of great
utility for chemistry
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recognizing the

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problems, and
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to make this book an
ideal choice for
instructors, students,
and researchers in
the chemical,
biological, and
medical communities.

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Aimed at senior
undergraduates and
first-year graduate
students, this book
offers a principles-
based approach to
inorganic chemistry
that, unlike other
texts, uses chemical
applications of group
theory and molecular
orbital theory
throughout as an
underlying

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theory in the primary
inorganic textbook,
most of the

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pedagogical benefits
of integration and
reinforcement of this
material in the
treatment of other
topics, such as
frontier MO
acid--base theory,
band theory of solids,
inorganic
photochemistry, the
Jahn-Teller effect, and
Wade's rules are fully
realized Very physical

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in nature compare to other textbooks in the field, taking the time to go through mathematical derivations and to compare and contrast different theories of bonding in order to allow for a more rigorous treatment of their application to molecular structure, bonding, and

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examples throughout
the text; unanswered
problems in every
chapter; contains a
generous use of
informative, colorful
illustrations

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