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Chapter 17

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Contains discussion, illustrations, and exercises aimed at overcoming common misconceptions; emphasizes on models prevails; and covers topics such as: chemical foundations, types of chemical reactions and solution stoichiometry, electrochemistry, and organic and biological molecules.

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Features of the second edition include Hierarchical instruction with increasing levels of detail: Content requiring deeper levels of theory is clearly delineated in separate sections and chapters Early introduction to the overall perspective of composite systems like distillation columns, reactive processes, and biological systems Learning objectives, problem-solving strategies for energy balances and phase equilibria, chapter summaries, and “important

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equations" for every
chapter Extensive
practical examples,
especially coverage of non-
ideal mixtures, which
include water
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oxygenated fuels, hydrogen
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Approach focuses
exclusively on the core
concepts of general
chemistry without
sacrificing depth or
relevance. Tro's
unprecedented two- and
three-column problem-
solving approach is used
throughout to give
students sufficient
practice in this*

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fundamental skill. A unique integration of macroscopic, molecular, and symbolic illustrations helps students to visualize the various dimensions of chemistry; Tro's engaging writing style captures student's attention with relevant applications. The Second Edition offers a wealth of new and revised problems, approximately 50 new conceptual connections, an updated art program throughout, and is available with MasteringChemistry®, the most advanced online

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formulas (symbolic), the world around them (macroscopic), and the atoms and molecules that make up the world (molecular). **KEY TOPICS:** Units of Measurement for Physical and Chemical Change; Atoms and Elements; Molecules, Compounds, and Nomenclature; Chemical Reactions and Stoichiometry; Gases; Thermochemistry; The Quantum-Mechanical Model of the Atom; Periodic Properties of the Elements; Chemical Bonding I: Lewis Theory; Chemical Bonding II: Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory; Liquids, Solids, and Intermolecular Forces; Solutions; Chemical Kinetics; Chemical Equilibrium; Acids and Bases; Aqueous Ionic Equilibrium; Gibbs Energy and Thermodynamics; Electrochemistry; Radioactivi

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**ty and Nuclear Chemistry; Organic
Chemistry I: Structures; Organic
Chemistry II:**

**Reactions; Biochemistry; Chemistry of
the Nonmetals; Metals and
Metallurgy; Transition Metals and
Coordination Compounds MARKET:
Appropriate for General Chemistry (2 -
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**"General Chemistry: Atoms First,"
Second Edition starts from the building
blocks of chemistry, the atom, allowing
the authors to tell a cohesive story that
progresses logically through molecules
and compounds to help students
intuitively follow complex concepts
more logically. This unified thread of
ideas helps students build a better
foundation and ultimately gain a deeper
understanding of chemical concepts.
Students can more easily understand
the microscopic-to-macroscopic**

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connections between unobservable atoms and the observable behavior of matter in daily life, and are brought immediately into real chemistry instead of being forced to memorize facts.

Reflecting a true atoms first perspective, the Second Edition features experienced atoms-first authors, incorporates recommendations from a panel of atoms-first experts, and follows historical beliefs in teaching chemistry concepts based and real experimental data first. This approach distinguishes this text in the market based whereby other authors teach theory first, followed by experimental data.

An Introduction to Chemical Metallurgy, Second Edition introduces the reader to chemical metallurgy, including its fundamental principles and some of their applications.

References in the text to a date and the

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author of some law or principle of physical chemistry are given for the sake of historical significance. This book is comprised of eight chapters and opens with an overview of thermodynamics, with particular emphasis on the first law of thermodynamics; the expansion of a gas; thermodynamically reversible changes; applications of thermochemistry in metallurgy; and experimental techniques in calorimetry. The following chapters focus on entropy, free energy, and chemical equilibrium; solutions and reaction kinetics; extraction and refining of metals, including refining by preferential oxidation; and corrosion and electrodeposition. Electrochemistry and interfacial phenomena are also explored, along with surface energy and surface tension, electrolytes and

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electrolysis, and reduction and oxidation potentials. This monograph is written primarily for chemists and metallurgists as well as students embarking on courses in chemical metallurgy.

Part A: Structure and Mechanisms

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Theory and Practices

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raffinate

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chemistry from the laboratory to the student's world, motivating students to learn chemistry by demonstrating how it is manifested in their daily lives. Throughout, the Fourth Edition presents a new student-friendly, step-by-step problem-solving approach that adds four steps to each worked example (Sort, Strategize, Solve, and Check). Tro's acclaimed pedagogical features include Solution Maps, Two-Column Examples, Three-Column Problem-Solving Procedures, and Conceptual Checkpoints. This proven text continues to foster student success beyond the classroom with MasteringChemistry®, the

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This package contains: Tro,
Introductory Chemistry with
MasteringChemistry® Long,
Introductory Chemistry Math
Review Toolkit

An award-winning scientist offers his unorthodox approach to childrearing: “Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions” (Amy Chua, author of *Battle Hymn of the Tiger Mother*). If you’re like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to

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parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In *Parentology*, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids

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in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time. Interactive General Chemistry meets students where they are...with a general chemistry program designed for the way

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Chemistry combines the Sapling Learning homework platform with a robust e-book with seamlessly embedded, multimedia-rich learning resources. This flexible learning environment helps students effectively and efficiently tackle chemistry concepts and problem solving. Student-centered development In addition to Macmillan's standard rigorous peer review process, student involvement was critical to the development and design of Interactive General Chemistry. Using extensive research on student study behavior and data collection on the resources and tools that most effectively promote understanding, we

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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, and biological science. Hydrometallurgy: Theory provides the necessary fundamental background to the multidisciplinary field of hydrometallurgy, presenting the tools needed to utilize the theory

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to quantitatively describe, model and control the unit operations used in hydrometallurgical plants. The book describes the development and operation of processes utilizing hydrometallurgical operations, making it a valuable resource and reference for researchers, academics, students and industry professionals. It focuses on quantitative problem-solving with many worked examples and focused problems based on Nicol's many years of experience in teaching hydrometallurgy to students, researchers and industry professionals. Helps readers master detailed chemistry and chemical engineering fundamentals that are

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required to fully engage in the field of hydrometallurgy Provides a ready reference for students, academics and practicing professionals who are confronted by a particular problem or opportunity in hydrometallurgy Features many worked problems and appropriate workshops, providing the necessary skills to tackle quantitative problems in hydrometallurgy

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Science and Technology

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Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. This digital version of Chemistry for the IB Diploma Coursebook, Second edition, comprehensively covers all the knowledge and skills students need during the Chemistry IB Diploma course, for first examination in 2016, in a reflowable format, adapting to any screen size or device. Written by renowned experts in Chemistry teaching, the text is written in an accessible style with international learners in mind. Self-assessment questions allow learners to track their progress, and exam-style questions help learners to prepare thoroughly for their examinations. Answers to all the questions

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support your students in
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Chemistry

The Central Science

Chemical Kinetics and Process Dynamics in Aquatic Systems is devoted to chemical reactions and biogeochemical processes in aquatic systems. The book provides a thorough analysis of the principles, mathematics, and analytical tools used in chemical, microbial, and reactor kinetics. It also presents a comprehensive, up-to-date description of the kinetics of important chemical processes in aquatic

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environments. Aquatic photochemistry and correlation methods (e.g., LFERs and QSARs) to predict process rates are covered. Numerous examples are included, and each chapter has a detailed bibliography and problems sets. The book will be an excellent text/reference for professionals and students in such fields as aquatic chemistry, limnology, aqueous geochemistry, microbial ecology, marine science, environmental and water resources engineering, and geochemistry. Recycling of nuclear spent fuel and reduction of its radiotoxicity by separation of long-lived radionuclides would definitely help to close the nuclear fuel cycle ensuring sustainability of the nuclear energy. Partitioning of the main radiotoxicity contributors followed by their conversion into short-lived radioisotopes is known as partitioning and transmutation strategy. To ensure efficient

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transmutation of the separated elements (minor actinides) the content of lanthanides in the irradiation targets has to be minimised. This objective can be attained by solvent extraction using highly selective ligands that are able to separate these two groups of elements from each other. The objective of this study was to develop a novel process allowing co-separation of minor actinides and lanthanides from a high active acidic feed solution with subsequent actinide recovery using just one cycle, so-called innovative SANEX process. The conditions of each step of the process were optimised to ensure high actinide separation efficiency. Additionally, screening tests of several novel lipophilic and hydrophilic ligands provided by University of Twente were performed. These tests were aiming in better understanding the influence of the extractant structural modifications onto

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An(III)/Ln(III) selectivity and
complexation properties. ...