

Chemistry A Molecular Approach Canadian Edition

The detection and measurement of the dynamic interactions of proteins within the living cell are critical to the understanding of cell physiology and pathophysiology. The field of molecular imaging of living subjects continues to expand and has seen dramatic advances in chemistry, engineering and biomedical applications. *Molecular Imaging: Principles and Practice, Second Edition* provides the first point of entry to the research for all scientists interested in this multi-disciplinary field. Molecular imaging

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is very diverse: new investigators, collaborators, and students entering this field need an authoritative reference to bring this field together. Editors Brian Ross and Sam Gambhir designed this revision precisely to fill this need. The most authoritative and effective resource available in the field, written by over 170 of the leading scientists from around the world who have evaluated and summarized the most important methods, principles, technologies and data within the field Concepts illustrated with over 600 color figures and molecular-imaging examples This edition packed with innovative science, including: Light sheet fluorescence microscopy

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(LSFM); Mass Spectrometry Imaging; Combining In vitro and in vivo diagnostics; Raman Imaging; Optogenetics; FDA approval of current imaging agents
Fully updated and rewritten by a basic scientist who is also a practicing physician, the third edition of this popular textbook remains comprehensive, authoritative and readable. Taking a receptor-based, target-centered approach, it presents the concepts central to the study of drug action in a logical, mechanistic way grounded on molecular and principles. Students of pharmacy, chemistry and pharmacology, as well as researchers interested in a better understanding of drug

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design, will find this book an invaluable resource. Starting with an overview of basic principles, Medicinal Chemistry examines the properties of drug molecules, the characteristics of drug receptors, and the nature of drug-receptor interactions. Then it systematically examines the various families of receptors involved in human disease and drug design. The first three classes of receptors are related to endogenous molecules: neurotransmitters, hormones and immunomodulators. Next, receptors associated with cellular organelles (mitochondria, cell nucleus), endogenous macromolecules (membrane proteins, cytoplasmic enzymes) and pathogens (viruses,

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bacteria) are examined. Through this evaluation of receptors, all the main types of human disease and all major categories of drugs are considered. There have been many changes in the third edition, including a new chapter on the immune system. Because of their increasingly prominent role in drug discovery, molecular modeling techniques, high throughput screening, neuropharmacology and genetics/genomics are given much more attention. The chapter on hormonal therapies has been thoroughly updated and re-organized. Emerging enzyme targets in drug design (e.g. kinases, caspases) are discussed, and recent information on voltage-gated

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and ligand-gated ion channels has been incorporated. The sections on antihypertensive, antiviral, antibacterial, anti-inflammatory, antiarrhythmic, and anticancer drugs, as well as treatments for hyperlipidemia and peptic ulcer, have been substantially expanded. One new feature will enhance the book's appeal to all readers: clinical-molecular interface sections that facilitate understanding of the treatment of human disease at a molecular level.

Accessible Elements informs science educators about current practices in online and distance education: distance-delivered methods for laboratory coursework, the requisite administrative and

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institutional aspects of online and distance teaching, and the relevant educational theory. Delivery of university-level courses through online and distance education is a method of providing equal access to students seeking post-secondary education. Distance delivery offers practical alternatives to traditional on-campus education for students limited by barriers such as classroom scheduling, physical location, finances, or job and family commitments. The growing recognition and acceptance of distance education, coupled with the rapidly increasing demand for accessibility and flexible delivery of courses, has made distance education a viable and popular

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option for many people to meet their science educational goals. Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do

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much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom.

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Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

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analysis, problem solving and quantitative reasoning, applying conceptual understanding to new situations and peer-to-peer collaboration. Nivaldo Tro presents chemistry visually through multi-level images--macroscopic, molecular, and symbolic representations--helping you see the connections between the world (macroscopic), the atoms and molecules that compose the world (molecular), and the formulas you write down on paper (symbolic). The benefits of Dr. Tro's problem-solving approach are reinforced through digital, Interactive Worked Examples that provide an office-hour type of environment and expanded coverage on the latest developments in chemistry. New Key Concept Videos explain difficult concepts while new end-

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concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess your understanding and misconceptions. Mastering brings learning full circle by continuously adapting to your learning and making learning more personal than ever--before, during, and after class.

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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 tutorial and assessment program available. This package contains: Principles of Chemistry: A Molecular Approach, Second Edition

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gene expression
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parameters, physiological aspects of microbial communities, enrichment cultures or pure cultures of key species in relation to changes in physico-chemical parameters, and modeling of potential consequences of changes in microbial community structure or function for higher trophic levels in a given habitat. As several studies have been carried out to understand bulking phenomena and the importance of environmental factors on sludge settling characteristics, which are

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thought to be strongly influenced by flocculation, sludge bulking, foaming and rising, this book is an ideal resource on the topics covered. Presents the state-of-the-art techniques and applications of omics tools in wastewater treatment reactors (WWTRs) Describes both theoretical and practical knowledge surrounding the fundamental roles of microorganisms in WWTRs Points out the reuse of treated wastewater through emerging technologies

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present. Base metals offer
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supply, and lower toxicity
levels than noble
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opportunity for scientific investigation and increased development of practical applications. Non-Noble Metal Catalysis provides an authoritative survey of the field, from fundamental concepts and computational methods to industrial applications and reaction classes. Recognized experts in organometallic chemistry and homogeneous catalysis, the authors present a comprehensive overview of the conceptual and practical aspects of non-noble metal catalysts. Examination of topics

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including non-innocent ligands, proton-coupled electron transfer, and multi-nuclear complexes provide essential background information, while areas such as kinetic lability and lifetimes of intermediates reflect current research and shifting trends in the field. This timely book demonstrates the efficacy of base metal catalysts in the pharmaceutical, fine-chemical, and agrochemical industries, addressing both environmental and economic concerns. Providing essential

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Noble Metal Catalysis: Molecular Approaches and Reactions is an indispensable source of up-to-date information for catalytic chemists, organic chemists, industrial chemists, organometallic chemists, and those seeking to broaden their knowledge of catalytic chemistry. Written by sixteen of Canada's pioneering nuclear scientists, the book focuses on Canada's nuclear program at AECL's laboratories at Chalk River, Ontario, and Whiteshell, Manitoba,

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between the years 1943 and 1985. Topics include the organization and operations of AECL's laboratories, nuclear safety and radiation protection, radioisotopes, basic research, development of the CANDU reactor, and the management of radioactive wastes. As well as providing a valuable historical perspective on Canadian science, Canada Enters the Nuclear Age offers useful guidance for innovative scientific development in the future, a future that will depend

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**Drug repurposing or drug
repositioning is a new
approach to presenting new
indications for common
commercial and clinically
approved existing drugs.
For example, chloroquine,
an old antimalarial drug,**

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showed promising results for treating COVID-19, interfering with MDR in several types of cancer, and chemosensitizing human leukemic cells. This book focuses on the hypothesis, risk/benefits, and economic impacts of drug repurposing on drug discovery in dermatology, infectious diseases, neurological disorders, cancer, and orphan diseases. It brings together up-to-date research to provide readers with an informative, illustrative, and easy-to-read book

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chemistry textbook published in 30 years is now specifically written for Canadian students. This innovative, pedagogically driven text explains difficult concepts in a student-oriented manner. The book offers a rigorous and accessible treatment of general chemistry in the context of relevance. Chemistry is presented visually through multi-level images—macroscopic, molecular and symbolic representations—helping students see the connections among the

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formulas (symbolic), the world around them (macroscopic), and the atoms and molecules that make up the world (molecular). Chemistry: A Molecular Approach, First Canadian edition offers expanded coverage of organic chemistry, employs SI units, and brings the text in line with IUPAC conventions. This first Canadian edition is accompanied by Pearson's MasteringChemistry, the most advanced, most widely used online chemistry tutorial and homework program in the world. If

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offers a rigorous and accessible treatment of general chemistry in the context of relevance. Chemistry is presented visually through multi-level images--macroscopic, molecular and symbolic representations--helping students see the connections among the 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;

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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; Electro

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For laboratory courses in General Chemistry Engaging students in real-world applications Laboratory Manual for Chemistry: Structure and Properties provides a series of experiments written to correspond with an atoms-first approach. The experiments connect to the daily lives of students with engaging, real-world applications and incorporate household items such as Coca-

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This custom edition is published for Murdoch University. It is compiled

from: Introductory Chemistry,
Global Edition (5e) Module 12
Organic Compounds

Analytical methods are the essential enabling tools of the modern biosciences. This book presents a comprehensive introduction into these analytical methods, including their physical and chemical backgrounds, as well as a discussion of the strengths and weakness of each method. It covers all major techniques for the determination and experimental analysis of biological macromolecules, including proteins, carbohydrates, lipids and nucleic acids. The presentation includes frequent cross-references in order to highlight the

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many connections between different techniques. The book provides a bird's eye view of the entire subject and enables the reader to select the most appropriate method for any given bioanalytical challenge. This makes the book a handy resource for students and researchers in setting up and evaluating experimental research. The depth of the analysis and the comprehensive nature of the coverage mean that there is also a great deal of new material, even for experienced experimentalists. The following techniques are covered in detail:

- Purification and determination of proteins -
- Measuring enzymatic activity -
- Microcalorimetry - Immunoassays,

affinity chromatography and other immunological methods - Cross-linking, cleavage, and chemical modification of proteins - Light microscopy, electron microscopy and atomic force microscopy - Chromatographic and electrophoretic techniques - Protein sequence and composition analysis - Mass spectrometry methods - Measuring protein-protein interactions - Biosensors - NMR and EPR of biomolecules - Electron microscopy and X-ray structure analysis - Carbohydrate and lipid analysis - Analysis of posttranslational modifications - Isolation and determination of nucleic acids - DNA hybridization

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reaction techniques - Protein
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This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology, or gene cloning and expression. The techniques used in basic research and biotechnology laboratories are covered in detail. Students gain hands-on experience from start to finish in subcloning a gene into

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an expression vector, through purification of the recombinant protein. The third edition has been completely re-written, with new laboratory exercises and all new illustrations and text, designed for a typical 15-week semester, rather than a 4-week intensive course. The “project approach to experiments was maintained: students still follow a cloning project through to completion, culminating in the purification of

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recombinant protein. It takes advantage of the enhanced green fluorescent protein - students can actually visualize positive clones following IPTG induction. Cover basic concepts and techniques used in molecular biology research labs Student-tested labs proven successful in a real classroom laboratories Exercises simulate a cloning project that would be performed in a real research lab "Project"

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approach to experiments gives students an overview of the entire process Prep-list appendix contains necessary recipes and catalog numbers, providing staff with detailed instructions Since the early 1970s, experts have recognized that petroleum pollutants were being discharged in marine waters worldwide, from oil spills, vessel operations, and land-based sources. Public attention to oil spills

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has forced improvements. Still, a considerable amount of oil is discharged yearly into sensitive coastal environments. Oil in the Sea provides the best available estimate of oil pollutant discharge into marine waters, including an evaluation of the methods for assessing petroleum load and a discussion about the concerns these loads represent. Featuring close-up looks at the Exxon Valdez spill and other notable events,

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the book identifies important research questions and makes recommendations for better analysis of "and more effective measures against" pollutant discharge. The book discusses: Input "where the discharges come from, including the role of two-stroke engines used on recreational craft. Behavior or fate "how oil is affected by processes such as evaporation as it moves through the marine environment.

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