

1 FOCUS

Objectives

- 1.3.1 **Describe** how Lavoisier transformed chemistry.
- 1.3.2 **Identify** three steps in the scientific method.
- 1.3.3 **Explain** why collaboration and communication are important in science.

Guide for Reading

Build Vocabulary

Word Forms When discussing the two types of variables, explain that one meaning of *manipulate* is “to manage or control” and one meaning of *response* is “to answer or act in turn.”

Reading Strategy

Use Prior Knowledge Before students read the section, ask them what they know about the scientific method.

2 INSTRUCT

Connecting to Your World

Have students read the opening paragraph and look at the photo. Ask, **What made Fleming different from other scientists who had seen this mold?** (Fleming recognized the importance of this discovery. He assumed that the mold had released a chemical that prevented the growth of bacteria.)

Alchemy

Relate

Students who have read the Harry Potter books will be familiar with the name of one alchemist, Nicolas Flamel (1330–1414), who wrote a book about the philosopher’s stone. Alchemists believed that the philosopher’s stone could change base metals into gold.

Guide for Reading



Key Concepts

- How did alchemy lay the groundwork for chemistry?
- How did Lavoisier help to transform chemistry?
- What are the steps in the scientific method?
- What role do collaboration and communication play in science?

Vocabulary

scientific method
observation
hypothesis
experiment
manipulated variable
responding variable
theory
scientific law

Reading Strategy

Building Vocabulary After you read this section, explain the difference between a theory and a scientific law.



20 Chapter 1

Connecting to Your World

In 1928, Alexander Fleming, a Scottish scientist, noticed that a bacteria he was studying did not grow in the presence of a yellow-green mold. Other scientists had made the same observation, but Fleming was the first to recognize its importance. He assumed that the mold had released a chemical that prevented the growth of the bacteria. That chemical was penicillin, which can kill a wide range of harmful bacteria. In 1945, Fleming shared a Nobel Prize for Medicine with Howard Florey and Ernst Chain, who led the team that isolated penicillin. In this section you will study the methods scientists use to solve problems.



Alchemy

The word *chemistry* comes from alchemy. Long before there were chemists, alchemists were studying matter. Alchemy arose independently in many regions of the world. It was practiced in China and India as early as 400 B.C. In the eighth century, Arabs brought alchemy to Spain, from where it spread quickly to other parts of Europe.

Alchemy had a practical side and a mystical side. Practical alchemy focused on developing techniques for working with metals, glass, and dyes. Mystical alchemy focused on concepts like perfection. Because gold was seen as the perfect metal, alchemists were searching for a way to change other metals, such as lead, into gold. Although alchemists did not succeed in this quest, the work they did spurred the development of chemistry.

Alchemists developed the tools and techniques for working with chemicals. Alchemists developed processes for separating mixtures and purifying chemicals. They designed equipment that is still used today, including beakers, flasks, tongs, funnels, and the mortar and pestle in Figure 1.15. What they did not do was provide a logical set of explanations for the changes in matter that they observed. That task was left for chemists to accomplish.

Figure 1.15 A bowl-shaped mortar and a club-shaped pestle are used to grind or crush materials such as herbs, spices, and paint pigments. The mortar and pestle in the photograph is made of porcelain, which is a hard material.

Section Resources

Print

- [Guided Reading and Study Workbook, Section 1.3](#)
- [Core Teaching Resources, Section 1.3 Review](#)
- [Transparencies, T5–T6](#)
- [Laboratory Manual, Lab 1](#)
- [Small-Scale Chemistry Laboratory Manual, Lab 1](#)

Technology

- [Interactive Textbook with ChemASAP, Assessment 1.3](#)
- [Go Online, Section 1.3](#)

Prentice Hall Chemistry Chapter 1

W.L.F. Armarego, Christina Li Lin Chai



Prentice Hall Chemistry Chapter 1:

Prentice Hall Chemistry, 2000 *Advanced Pharmaceutics* Cherng-ju Kim, 2004-03-17 Discussing a comprehensive range of topics *Advanced Pharmaceutics Physicochemical Principles* reviews all aspects of physical pharmacy The book explains the basic mechanistic and quantitative interpretation skills needed to solve physical pharmacy related problems The author supplies a strong fundamental background and extensively covers therm **Computational Chemistry** Errol G. Lewars, 2010-11-09 This corrected second edition contains new material which includes solvent effects the treatment of singlet diradicals and the fundamentals of computational chemistry *Computational Chemistry Introduction to the Theory and Applications of Molecular and Quantum Mechanics* is an invaluable tool for teaching and researchers alike The book provides an overview of the field explains the basic underlying theory at a meaningful level that is not beyond beginners and it gives numerous comparisons of different methods with one another and with experiment The following concepts are illustrated and their possibilities and limitations are given potential energy surfaces simple and extended Hueckel methods ab initio AM1 and related semiempirical methods density functional theory DFT Topics are placed in a historical context adding interest to them and removing much of their apparently arbitrary aspect The large number of references to all significant topics mentioned should make this book useful not only to undergraduates but also to graduate students and academic and industrial researchers **Biomedical & Pharmaceutical Sciences with Patient Care Correlations** Reza Karimi, 2014-01-29 *Biomedical Pharmaceutical Sciences with Patient Care Correlations* provides a solid foundation in the areas of science that pharmacy students most need to understand to succeed in their education and career Offering a comprehensive overview of the biomedical and pharmaceutical sciences it is an ideal primary or secondary textbook for introductory courses Students can also use this text to refresh their scientific knowledge before beginning graduate study *Biomedical Pharmaceutical Sciences with Patient Care Correlations* includes 16 chapters that cover subjects ranging from cell biology and medicinal chemistry to toxicology and biostatistics It also includes clinical correlations and integrated cases Practical as well as informative this essential reference relates the subject matter to the real world of pharmacy practice to assist students throughout their graduate studies and professional careers Features Provides a comprehensive introduction to the biomedical and pharmaceutical sciences curriculum Serves as an ideal text for all introductory pharmacy courses Covers the topics that are most challenging for students Relates science to the real world of pharmacy practice Includes over 525 illustrations photos and figures *Research Anthology on Emerging Techniques in Environmental Remediation* Management Association, Information Resources, 2021-11-26 As industry develops globally environmental pollution grows to be an increasingly serious problem with each passing year While there are many things that individuals on every level of power can do to mitigate the harm done to the environment environmental remediation is a step to take to save our soil and water resources As this problem is ongoing it is essential to be knowledgeable in the emerging techniques made within the

field of environmental remediation The Research Anthology on Emerging Techniques in Environmental Remediation is a comprehensive resource on the emerging techniques and developments made within the field of environmental remediation With global contributing authors this book explores environmental remediation within diverse settings and international standards Covering topics such as pollution and contamination nanotechnology and agriculture this book is an essential reference for scientists chemists environmentalists government officials professors students researchers conservationists and academicians

The Metallurgy of Anodizing Aluminum Jude Mary Runge, 2018-02-01 In this book the history of the concepts critical to the discovery and development of aluminum its alloys and the anodizing process are reviewed to provide a foundation for the challenges achievements and understanding of the complex relationship between the aluminum alloy and the reactions that occur during anodic oxidation Empirical knowledge that has long sustained industrial anodizing is clarified by viewing the process as corrosion science addressing each element of the anodizing circuit in terms of the Tafel Equation This innovative approach enables a new level of understanding and engineering control for the mechanisms that occur as the oxide nucleates and grows developing its characteristic highly ordered structure which impact the practical function of the anodic aluminum oxide

Systematic Materials Analysis Part 2 J.H. Richardson, 2012-12-02 Systematic Materials Analysis Volume II presents a broad range of instrumental methods and approaches that will yield the desired information about a given material This book serves as a guide for the purchase of new instrumentation Organized into nine chapters this volume starts with an overview of the analytical methods on the bases of specimen limitations and information desired by using flow charts encompassing the various instruments This book then proceeds with a discussion of the specific instruments that outline the theories of operation Other chapters consider the capability of the methods for quantitative and qualitative measurements of structure texture and chemical composition This text discusses as well the selectivity and sensitivity of each method The final chapter deals with X ray photoelectron spectroscopy and provides a listing of known manufacturers of commercial ESCA Electron Spectroscopy for Chemical Analysis instrumentation Materials analysts laboratory administrator biological scientists engineers and researchers will find this book extremely useful

Reference Book for Composites Technology Stuart M. Lee, 1989-05-13 The eleven contributions comprising the first volume address topics that include the history of composites epoxy resins fiber reinforced glasses and glass ceramics for high performance applications aramid fiber reinforcements specifically Vniivlon Polyamidobenzimidazole the USSR s aramid fiber

The Chemical Bond III D. Michael P. Mingos, 2016-10-06 The series Structure and Bonding publishes critical reviews on topics of research concerned with chemical structure and bonding The scope of the series spans the entire Periodic Table and addresses structure and bonding issues associated with all of the elements It also focuses attention on new and developing areas of modern structural and theoretical chemistry such as nanostructures molecular electronics designed molecular solids surfaces metal clusters and supramolecular structures Physical and spectroscopic techniques used to determine examine and model structures fall

within the purview of Structure and Bonding to the extent that the focus is on the scientific results obtained and not on specialist information concerning the techniques themselves. Issues associated with the development of bonding models and generalizations that illuminate the reactivity pathways and rates of chemical processes are also relevant. The individual volumes in the series are thematic. The goal of each volume is to give the reader, whether at a university or in industry, a comprehensive overview of an area where new insights are emerging that are of interest to a larger scientific audience. Thus, each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years should be presented using selected examples to illustrate the principles discussed. A description of the physical basis of the experimental techniques that have been used to provide the primary data may also be appropriate if it has not been covered in detail elsewhere. The coverage need not be exhaustive in data but should rather be conceptual, concentrating on the new principles being developed that will allow the reader, who is not a specialist in the area covered, to understand the data presented. Discussion of possible future research directions in the area is welcomed. Review articles for the individual volumes are invited by the volume editors.

The Physical Basis of Biochemistry Peter R. Bergethon, 2013-03-14. The objective of this book is to provide a unifying approach to the study of biophysical chemistry for the advanced undergraduate who has had a year of physics, organic chemistry, calculus, and biology. This book began as a revised edition of *Biophysical Chemistry: Molecules to Membranes*, which Elizabeth Simons and I coauthored. That short volume was written in an attempt to provide a concise text for a one-semester course in biophysical chemistry at the graduate level. The experience of teaching biophysical chemistry to biologically oriented students over the last decade has made it clear that the subject requires a more fundamental text that unifies the many threads of modern science: physics, chemistry, biology, mathematics, and statistics. This book represents that effort. This volume is not a treatment of modern biophysical chemistry with its rich history and many controversies, although a book on that topic is also needed. *The Physical Basis of Biochemistry* is an introduction to the philosophy and practice of an interdisciplinary field in which biological systems are explored using the quantitative perspective of the physical scientist. I have three primary objectives in this volume: one, to provide a unifying picture of the interdisciplinary threads from which the tapestry of biophysical studies is woven; two, to provide an insight into the power of the modeling approach to scientific investigation; and three, to communicate a sense of excitement for the activity and wholesome argument that characterize this field of study.

Biomaterials Sujata V. Bhat, 2005. As biomaterials are used in medical devices providing needs in such diverse surgical disciplines as ophthalmology, cardiology, neuromuscular surgery, orthopedics, dentistry, etc., they must have intimate contact with patient's tissue or body fluid, providing a real physical interface which restricts developments most seriously. This book is written for those who would like to advance their knowledge of biomaterials. The subject matter of the book is divided into twelve chapters dealing with structure and relationship of biological and man-made biomaterials. The application of these materials

for various medical devices and recent developments in tissue engineering has also covered

Biochemistry Donald Voet, Judith G. Voet, 2010-11-16 The Gold Standard in Biochemistry text books Biochemistry 4e is a modern classic that has been thoroughly revised Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution Incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge

Applied Photochemistry Rachel C. Evans, Peter Douglas, Hugh D. Burrow, 2014-07-08 Applied Photochemistry encompasses the major applications of the chemical effects resulting from light absorption by atoms and molecules in chemistry physics medicine and engineering and contains contributions from specialists in these key areas Particular emphasis is placed both on how photochemistry contributes to these disciplines and on what the current developments are The book starts with a general description of the interaction between light and matter which provides the general background to photochemistry for non specialists The following chapters develop the general synthetic and mechanistic aspects of photochemistry as applied to both organic and inorganic materials together with types of materials which are useful as light absorbers emitters sensitisers etc for a wide variety of applications A detailed discussion is presented on the photochemical processes occurring in the Earth's atmosphere including discussion of important current aspects such as ozone depletion Two important distinct but interconnected applications of photochemistry are in photocatalytic treatment of wastes and in solar energy conversion Semiconductor photochemistry plays an important role in these and is discussed with reference to both of these areas Free radicals and reactive oxygen species are of major importance in many chemical biological and medical applications of photochemistry and are discussed in depth The following chapters discuss the relevance of using light in medicine both with various types of phototherapy and in medical diagnostics The development of optical sensors and probes is closely related to diagnostics but is also relevant to many other applications and is discussed separately Important aspects of applied photochemistry in electronics and imaging through processes such as photolithography are discussed and it is shown how this is allowing the increasing miniaturisation of semiconductor devices for a wide variety of electronics applications and the development of nanometer scale devices The final two chapters provide the basic ideas necessary to set up a photochemical laboratory and to characterise excited states This book is aimed at those in science engineering and medicine who are interested in applying photochemistry in a broad spectrum of areas Each chapter has the basic theories and methods for its particular applications and directs the reader to the current important literature in the field making Applied Photochemistry suitable for both the novice and the experienced photochemist

Adsorption and the Gibbs Surface Excess D. Chattoraj, 2012-12-06 The subject matter of this book is not entirely new in that much has been written about the state of the interfacial chemistry in other textbooks However the authors have found that there is really a need for a book which can lead an investigator a student or a beginner through the in depth understanding and descriptions involved in the derivations and usage of the adsorption equations based on the

unified concept of the Gibbs surface excess The derivation of the original Gibbs equation for the liquid interface has been amplified with reformulations and criticisms Attempts have been frequently made to relate the surface excess quantities with the thermodynamic properties of the physically defined interfacial phase In the last two decades useful applications of the Gibbs equations have been made for the study of adsorption at solid liquid as well as liquid gas interfaces formed in the presence of the multicomponent solutions in the bulk These recent treatments become useful for the experimental studies of the adsorption of electrolytes and interfacial properties related to neutral and charged monolayers The consistency of the experimental results with those to be expected from the theories of the electrical double layer needs careful examination An attempt has been made to present in a single volume all these developments based on the unified concept of the Gibbs surface excess The study of the adsorption from solution is of considerable importance in the field of biology and in many other branches of applied science

Introduction to Polymer Science and Chemistry Manas Chanda, 2006-03-28 With such a wide diversity of properties and applications is it any wonder that industry and academia have such a fascination with polymers A solid introduction to such an enormous and important field is critical to the modern polymer scientist to be but most of the available books do not stress practical problem solving or include recent advances Serving as the polymer book for the new millennium Introduction to Polymer Science and Chemistry A Problem Solving Approach unites the fundamentals of polymer science and polymer chemistry in a seamless presentation Emphasizing polymerization kinetics the author uses a unique question and answer approach when developing theory or introducing new concepts The first four chapters introduce polymer science focusing on physical and molecular properties solution behavior and molecular weights The remainder of the book explores polymer chemistry devoting individual self contained chapters to the main types of polymerization reactions condensation free radical ionic coordination and ring opening It introduces recent advances such as supramolecular polymerization hyperbranching photoemulsion polymerization the grafting from polymerization process polymer brushes living controlled radical polymerization and immobilized metallocene catalysts With numerical problems accompanying the discussion at every step along with numerous end of chapter exercises Introduction to Chemical Polymer Science A Problem Solving Approach is an ideal introductory text and self study vehicle for mastering the principles and methodologies of modern polymer science and chemistry

Advanced Organic Chemistry Francis A. Carey, 2012-12-06 **Molecular Aggregation** Angelo Gavezzotti, 2007 This title provides a brief but accurate summary of all the basic ideas theories methods and conspicuous results of structure analysis and molecular modelling of the condensed phases of organic compounds

Biochemistry, International Adaptation Donald Voet, Judith G. Voet, 2021 The Gold Standard in Biochemistry text books Biochemistry 4e is a modern classic that has been thoroughly revised Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution It incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge

Purification of Laboratory

Chemicals W.L.F. Armarego, Christina Li Lin Chai, 2013 A best seller since 1966 Purification of Laboratory Chemicals keeps engineers scientists chemists biochemists and students up to date with the purification of the chemical reagents with which they work the processes for their purification and guides readers on critical safety and hazards for the safe handling of chemicals and processes The Seventh Edition is fully updated and provides expanded coverage of the latest commercially available chemical products and processing techniques safety and hazards over 200 pages of coverage of new commercially available chemicals since the previous edition The only comprehensive chemical purification reference a market leader since 1966 Amarego delivers essential information for research and industrial chemists pharmacists and engineers it will be the most commonly used reference book in any chemical or biochemical laboratory MDPI Journal An essential lab practice and procedures manual Improves efficiency results and safety by providing critical information for day to day lab and processing work Improved clear organization and new indexing delivers accurate reliable information on processes and techniques of purification along with detailed physical properties The Sixth Edition has been reorganised and is fully indexed by CAS Registry Numbers compounds are now grouped to make navigation easier literature references for all substances and techniques have been added ambiguous alternate names and cross references removed new chemical products and processing techniques are covered hazards and safety remain central to the book **Biochemistry** John T.

Tansey, 2020-07-15 Biochemistry An Integrative Approach with Expanded Topics is addressed to premed biochemistry and life science majors taking a two semester biochemistry course This version includes all 25 chapters offering a holistic approach to learning biochemistry An integrated skill focused approach to the study of biochemistry and metabolism Biochemistry integrates subjects of interest to undergraduates majoring in premed biochemistry life science and beyond while preserving a chemical perspective Respected biochemistry educator John Tansey takes a unique approach to the subject matter emphasizing problem solving and critical thinking over rote memorization Key concepts such as metabolism are introduced and then revisited and cross referenced throughout the text to establish pattern recognition and help students commit their new knowledge to long term memory As part of WileyPLUS Biochemistry includes access to video walkthroughs of worked problems interactive elements and expanded end of chapter problems with a wide range of subject matter and difficulty Students will have access to both qualitative and quantitative worked problems and videos model the biochemical reasoning students will need to master This approach helps students learn to analyze data and make critical assessments of experiments key skills for success across scientific disciplines Introduces students in scientific majors to the basics of biochemistry and metabolism Integrates and synthesizes topics throughout the text allowing students to learn through repetition and pattern recognition Emphasizes problem solving and reasoning skills essential to life sciences including data analysis and research assessment Provides access to video walkthroughs of worked problems interactive features and additional study material through WileyPLUS This volume covers DNA RNA gene regulation synthetic proteins omics plant

biochemistry and more With this text students studying a range of disciplines are empowered to develop a lasting foundation in biochemistry and metabolism that will serve them as they advance through their careers

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