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Appropriate for 2-semester or 3-quarter general chemistry courses. General Chemistry: Principles and Modern Applications is recognized for its superior problems, lucid writing, and precision of argument. This edition introduces a number of innovative features—including new Feature Problems, new follow-up Practice Exercises to accompany every in-chapter Example, and a number of new Focus On application boxes.

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Comprehensive Coordination Chemistry II (CCC II) is the sequel to what has become a classic in the field, Comprehensive Coordination Chemistry, published in 1987. CCC II builds on the first and surveys new developments authoritatively in over 200 newly commissioned chapters, with an emphasis on current trends in biology, materials science and other areas of contemporary scientific interest.

"Atoms First seems to be the flavor of the year in chemistry textbooks, but many of them seem to be little more than rearrangement of the

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chapters. It takes a master like McQuarrie to go back to the drawing board and create a logical development from smallest to largest that makes sense to students."---Hal Harris, University of Missouri-St. Louis "McQuarrie's book is extremely well written, the order of topics is logical, and it does a great job with both introductory material and more advanced concepts. Students of all skill levels will be able to learn from this book."---Mark Kearley, Florida State University This new fourth edition of General Chemistry takes an atoms-first approach from beginning to end. In the

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tradition of McQuarrie's many previous works, it promises to be another ground-breaking text. This superb new book combines the clear writing and wonderful problems that have made McQuarrie famous among chemistry professors and students worldwide. Presented in an elegant design with all-new illustrations, it is available in a soft-cover edition to offer professors a fresh choice at an outstanding value. Student supplements include an online series of descriptive chemistry Interchapters, a Student Solutions Manual, and an optional state-of-the-

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art Online Homework program. For adopting professors, an Instructor's Manual and a CD of the art are also available.

Chemistry 2e

The Publishers' Trade List Annual

Principles and Applications of Organic Light Emitting Diodes (OLEDs)

Chemistry For Dummies

General chemistry

Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry,

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and biological science.

Research in science education has recognized the importance of history and philosophy of science (HPS). Nature of science (NOS) is considered to be an essential part of HPS with important implications for teaching science. The role played by textbooks in developing students' informed conceptions of NOS has been a source of considerable interest for science educators. In some parts of the world, textbooks become the curriculum and determine to a great extent what is taught and learned in the classroom. Given this background and interest, this monograph has evaluated NOS in university level general chemistry textbooks published in U.S.A. Most textbooks in this study provided

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little insight with respect to the nine criteria used for evaluating NOS. Some of the textbooks, however, inevitably refer to HPS and thus provide guidelines for future textbooks. A few of the textbooks go into considerable detail to present the atomic models of Dalton, Thomson, Rutherford, Bohr and wave mechanical to illustrate the tentative nature of scientific theories --- an important NOS aspect. These results lead to the question: Are we teaching science as practiced by scientists? An answer to this question can help us to understand the importance of NOS, by providing students an HPS-based environment, so that they too (just like the scientists) feel the thrill and excitement of discovering new things. This monograph

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provides students and teachers guidelines for introducing various aspects of NOS, based on historical episodes.

The Molecule on the Front Cover is Paclitaxel, C₄₇H₅₁NO₁₄ a chemotherapy drug that has been successful in treating breast, lung, and ovarian cancer. It is extracted from the bark of the Pacific Yew tree (*Taxus brevifolia*).

Unfortunately, the bark of a 100-year-old Pacific Yew tree yields about 3 kg of bark and only 300 mg of paclitaxel, barely enough for a single dose of the drug (Taxol). The synthesis of this molecule engaged the attention of chemists for more than 20 years until finally, in 1994, chemists from Florida State University and from the University of California (San Diego)

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announced independently that they were able to synthesize it from simpler and readily available starting materials. A major challenge in the synthesis of paclitaxel is getting the spatial arrangement of atoms around 11 of the carbon atoms just right. These 11 carbon atoms are identified in the ball-and-stick structure by green or purple circles. If the synthesis is not done carefully, up to 2048 different possible paclitaxel-like structures could be obtained, but only one is known to have the desired anti-tumor activity. Because chemists can now synthesize paclitaxel, it is possible for researchers to explore how it works and design new chemotherapeutic drugs that are safer and more effective.

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**Advanced Inorganic Chemistry
Chalcogenide-Based
Nanomaterials as Photocatalysts
Forthcoming Books
Environmental Inorganic Chemistry
for Engineers
Characterization, Design, and
Electrocatalysis**

*Chemistry For Dummies,
2nd Edition*

*(9781119293460) was
previously published as
Chemistry For Dummies,
2nd Edition*

*(9781118007303). While
this version features a
new Dummies cover and
design, the content is
the same as the prior
release and should not*

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be considered a new or updated product. See how chemistry works in everything from soaps to medicines to petroleum We're all natural born chemists. Every time we cook, clean, take a shower, drive a car, use a solvent (such as nail polish remover), or perform any of the countless everyday activities that involve complex chemical reactions we're doing chemistry! So why do so many of us desperately resist learning

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chemistry when we're young? Now there's a fun, easy way to learn basic chemistry. Whether you're studying chemistry in school and you're looking for a little help making sense of what's being taught in class, or you're just into learning new things, Chemistry For Dummies gets you rolling with all the basics of matter and energy, atoms and molecules, acids and bases, and much more! Tracks a typical chemistry course, giving

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*you step-by-step lessons
you can easily grasp
Packed with basic
chemistry principles and
time-saving tips from
chemistry professors
Real-world examples
provide everyday context
for complicated topics
Full of modern, relevant
examples and updated to
mirror current teaching
methods and classroom
protocols, Chemistry For
Dummies puts you on the
fast-track to mastering
the basics of chemistry.
The most trusted general
chemistry text in Canada*

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is back in a thoroughly revised 11th edition. General Chemistry: Principles and Modern Applications, is the most trusted book on the market recognized for its superior problems, lucid writing, and precision of argument and precise and detailed and treatment of the subject. The 11th edition offers enhanced hallmark features, new innovations and revised discussions that that respond to key market needs for detailed and

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modern treatment of organic chemistry, embracing the power of visual learning and conquering the challenges of effective problem solving and assessment. Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. Students, if interested in purchasing this title with MasteringChemistry, ask your instructor for the correct package ISBN and Course ID.

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of argument. This updated

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and expanded edition retains the popular and innovative features of previous editions—including Feature Problems, follow-up Integrative and Practice Exercises to accompany every in-chapter Example, and Focus On application boxes, as well as new Keep in Mind marginal notes. Topics covered include atoms and the atomic theory, chemical compounds and reactions, gases, Thermochemistry, electrons in atoms,

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*chemical bonding,
liquids, solids,
and intermolecular
forces, chemical
kinetics, principles of
chemical equilibrium,
acids and bases,
electrochemistry,
representative
and transitional
elements, and nuclear
and organic chemistry.
For individuals
interested in a broad
overview of chemical
principles
and applications
Chemical Fate and
Transport in the*

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Environment

Comprehensive

Coordination Chemistry

II

Principles and Modern

Applications, 9th Ed.,

Petrucci ... [et Al.]

Instructor's Resource

Manual [for] Experiments

in General Chemistry

Student Study Guide to

Accompany Petrucci's

General Chemistry, 3rd.

Ed

Carefully crafted to provide a

comprehensive overview of

the chemistry of water in the

environment, Water

Chemistry: Green Science and

Technology of Nature's Most Renewable Resource
examines water issues within the broad framework of sustainability, an issue of increasing importance as the demands of Earth's human population threaten to overwhelm the planet's carrying capacity. Renowned environmental author Stanley Manahan provides more than just basic coverage of the chemistry of water. He relates the science and technology of this amazing substance to areas essential to sustainability science, including environmental and

green chemistry, industrial ecology, and green (sustainable) science and technology. The inclusion of a separate chapter that comprehensively covers energy, including renewable and emerging sources, sets this book a part. Manahan explains how the hydrosphere relates to the geosphere, atmosphere, biosphere, and anthrosphere. His approach views Planet Earth as consisting of these five mutually interacting spheres. He covers biogeochemical cycles and the essential role of water in these basic cycles

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of materials. He also defines environmental chemistry and green chemistry, emphasizing water's role in the practice of each. Manahan highlights the role of the anthrosphere, that part of the environment constructed and operated by humans. He underscores its overwhelming influence on the environment and its pervasive effects on the hydrosphere. He also covers the essential role that water plays in the sustainable operation of the anthrosphere and how it can be maintained in a manner that will enable it to operate in harmony with the environment

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for generations to come. Written at an intermediate level, this is an appropriate text for the study of current affairs in environmental chemistry. It provides a review and grounding in basic and organic chemistry for those students who need it and also fills a niche for an aquatic chemistry book that relates the hydrosphere to the four other environmental spheres. This document consists of two chapters from the eBook Understanding Physical Geography: Chapter 3: Matter, Energy and the Universe and Chapter 4: Solar Radiation and

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the Earth. This eBook was written for students taking introductory Physical Geography taught at a college or university. For the chapters currently available on Google Play presentation slides (Powerpoint and Keynote format) and multiple choice test banks are available for Professors using my eBook in the classroom. Please contact me via email at Michael.Pidwirny@ubc.ca if you would like to have access to these resources. The various chapters of the Google Play version of Understanding Physical Geography are FREE

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Safari browsers.

Nanotechnology provides tools for creating functional materials, devices, and systems by controlling materials at the atomic and molecular scales and making use of novel properties and phenomena. Nanotechnology-enabled sensors find applications in several fields such as health and safety, medicine, process control and diagnostics. This book provides the reader with information on how nanotechnology enabled sensors are currently being used and how they will be

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***used in the future in such
diverse fields as
communications, building and
facilities, medicine, safety, and
security, including both
homeland defense and military
operations.***

***Part 2. Matter, Energy, and Our
Planet***

***Principles, Patterns, and
Applications***

***Principles and Modern
Applications***

Engineering Chemistry

***The British Library General
Catalogue of Printed Books
1976 to 1982***

**Nanomaterials for Direct
Alcohol Fuel Cells**

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explains nanomaterials and nanocomposites as well as the characterization, manufacturing, and design of alcohol fuel cell applications. The advantages of direct alcohol fuel cells (DAFCs) are significant for reliable and long-lasting portable power sources used in devices such as mobile phones and computers. Even though substantial improvements have been made in DAFC systems over the last decade, more effort is needed to commercialize DAFCs by producing

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durable, low-cost, and smaller-sized devices. Nanomaterials have an important role to play in achieving this aim. The use of nanotechnology in DAFCs is vital due to their role in the synthesis of nanocatalysts within the manufacturing process. Lately, nanocatalysts containing carbon such as graphene, carbon nanotubes, and carbon nanocoils have also attracted much attention. When compared to traditional materials, carbon-based materials have unique advantages,

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such as high corrosion resistance, better electrical conductivity, and less catalyst poisoning. This book also covers different aspects of nanocomposites fabrication, including their preparation, design, and characterization techniques for their fuel cell applications. This book is an important reference source for materials scientists, engineers, energy scientists, and electrochemists who are seeking to improve their understanding of how

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nanomaterials are being used to enhance the efficiency and lower the cost of DAFCs. Shows how nanomaterials are being used for the design and manufacture of DAFCs

Explores how nanotechnology is being used to enhance the synthesis and catalysis processes to create the next generation of fuel cells Assesses the major challenges of producing nanomaterial-based DAFCs on an industrial scale

General

Chemistry Principles and Modern

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Applications
Prentice Hall

Africa's dire need to industrialize is universally acknowledged and it is evident that the continent's vast mineral resources can catalyze that industrialization. This requires the promotion of local beneficiation and value addition of minerals to yield materials on which modern Africa's industry and society can rely. This book is, therefore, about transforming Africa's comparative advantages in minerals into the continent's competitive

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edge regarding materials. Mineral beneficiation and value addition form the basis and provide opportunities for mineral-driven Africa's industrialization. The scope of the book is three-fold with inter-connected relationships: Information, Technical, and Policy oriented. It will be a useful reference material for mining undergraduate students on beneficiation and value addition of each of the minerals found in Africa. The book, while presenting a broad overview of

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beneficiation and value addition of Africa's minerals, provides crucial starting material for postgraduate research students and R&D institutions who wish to delve into more advanced methods of extraction and utilization of mineral-derived materials that are in Africa for the purpose of industrialization of the continent.

Nature of Science in
General Chemistry
Textbooks

General Chemistry
Affordability of College
Textbooks: Textbook Prices

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Have Risen Significantly
in the Last Four Years,
but Some Strategies May
Help to Control These
Costs for Students

Introduction to the
Chemistry of Food
Green Science and
Technology of Nature's
Most Renewable Resource

Chemical Fate and Transport in
the Environment, Fourth Edition
explains the fundamental
principles of mass transport,
chemical partitioning, and
chemical/biological
transformations in surface
waters, in soil and groundwater,
and in air. Each of these three
major environmental media is

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introduced by descriptive overviews, followed by a presentation of the controlling physical, chemical, and biological processes. The text emphasizes intuitively based mathematical models for chemical transport and transformations in the environment and serves both as a textbook for senior undergraduate and graduate courses in environmental science and engineering, and as a standard reference for environmental practitioners. Following on the previous edition, which won a 2015 Textbook Excellence Award (Texty) from The Text and

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Academic Authors Association, this edition expands the discussion of applications for sustainability, adds coverage of the hyperheic zone discussion in Chapter 3, highlights the relationships between chemical structures and properties, and includes new and/or previously underestimated classes of pollutants, such as PCPs, pfos, pfoa, microplastics, microfibers, and nanoparticles. Additionally, it updates tables, figures, and references and includes worked problems and exercises ad the end of each chapter. Includes many worked examples and extensive exercises at the end of each chapter, as well as a

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solutions manual for instructors
Illustrates the interconnections,
similarities, and contrasts among
the three major environmental
media: surface waters,
groundwater, and the
atmosphere Discusses and
builds upon fundamental
concepts, thereby constructing a
foundation upon which students
can realistically address
environmental problems as well
as proceed to more advanced
studies

Although GC-MS (gas
chromatography-mass
spectrometry) finds applications
in fields as diverse as the food
processing industry, medicine,
pharmacology, and

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environmental analysis, the few works that are dedicated to this use of mass spectrometry are generally highly complex and theoretical. Emphasizing the practical aspects of GC-MS, without neglecting the fundamental theory, Introduction to GC-MS Coupling addresses both novice and experienced users of this technique. It presents GC-MS in a clear, instructive way and proposes solutions for the difficulties classically encountered by users. The book begins with the core principles of gas chromatography and its specific uses with MS detectors. It discusses generalities of mass

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spectrometry, including the various types of MS detectors and insight into the vacuum necessary for efficient operation. Chapters cover the types of analyzers used in GC-MS and their functioning principles, with a focus on the commonly used quadrupolar analyzers, as well as the implementation, advantages, and limits of various modes of acquisition in GC-MS. The text also compares performance and limitations of quadrupolar analyzers. The author includes a full chapter on quantification using GC-MS, a topic that can be puzzling for many chemists. Encouraging a critical approach to databases, he compares

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laboratory-made and commercial mass spectra databases, and describes a database research algorithm. The final chapter examines mass spectra interpretation, covering chemistry concepts such as inductive and mesomeric effects required to understand dissociation pathways, and presents a global strategy for mass spectra interpretation.

Advanced Inorganic Chemistry: Applications in Everyday Life connects key topics on the subject with actual experiences in nature and everyday life.

Differing from other foundational texts with this emphasis on applications and examples, the

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text uniquely begins with a focus on the shapes (geometry) dictating intermolecular forces of attractions, leading to reactivity between molecules of different shapes. From this foundation, the text explores more advanced topics, such as: Ligands and Ligand Substitution Processes with an emphasis on Square-Planar Substitution and Octahedral Substitution Reactions in Inorganic Chemistry and Transition Metal Complexes, with a particular focus on Crystal-Field and Ligand-Field Theories, Electronic States and Spectra and Organometallic, Bioinorganic Compounds, including Carboranes and

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Metallacarboranes and their applications in Catalysis, Medicine and Pollution Control. Throughout the book, illustrative examples bring inorganic chemistry to life. For instance, biochemists and students will be interested in how coordination chemistry between the transition metals and the ligands has a direct correlation with cyanide or carbon monoxide poisoning (strong-field Cyanide or CO ligand versus weak-field Oxygen molecule). Engaging discussion of key concepts with examples from the real world Valuable coverage from the foundations of chemical bonds and stereochemistry to advanced

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topics, such as organometallic,
bioinorganic, carboranes and
environmental chemistry

Uniquely begins with a focus on
the shapes (geometry) dictating
intermolecular forces of
attractions, leading to reactivity
between molecules of different
shapes

principles and modern
applications

Evolving Nature of Objectivity in
the History of Science and its
Implications for Science
Education

Nanomaterials for Direct Alcohol
Fuel Cells

Principles and Modern
Applications, 9th Ed., Petrucci ...

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[et Al.].

Introduction to the Chemistry of Food describes the molecular composition of food and the chemistry of its components. It provides students with an understanding of chemical and biochemical reactions that impact food quality and contribute to wellness. This innovative approach enables students in food science, nutrition and culinology to better understand the role of chemistry in food.

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Specifically, the text provides background in food composition, demonstrates how chemistry impacts quality, and highlights its role in creating novel foods. Each chapter contains a review section with suggested learning activities. Text and supplemental materials can be used in traditional face-to-face, distance, or blended learning formats. Describes the major and minor

components of food
Explains the functional
properties contributed
by proteins,
carbohydrates and lipids
in food **Explores the**
chemical and enzymatic
reactions affecting food
attributes (color,
flavor and nutritional
quality) **Describes the**
gut microbiome and
influence of food
components on its
microbial population
Reviews major food
systems and novel
sources of food protein
Chalcogenide-Based

Nanomaterials as Photocatalysts deals with the different types of chalcogenide-based photocatalytic reactions, covering the fundamental concepts of photocatalytic reactions involving chalcogenides for a range of energy and environmental applications. Sections focus on nanostructure control, synthesis methods, activity enhancement strategies, environmental applications, and perspectives of

***chalcogenide-based
nanomaterials. The book
offers guidelines for
designing new
chalcogenide-based
nanoscale photocatalysts
at low cost and high
efficiency for efficient
utilization of solar
energy in the areas of
energy production and
environment remediation.
Provides information on
the development of novel
chalcogenide-based
nanomaterials Outlines
the fundamentals of
chalcogenides-based
photocatalysis Includes***

***techniques for
heterogeneous catalysis
based on chalcogenide-
based nanomaterials
Environmental Inorganic
Chemistry for Engineers
explains the principles
of inorganic contaminant
behavior, also applying
these principles to
explore available
remediation
technologies, and
providing the design,
operation, and
advantages or
disadvantages of the
various remediation
technologies. Written***

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for environmental engineers and researchers, this reference provides the tools and methods that are imperative to protect and improve the environment. The book's three-part treatment starts with a clear and rigorous exposition of metals, including topics such as preparations, structures and bonding, reactions and properties, and complex formation and sequestering. This coverage is followed by

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a self-contained section concerning complex formation, sequestering, and organometallics, including hydrides and carbonyls. Part Two, Non-Metals, provides an overview of chemical periodicity and the fundamentals of their structure and properties. Clearly explains the principles of inorganic contaminant behavior in order to explore available remediation technologies Provides the design, operation, and

*advantages or
disadvantages of the
various remediation
technologies Presents a
clear exposition of
metals, including topics
such as preparations,
structures, and bonding,
reaction and properties,
and complex formation
and sequestering
Chemistry
Minerals in Africa
Polymer Selection for
Electronic, Mechatronic,
and Optoelectronic
Systems
Student Mediapak [to
Accompany] General*

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Chemistry

Part 2 of the eBook

***Understanding Physical
Geography***

Principles and Applications of Organic Light Emitting Diodes (OLEDs) explores the ways in which the development of organic semiconductor materials is opening up new applications in electronic and optoelectronic luminescent devices. The book begins by covering the principles of luminescence and the luminescent properties of organic semiconductors. It then covers the development of luminescent materials for OLEDs, discussing the

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advantages and disadvantages of organic versus inorganic luminescent materials. The fabrication and characterization of OLEDs is also covered in detail, including information on, and comparisons of, vacuum deposition and solution techniques. Finally, applications of OLEDs are explored, including OLEDs in solid-state lighting, colored lighting, displays and potential future applications, such as ultra-thin and flexible technologies. This book is an excellent resource both for experts and newcomers to the field of organic optoelectronics and OLEDs.

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It is ideal for scientists working on optical devices, lighting, display and imaging technologies, and for all those engaged in research in photonics, luminescence and optical materials. Provides a one-stop guide to OLED technology for the benefit of newcomers to the field of organic optoelectronics. Comprehensively covers the luminescent properties of organic semiconductors and their development into OLED materials. Offers practical information on OLED fabrication and their applications in solid-state lighting and displays, making this essential

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reading for optoelectronics
engineers and materials
scientists

"General Chemistry:
Principles and Modern
Applications" is recognized
for its superior problems,
lucid writing, precision of
argument, and precise and
detailed treatment of the
subject. Popular and
innovative features include
"Feature Problems," follow-
up A and B "Practice
Exercises" to accompany
every in-chapter "Example,
"Focus On" application
boxes, and new "Keep in
Mind" marginal notes. Every
new copy of the Ninth Edition
comes with a Student
MediaPak, which includes

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systems using novel polymers. The book classifies polymer families, types, complexes, composites, nanocomposites, compounds, and small molecules while also providing an introduction to the fundamental principles of polymers and electronics. Features information on concepts and optimized types of electronics and a classification system of electronic polymers, including piezoelectric and pyroelectric, optoelectronic, mechatronic, organic electronic complexes, and more. The book is designed to help readers select the optimized

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material for structuring their organic electronic system. Chapters discuss the most common properties of electronic polymers, methods of optimization, and polymeric-structured printed circuit boards. The polymeric structures of optoelectronics and photonics are covered and the book concludes with a chapter emphasizing the importance of polymeric structures for packaging of electronic devices. Provides key identifying details on a range of polymers, micro-polymers, nano-polymers, resins, hydrocarbons, and oligomers Covers the most common electrical,

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electronic, and optical
properties of electronic
polymers Describes the
underlying theories on the
mechanics of polymer
conductivity Discusses
polymeric structured printed
circuit boards, including
their rapid prototyping and
optimizing their polymeric
structures Shows
optimization methods for
both polymeric structures of
organic active electronic
components and organic
passive electronic
components
Scientific and Technical
Books and Serials in Print
From Biology to
Nanotechnology
Instructor's Manual [for]

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Experiments in General
Chemistry

Introduction to GC-MS
Coupling

Books in Print

This book explores the evolving nature of objectivity in the history of science and its 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 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 objectivity or the scientific method, but rather controversies, alternative interpretations of data, ambiguity, and uncertainty. Although objectivity is not synonymous with truth or 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 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 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 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 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.

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

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textbooks; it's fascinating how certain perspectives 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 Chemistry

The book has been written in simple language to help self study. The concepts have been explained with the help of equations and diagrams. The diagrams have been nicely labeled for clear understanding.

Numerical examples have

been solved with systematic steps. Solved and unsolved problems have been included. Experiments prescribed for engineering chemistry course have been included. theory and principle of each experiment have been explained in detail.

Experimental producers have been written in an step wise manner. Viva voice has been discussed at the end of each experiment. Important points have been emboldened.

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