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February 28–March 01, 2019,
London, UK Key Topics: Novel
Approaches To Analytical And
Bioanalytical Methods

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, Analytical Methodology
, Bioanalytical Methodology
, Chromatography
, Environmental Analytical
Chemistry , Electrophoresis
, Mass Spectrometry
, Crystallography
, Spectroscopy , Instrumental

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Methods , Nuclear Magnetic
Resonance Spectroscopy
, Titration , Applications Of
Analytical Chemistry
, Proteomics , Forensic
Analysis , Advances In
Separation Techniques
, Analytical Biotechnology

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,Pharmaceutical Analysis
,Process Analytical
Chemistry ,Thermal Analysis
And Glycomics ,Applications
Of Analytical And
Bioanalytical Methods ,New
Instrumentation And
Equipment ,Regulatory Issues

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And Biosafety Challenges In
Bioanalysis , Polymer
Nanotechnology , Biopolymers
& Biomaterials , Bioplastics
, Organic Chemistry , Green
Analytical Chemistry
, Medical Chemistry
, Radioanalytical Chemistry

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It goes without saying that atomic structure, including its dual wave-particle nature, cannot be demonstrated in the classroom. Thus, for most science teachers, especially those in physics and

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chemistry, the textbook is their key resource and their students' core source of information. Science education historiography recognizes the role played by the history and philosophy of science in

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developing the content of our textbooks, and with this in mind, the authors analyze more than 120 general chemistry textbooks published in the USA, based on criteria derived from a historical reconstruction of

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wave-particle duality. They come to some revealing conclusions, including the fact that very few textbooks discussed issues such as the suggestion, by both Einstein and de Broglie, and before conclusive experimental

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evidence was available, that wave-particle duality existed. Other large-scale omissions included de Broglie's prescription for observing this duality, and the importance of the Davisson-Germer experiments,

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as well as the struggle to interpret the experimental data they were collecting. Also untouched was the background to the role played by Schrödinger in developing de Broglie's ideas. The authors argue

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that rectifying these deficiencies will arouse students' curiosity by giving them the opportunity to engage creatively with the content of science curricula. They also assert that it isn't just the

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experimental data in science that matters, but the theoretical insights and unwonted inspirations, too. In addition, the controversies and discrepancies in the theoretical and experimental

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record are key drivers in understanding the development of science as we know it today.

This book explores the evolving nature of objectivity in the history of science and its

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implications for science education. It is generally considered that objectivity, certainty, truth, universality, the scientific method and the accumulation of experimental data characterize both science

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and science education. Such universal values associated with science may be challenged while studying controversies in their original historical context. The scientific enterprise is not characterized by

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objectivity or the scientific method, but rather controversies, alternative interpretations of data, ambiguity, and uncertainty. Although objectivity is not synonymous with truth or

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certainty, it has eclipsed other epistemic virtues and to be objective is often used as a synonym for scientific. Recent scholarship in history and philosophy of science has shown that it is not the

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experimental data (Baconian
orgy of quantification) but
rather the diversity /
plurality in a scientific
discipline that contributes
toward understanding
objectivity. History of
science shows that

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objectivity and subjectivity can be considered as the two poles of a continuum and this dualism leads to a conflict in understanding the evolving nature of objectivity. The history of objectivity is nothing less

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than the history of science itself and the evolving and varying forms of objectivity does not mean that one replaced the other in a sequence but rather each form supplements the others. This book is remarkable for

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its insistence that the philosophy of science, and in particular that discipline's analysis of objectivity as the supposed hallmark of the scientific method, is of direct value to teachers of science.

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Meticulously, yet in a most readable way, Mansoor Niaz looks at the way objectivity has been dealt with over the years in influential educational journals and in textbooks; it's fascinating how certain perspectives

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fade, while basic questions show no sign of going away. There are few books that take both philosophy and education seriously - this one does! Roald Hoffmann, Cornell University, chemist, writer and Nobel Laureate in

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Chemistry

Air pollution has historically been viewed as a local or regional scale problem with attention focused on acute episodes such as the sulphur dioxide and smoke smogs of London in

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the 1950s and 1960s and the photochemical smogs of southern California first recognized by Haagen Smit in the early 1950s. In recent years, however, it has become apparent that human activity has, and still is,

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changing the chemical composition of the atmosphere on a global scale. The composition of the atmosphere has seen enormous changes due to natural processes since the formation of the planet.

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Data obtained from air bubbles trapped in polar ice are beginning to reveal information about these changes over the last tens of thousands of years and geochemical models of the evolution of the Earth give

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us insights into the changes over much longer periods of time. Perhaps the crucial differences between these natural changes and those now being induced by man are their relative rates of change. The magnitude of

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present day fluxes of some compounds released as air pollutants is in some cases much larger than those arising naturally. In other cases, for example carbon dioxide, the anthropogenic emission rates are small

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compared with that of the natural cycle, but the kinetics of the system are such that the steady state concentrations of the compounds in the atmosphere are now being perturbed.

Curious Tales from Chemistry

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**And Other Curious Tales from
Chemistry**

**Feyerabend's Epistemological
Anarchism**

**The Ocean's Role in Climate
Change**

**MEGA Study Guide for NTSE
(SAT, MAT & LCT) Class 10**

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Stage 1 & 2 - 10th Edition
Nanostructures and
Nanomaterials for Batteries

The field of environmental chemistry has evolved significantly since the publication of the first edition

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***of Environmental Chemistry.
Throughout the book's long
life, it has chronicled emerging
issues such as organochloride
pesticides, detergent
phosphates, stratospheric
ozone depletion, the banning***

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***of chlorofluorocarbons, and
greenhouse warming. During
this time the first Nobel Prize
for environmental chemistry
was awarded. Written by
environmental chemist Stanley
Manahan, each edition has***

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reflected the field's shift of emphasis from pollution and its effects to its current emphasis on sustainability. What makes this book so enduring? Completely revised, this ninth edition retains the

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organizational structure that has made past editions so popular with students and professors while updating coverage of principles, tools, and techniques to provide fundamental understanding of

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environmental chemistry and its applications. It includes end-of chapter questions and problems, and a solutions manual is available upon qualifying course adoptions. Rather than immediately

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***discussing specific
environmental problems,
Manahan systematically
develops the concept of
environmental chemistry so
that when he covers specific
pollutions problems the***

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background necessary to understand the problem has already been developed. New in the Ninth Edition: revised discussion of sustainability and environmental science updates information on

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***chemical fate and transport,
cycles of matter examination
of the connection between
environmental chemistry and
green chemistry coverage of
transgenic crops the role of
energy in sustainability***

***potential use of toxic
substances in terrorist attacks
Manahan emphasizes the
importance of the
anthrosphere – that part of the
environment made and
operated by humans and their***

technologies. Acknowledging technology will be used to support humankind on the planet, it is important that the anthrosphere be designed and operated in a manner that is compatible with sustainability

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***and that it interacts
constructively with the other
environmental spheres. With
clear explanations, real-world
examples, and updated
questions and answers, the
book emphasizes the concepts***

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***essential to the practice of
environmental science,
technology, and chemistry
while introducing the newest
innovations in the field.
Readily adapted for classroom
use, a solutions manual is***

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***available with qualifying
course adoption.***

***Study more effectively and
improve your performance at
exam time with this
comprehensive guide. The
guide includes chapter***

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summaries that highlight the main themes; study goals with section references; lists of important terms; a preliminary test for each chapter that provides an average of 80 drill and concept questions; and

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answers to the preliminary tests. The Study Guide helps you organize the material and practice applying the concepts of the core text. Important Notice: Media content referenced within the product

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***description or the product text
may not be available in the
ebook version.***

***This textbook introduces the
molecular side of physical
chemistry. It offers students
and practitioners a new***

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***approach to the subject by
presenting numerous
applications and solved
problems that illustrate the
concepts introduced for varied
and complex technical
situations. The book offers a***

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***balance between theory, tools,
and practical applications. The
text aims to be a practical
manual for solving
engineering problems in
industries where processes
depend on the chemical***

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composition and physical properties of matter. The book is organized into three main topics: (I) the molecular structure of matter, (II) molecular models in thermodynamics, and (III)

transport phenomena and mechanisms. Part I presents methods of analysis of the molecular behavior in a given system, while the following parts use these methods to study the equilibrium states of

***a material system and to
analyze the processes that can
take place when the system is
in a state of non-equilibrium,
in particular the transport
phenomena. Molecular
Physical Chemistry for***

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***Engineering Applications is
designed for upper-level
undergraduate and graduate
courses in physical chemistry
for engineers, applied physical
chemistry, transport
phenomena, colloidal***

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***chemistry, and
transport/transfer processes.
The book will also be a
valuable reference guide for
engineers, technicians, and
scientists working in industry.
Offers modeling techniques***

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***and tools for solving exercises
and practical cases; Provides
solutions and conclusions so
students can follow results
more closely; Step-by-step
problem solving enables
students to understand how to***

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***approach complex issues.
The thoroughly Revised &
Updated 10th edition of MEGA
Study Guide for NTSE Class
10 is empowered with the
syllabus of Class 8, 9 & 10 as
prescribed by NCERT. The***

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book also comprises of Past questions of NTSE Stage 1 & 2 from the years 2012-2018. • All the sections have been thoroughly revised and updated theory enriched with New & Past NTSE questions.

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New Chapters have been added in Social Sciences, Mental Ability and other sections have been enlarged so as to make the book extremely useful for students.

- There are now 28 chapters in***

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the Mental Ability Section (MAT). • The Scholastic Aptitude section (SAT) has been divided into 9 parts – Physics, Chemistry, Biology, Mathematics, English, History, Geography, Civics and

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Economics. • The book covers English Language Test (ELT) which contains theoretical concepts with practice exercises for Stage 1 & 2 as per the NTSE Stage 2 format. • The book provides sufficient

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pointwise theory, solved examples followed by Fully Solved exercises in 2 levels State/ UT level & National level. • Maps, Diagrams and Tables to stimulate the thinking ability of the student.

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• The book also contains very similar questions to what have been asked in the previous NTSE examinations. • The book covers new variety of questions - Passage Based, Assertion-Reason, Matching,

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Definition based, Statement based, Feature Based, Diagram Based and Integer Answer Questions. • The book covers a special section on Exemplar problems in Mathematics which contains a

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mix of problems with solutions for Stage 1 & 2. • The ebook contains the solved papers of 2014-17 NTSE 2nd Stage SAT, LCT & MAT. The ebook also includes select MCQs from Stage 1.

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***Environmental Chemistry,
Ninth Edition
Fiscal Year 2001 Climate
Change Budget Authorization
Request
Problems, Exercises, and
Solutions***

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***Studieren kompakt
Experiments & Applications in
the Tropics***

Climate Change Aspects

**This is a book about
discovery and disaster,
exploitation and**

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**invention, warfare and
science - and the
relationship between
human beings and the
chemical elements that
make up our planet. Lars
Ohrstrom introduces us**

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**to a variety of elements
from S to Pb through
tales of ordinary and
extraordinary people
from around the globe.
We meet African
dictators controlling**

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**vital supplies of
uranium; eighteenth-
century explorers
searching out sources of
precious metals;
industrial spies
stealing the secrets of**

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steel-making. We find out why the Hindenburg airship was tragically filled with hydrogen, not helium; why nail-varnish remover played a key part in World War I;

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**and the real story
behind the legend of tin
buttons and the downfall
of Napoleon. In each
chapter, we find out
about the distinctive
properties of each**

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**element and the concepts
and principles that have
enabled scientists to
put it to practical use.
These are the
fascinating (and
sometimes terrifying)**

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**stories of chemistry in
action.**

**This book highlights
leading-edge research in
multi-disciplinary areas
in Physics, Engineering,
Medicine, and Health**

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**care, from the 6th IRC
Conference on Science,
Engineering and
Technology (IRC-SET
2020) held in July 2020
at Singapore. The papers
were shortlisted after**

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extensive rounds of reviews by a panel of esteemed individuals who are pioneers in their domains. The book also contains excerpts of the speeches by eminent

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**personalities who graced
the occasion, thereby
providing written
documentation of the
event.**

**Advances in Climate
Change and Global**

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**Warming Research and
Application: 2011
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authoritative, and
comprehensive**

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**information about
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Global Warming. The
editors have built
Advances in Climate
Change and Global
Warming Research and**

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**Application: 2011
Edition on the vast
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expect the information
about Climate Change and
Global Warming in this**

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The content of Advances**

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**in Climate Change and
Global Warming Research
and Application: 2011
Edition has been
produced by the world's
leading scientists,
engineers, analysts,**

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and companies. All of
the content is from peer-
reviewed sources, and
all of it is written,
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the editors at**

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La 4eme de couv. indique
: "This is a book about
discovery and disaster,
exploitation and
invention, warfare and

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**science, and the
relationship between
human beings and the
chemical elements that
make up our planet. It
is an introduction to
chemistry as you never**

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thought it at school."
**Advances in Climate
Change and Global
Warming Research and
Application: 2011
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The Last Alchemist in

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Paris

**Fundamentals of Quorum
Sensing, Analytical
Methods and Applications
in Membrane Bioreactors
Computer Based Projects
for a Chemistry**

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**Curriculum
Global Climate Change
and Tropical Ecosystems
Insights in Analytical
Electrochemistry :
Volume 5**

This book provides notes for basic

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laboratory experiments in qualitative analysis of cations. The book introduces readers to basic methods and laboratory safety. Subsequent chapters cover six groups of cations. Each chapter explains important details that are

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required to understand how a particular analytical method works for detecting cations in samples, starting from sedimentation and ending with the identification. Key Features: - Simple, reader friendly format - introductory notes and

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summary - Covers several groups of metals - Appendix for handy reference with tables and references This is a useful textbook for early chemistry students and teachers as it equips the readers with sufficient information required

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to analyze chemical samples and deduce the presence of specific cations as part of laboratory coursework.

Environmental Engineering provides a profound introduction to Ecology, Chemistry, Microbiology,

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Geology and Hydrology engineering. The authors explain transport phenomena, air pollution control, waste water management and soil treatment to address the issue of energy preservation, production asset and control of

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waste from human and animal activities. Modeling of environmental processes and risk assessment conclude the interdisciplinary approach. This book explores the relationship between the content of chemistry

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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

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explore new teaching strategies. The 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

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is not far below the surface in any science classroom. A review of the literature shows that the traditional chemistry classroom, curricula, and textbooks while dealing with concepts such as law, theory, model, explanation, hypothesis,

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observation, evidence and idealization, generally ignore elements of the history and philosophy of science. This book proposes that the conceptual understanding of chemistry requires knowledge and understanding of

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the history and philosophy of science. "Professor Niaz's book is most welcome, coming at a time when there is an urgently felt need to upgrade the teaching of science. The book is a huge aid for adding to the usual way - presenting

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science as a series of mere facts - also the necessary mandate: to show how science is done, and how science, through its history and philosophy, is part of the cultural development of humanity.” Gerald Holton, Mallinckrodt Professor of

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Physics & Professor of History of Science, Harvard University “In this stimulating and sophisticated blend of history of chemistry, philosophy of science, and science pedagogy, Professor Mansoor Niaz has succeeded in offering a promising

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new approach to the teaching of fundamental ideas in chemistry. Historians and philosophers of chemistry --- and above all, chemistry teachers --- will find this book full of valuable and highly usable new ideas” Alan Rocke,

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Case Western Reserve University

“This book artfully connects chemistry and chemistry education to the human context in which chemical science is practiced and the historical and philosophical background that illuminates that

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practice. Mansoor Niaz deftly weaves together historical episodes in the quest for scientific knowledge with the psychology of learning and philosophical reflections on the nature of scientific knowledge and method. The result is a compelling

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*case for historically and philosophically informed science education. Highly recommended!”
Harvey Siegel, University of Miami
“Books that analyze the philosophy and history of science in Chemistry are quite rare. ‘Chemistry*

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Education and Contributions from History and Philosophy of Science' by Mansoor Niaz is one of the rare books on the history and philosophy of chemistry and their importance in teaching this science. The book goes through all the main

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concepts of chemistry, and analyzes the historical and philosophical 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

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all matter in our earth. The chapter emphasizes the revolutionary impact of the concept of the 'covalent bond' on the chemical community and the great novelty of the idea that was conceived 11 years before quantum mechanics

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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 explained the nature of the chemical bond in terms of quantum mechanics; these are

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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 this VB-MO rivalry is still alive

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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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theories in describing various chemical phenomena. This Talmudic approach of conceptual tension is a universal characteristic of any branch of evolving wisdom. As such, Mansoor's book would be of great utility for chemistry

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teachers to examine how can they become more effective teachers by recognizing the importance of conceptual tension". Sason Shaik Saeree K. and Louis P. Fiedler Chair in Chemistry Director, The Lise Meitner-Minerva Center for

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*Computational Quantum Chemistry,
The Hebrew University of
Jerusalem, ISRAEL*

*This book discusses the roles of
nanostructures and nanomaterials
in the development of battery
materials for state-of-the-art*

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electrochemical energy storage systems, and provides detailed insights into the fundamentals of why batteries need nanostructures and nanomaterials. It explores the advantages offered by nanostructure electrode materials,

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the challenges of using nanostructured materials in batteries, as well as the rational design of nanostructures and nanomaterials to achieve optimal battery performance. Further, it closely examines the latest

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advances in the application of nanostructures and nanomaterials for future rechargeable batteries, including high-energy and high-power lithium ion batteries, lithium metal batteries (Li-O₂, Li-S, Li-Se, etc.), all-solid-state batteries, and

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other metal batteries (Na, Mg, Al, etc.). It is a valuable reference resource for readers interested in or involved in research on energy storage, energy materials, electrochemistry and nanotechnology.

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*Evolving Nature of Objectivity in the
History of Science and its
Implications for Science Education
Principles of Qualitative Inorganic
Analysis: Precipitation, Separation
and Identification of Cations
Global Atmospheric Chemical*

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Change

Molecular Physical Chemistry for

Engineering Applications

Basic Concepts and Applications

Surface Chemistry of Carbon

Capture

September 07-08, 2017 Paris,

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France Key Topics :
Environmental and Occupational health, Environmental Hazards and Human Health, Environmental Toxicology and Health, Environmental sciences and Pollution Research, Environmental Health and Non Communicable

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Diseases, Environmental Health and Biomedical Waste, Environmental Health and Engineering, Climate Change and Biodiversity, Climate Change and Public Health, Global Climate Change and Health, Climate Change and Water Born Diseases,

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Climate Change and Zoonotic Diseases, Climate Change and Food Security, Climate Change and Mental Health, Climate Change and Infectious Diseases, Climate Change and Sustainable Goals, Climate Change and Vector Born Diseases, Climate change and

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Nutrition, Climate Change and
Agriculture,

The principal focus of this book is
the physical processes in the
World Ocean which regulate the
interannual-to-multidecadal natural
variability of the climate system,
and some key atmospheric and

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marine manifestations of this variability. It analyses a number of Atlantic and Indo-Pacific signals, and describes their regional atmospheric and marine manifestations. The role of the Ocean in the recent hiatus of global warming and the probability

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of abrupt climate change due to thermohaline catastrophe are also assessed. The book pays special attention to the change of parameters of synoptic atmospheric disturbances over the Northern Hemisphere and its sub-regions in different phases of the

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natural quasi-periodical climatic signals. It will appeal to oceanographers, climatologists, meteorologists, hydrologist, geographers and the general reader interested in the problem of climate change all over the globe, especially with regards to Eastern

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Europe and the Black Sea region. The earth will eventually be renewed and receive its paradisiacal glory. But how will our current world ever become the heaven of our dreams? The Lord is already on it; and, as the essays in this book provocatively propose,

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He ' s following good engineering principles. Joseph Fielding Smith said, regarding inventions in these latter days, “ The inspiration of the Lord has gone out and takes hold of the minds of men, though they know it not, and they are directed by the Lord. In this manner he

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brings them into his service. ” If there is “ no such thing as immaterial matter, ” and “ all spirit is matter, ” then what are the implications for such standard theological principles as creation, human progression, free will, transfiguration, resurrection, and

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immortality? In eleven stimulating essays, Mormon engineers probe gospel possibilities and future vistas dealing with human nature, divine progression, and the earth's future. Richard Bushman poses a vision-expanding proposal: "The end point of engineering

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knowledge may be divine knowledge. Mormon theology permits us to think of God and humans as collaborators in bringing to pass the immortality and eternal life of man. Engineers may be preparing the way for humans to act more like gods in

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managing the world. ”

This book argues that the traditional image 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

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science really works. Besides giving a theoretical framework based on Feyerabend's philosophy of science, the book offers criteria that can help readers to evaluate and understand research reported in important international science education

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journals, with respect to Feyerabend ' s epistemological anarchism. The book includes an evaluation of general chemistry and physics textbooks. Most science curricula and textbooks provide the following advice to students: Do not allow theories in

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contradiction with observations, and all scientific theories must be formulated inductively based on experimental facts. Feyerabend questioned this widely prevalent premise of science education in most parts of the world, and in contrast gave the following advice:

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Scientists can accept a hypothesis despite experimental evidence to the contrary and scientific theories are not always consistent with all the experimental data. No wonder Feyerabend became a controversial philosopher and was considered to be against

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rationalism and anti-science. Recent research in philosophy of science, however, has shown that most of Feyerabend's philosophical ideas are in agreement with recent trends in the 21st century. Of the 120 articles from science education

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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 works. Furthermore, it has been shown that Feyerabend could even be considered as a perspectival

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realist. Among other aspects, Feyerabend emphasized that in order to look for breakthroughs in science one does not have to be complacent about the truth of the theories but rather has to look for opportunities to “break rules” or “violate categories.” Mansoor Niaz

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carefully analyses references to Feyerabend in the literature and displays the importance of Feyerabend ' s philosophy in analyzing, historical episodes. Niaz shows through this remarkable book a deep understanding to the essence of science. - Calvin

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Kalman, Concordia University, Canada In this book Mansoor Niaz explores the antecedents, context and features of Feyerabend ' s work and offers a more-nuanced understanding, then reviews and considers its reception in the science education and philosophy

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of science literature. This is a valuable contribution to scholarship about Feyerabend, with the potential to inform further research as well as science education practice.- David Geelan, Griffith University, Australia
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delineates the surface chemistry of this process. Mankind is dependent on energy from gas, oil, coal, atomic energy, and various other sources. In all fossil fuel combustion processes, carbon dioxide (CO_2) is produced (ca. 25 Gt/year). In the

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past few decades, we have observed a constant increase in CO₂ content in the air (currently ca. 400 ppm [0.04%]). This book discusses the technology related to carbon (i.e., CO₂) capture and sequestration (CCS) from fossil fuel energy plants,

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which is considered an important means of CO₂ control. It also covers the adsorption/absorption processes of CO₂ on solids and similar procedures to help address growing climate change concerns.

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