

Chemistry An Introduction To General Organic And Biological Chemistry 11th Edition

This general, organic, and biochemistry text has been written for students preparing for careers in health-related fields such as nursing, dental hygiene, nutrition, medical technology, and occupational therapy. It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry. Students need have no previous background in chemistry, but should possess basic math skills. The text features numerous helpful problems and learning features.

Used by over a million science students, the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. Pearson eText gives students access to the text whenever and wherever they can access the Internet. The eText pages look exactly like the printed text, and include powerful interactive and customization functions. This is the product access code card for MasteringChemistry with Pearson eText and does not include the actual bound book. Drawing on 20 years of teaching allied health and pre-professional students, authors Laura Frost and Todd Deal have created this innovative new text for your GOB chemistry course. General, organic, and biological chemistry topics are integrated throughout each chapter in a manner that immediately relates chemistry to your future allied health

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career and everyday life. General, Organic, and Biological Chemistry: An Integrated Approach introduces the problem-solving skills you will need to assess situations critically on the job. Unique guided-inquiry activities are incorporated after each chapter, guiding you through an exploration of the information to develop chemical concepts, and then apply the developed concept to further examples.

Timberlake's Chemistry: An Introduction to General, Organic, and Biological Chemistry is designed to help prepare students for health-related careers, such as nursing, dietetics, respiratory therapy, and environmental or agricultural science. Assuming no prior knowledge of chemistry, it aims to make this course an engaging and positive experience by relating the structure and behavior of matter to its role in health and the environment. Timberlake maintains the clear, friendly writing style and the real-world, health-related applications that have made this text a leader in the discipline. The Eleventh Edition introduces more problem-solving strategies-including new Concept Checks, more Guides to Problem Solving, and more conceptual, challenge, and combined problems.

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.

This new edition of a popular book, eases access to organic chemistry by connecting it with the world of

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plants and their colours, fragrances and defensive mechanisms.

In this Very Short Introduction Peter Atkins inspires us to look at chemistry through new eyes. Considering the remarkable achievements chemistry has made, he presents a fascinating, clear, and rigorous exploration of the world of chemistry - its structure, core concepts, and contributions to the material comfort and culture of the modern world.

Chemistry provides a robust coverage of the different branches of chemistry - with unique depth in organic chemistry in an introductory text - helping students to develop a solid understanding of chemical principles, how they interconnect and how they can be applied to our lives. "Covers Physical Chemistry in an accessible format for first years...good for covering the gap between varied levels of knowledge from different schools' curricula and the mcuh more demanding University courses."
- Dr Ritu Katakya, DEPT OF CHEMISTRY,
UNIVERSITY OF DURHAM

An introduction to the molecular basis of life.

A Mole of Chemistry: An Historical and Conceptual Approach to Fundamental Ideas in Chemistry is intended for students in their undergraduate years who need to learn the basics of chemistry, including science and engineering as well as humanities. This is a companion textbook which provides a unique perspective on how the main scientific concepts

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describing nature were discovered and, eventually, how modern chemistry was born. The book makes use of context found in history, philosophy and the arts to better understand their developments, and with as few mathematical equations as possible. The focus is then set on scientific reasoning, making this book a great companion and addition to traditional chemistry textbooks. Features: A companion for a general chemistry textbook and provides an historical approach to fundamental chemistry Presents origins of fundamental ideas in chemical science and the focus is then set on scientific reasoning User friendly and with as few mathematical equations as possible About the Authors: Dr. Caroline Desgranges earned a DEA in Physics in 2005 at the University Paul Sabatier – Toulouse III (France) and a PhD in Chemical Engineering at the University of South Carolina (USA) in 2008. Dr. Jerome Delhommelle earned his PhD in Chemistry at the University of Paris XI-Orsay (France) in 2000. He is currently working as an Associate Professor in Chemistry at the University of North Dakota.

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For one-semester courses in General, Organic, and
Biological Chemistry Show the importance of
chemistry in the real world Chemistry: An
Introduction to General, Organic, and Biological
Chemistry, Twelfth Edition is the ideal resource for
today's allied health students. Assuming no prior
knowledge of chemistry, author Karen Timberlake
engages students through her friendly presentation
style and reveals connections between the structure
and behavior of matter and its role in health and the
environment. With a renewed focus on problem-
solving skills, the Twelfth Edition encourages active
learning through the new, interactive Pearson eText
enhanced with media within MasteringChemistry
(optional). New Interactive Videos, Sample
Calculations, 'Problem Solving in Allied Health'
Tutorials, and Dynamic Study Modules bring
chemistry to life and walk students through different
approaches to problem solving, providing
remediation where needed. This program provides a
better teaching and learning experience-for you and
your students.It will help you to: *Personalize
learning with optional MasteringChemistry(R): This
online homework, tutorial, and assessment program
helps students master core concepts and problem-
solving skills, thus freeing up time in the classroom
for instructors to focus on complex topics. *Show the
relevance of chemistry through real-world examples:

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Activities and applications throughout the program couple chemistry concepts with health and environmental career applications to help students understand why course content matters. *Foster development of problem-solving skills: The program introduces a variety of clear problem-solving strategies early in the text that are reinforced through Allied Health Tutorials in MasteringChemistry and revisited when needed. *Help students visualize and understand concepts: The text's engaging visual features, including macro-to-micro illustrations, a rich photographic program, and concept maps, help students understand chemistry by seeing chemistry. Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

Some printings include access code card, "Mastering Chemistry."

'General, Organic, and Biological Chemistry' provides a readable, uncomplicated and accessible introduction to students in allied health and other fields who have little or no background in chemistry. Sets of questions and problems are featured. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for

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The Study Guide and Selected Solutions Manual as written specifically to assist students using Chemistry: An Introduction to General, Organic, and Biological Chemistry . It contains learning objectives, chapter outlines, additional problems with self-tests and answers, and answers to the odd-numbered problems in the text.

This bestselling text continues to lead the way with a strong focus on current issues, pedagogically rich framework, wide variety of medical and biological applications, visually dynamic art program, and exceptionally strong and varied end-of-chapter problems. Revised and updated throughout, the eleventh edition now includes new biochemistry content, new Chemical Connections essays, new and revised problems, and more. Most end of chapter problems are now available in the OWLv2 online learning system. - See more at: http://www.cengage.com/search/productOverview.do?Ntt=bettelheim|32055039717924713418311458721577017661&N=16&Ntk=APG%7CP_EPI&Ntx=mode+matchallpartial#Overview Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Revised third edition of classic first-year text by Nobel laureate. Atomic and molecular structure, quantum mechanics, statistical mechanics, thermodynamics correlated with descriptive chemistry. Problems.

An Introduction to Air Chemistry serves as a textbook on air chemistry and covers topics such as chemical principles, sampling and collection, treatment of data, and special methods of analysis. The atmospheric chemistry of sulfur compounds is also discussed, together with nitrogen compounds and ozone, aerosols, and carbon compounds. This book is comprised of nine chapters and begins with a review of the relevant chemical and meteorological principles. The general methods for obtaining and handling air chemical data are then described, followed by a discussion on three classes of chemical compounds that are important in any consideration of trace constituents of the atmosphere, namely, sulfur compounds, carbon compounds, and nitrogen compounds and ozone. Significant atmospheric reactions, the global budgets, and selected methods of analysis for these compounds are considered. The final chapter examines some of the physical characteristics of aerosols. This monograph will be a valuable resource for upper-level undergraduate and graduate-level students of analytical chemistry, meteorology, oceanography, and civil engineering,

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as well as for laboratory chemists, meteorologists, physical scientists, and technicians.

Chemistry: An Introduction for Medical and Health Sciences provides students and practitioners with a clear, readable introduction to the chemical terms and concepts that are relevant to their study and practice. Assuming little prior knowledge of the subject the book describes and explains the chemistry underlying many of the most commonly prescribed drugs and medicines. It also includes information on chemical aspects of digestion and nutrition, oxidation, radioactivity and an overview of how chemicals fight disease. Excellent pedagogy including learning objectives, diagnostic tests and questions in each chapter and a comprehensive glossary. Experienced author team with many years experience of teaching chemistry to non-chemists

Introduction to Chemistry is a 26-chapter introductory textbook in general chemistry. This book deals first with the atoms and the arithmetic and energetics of their combination into molecules. The subsequent chapters consider the nature of the interactions among atoms or the so-called chemical bonding. This topic is followed by discussions on the nature of intermolecular forces and the states of matter. This text further explores the statistics and dynamics of chemistry, including the study of equilibrium and kinetics. Other chapters cover the aspects of ionic equilibrium, acids and bases, and galvanic cells. The concluding chapters focus on a descriptive study of chemistry, such as the representative and transition elements, organic and nuclear chemistry, metals, polymers, and biochemistry. Teachers and undergraduate chemistry students will find this book of great value.

This graduate-level text explains the modern in-depth approaches to the calculation of electronic structure and the properties of molecules. Largely self-contained, it features

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more than 150 exercises. 1989 edition.

KEY BENEFIT: Basic Chemistry, Second Edition is a text for the preparatory chemistry course that gives readers the problem-solving tools and techniques needed to be successful in future chemistry courses and in the work force. The book's unique Guide to Problem-Solving strategy provides a visual, step-by-step plan that helps readers solve a wide variety of problems. Sample and practice problems throughout each chapter allow readers of various levels and learning styles to practice and master quantitative skills. Chemistry in Our Lives, Measurements, Matter and Energy, Atoms and Elements, Names and Formulas of Compounds, Moles and Chemical Quantities, Chemical Reactions and Equations, Quantities in Chemical Reactions, Atomic Structure and Periodic Trends, Molecular Structures in Liquids and Solids, Gases and Their Properties, Solutions, Chemical Equilibrium, Acids and Bases, Oxidation-Reduction: Transfer of Electrons, Nuclear Chemistry, Organic Chemistry, Biochemistry For all readers interested in preparatory chemistry.

This concise book is for those starting their first chemistry course, and those who wish to understand basic chemistry. This book communicates understanding and helps the reader to comprehend the ideas in chemistry, rather than to learn by rote. This book would suit those studying chemistry 101, GCSE, iGCSE, prep school, HSC, SQC, OCR, AQA, Edexcel chemistry, CISCE, NCEE, Gaokao, HKEAA, CXC, WASSCE, GCE Ordinary Level, O-level, IBT, or eBT. Written in plain English, the reader is presented with the core concepts in chemistry, each idea building on the earlier ones. Exercises, with answers, help to re-enforce understanding. The author is a professional writer, was an examiner and was the Head of Department at one of the top one hundred independent schools in England. He lives in Oxford, England, UK. The

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book was checked by a Doctor of Chemistry from Oxford, and tested on actual students.

General, Organic and Biochemistry is praised for the way it gives students the tools they need to develop a working understanding of chemical principles—rather than just asking them to memorize facts. The new edition brings forward the same clear explanations, quality problem-solving support, helpful pedagogy, and applications coverage, adding new features and content to make the text even more accessible, effective, and relevant to its student audience. In order to motivate and thoroughly prepare students, particular attention is paid to relating the chemistry concepts to the human body, health, nutrition, and other important areas important to the student audience. Available in three versions: • General, Organic, and Biochemistry, Second Edition, 0-7167-4375-2—A hardback text of 26 chapters. • Organic and Biochemistry, Second Edition, 0-7167-7072-5—A paperback text containing all organic and biochemistry chapters, plus two general chemistry chapters not included in the GOB version. • An Introduction to General Chemistry, 0-7167-7073-3—A paperback text containing all 10 general chemistry chapters. Classic undergraduate text explores wave functions for the hydrogen atom, perturbation theory, the Pauli exclusion principle, and the structure of simple and complex molecules. Numerous tables and figures. Medicinal Chemistry: An Introduction, Second Edition provides a comprehensive, balanced introduction to this evolving and multidisciplinary area of research. Building on the success of the First Edition, this edition has been completely revised and updated to include the latest developments in the field. Written in an accessible style, Medicinal

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Chemistry: An Introduction, Second Edition carefully explains fundamental principles, assuming little in the way of prior knowledge. The book focuses on the chemical principles used for drug discovery and design covering physiology and biology where relevant. It opens with a broad overview of the subject with subsequent chapters examining topics in greater depth. From the reviews of the First Edition: "It contains a wealth of information in a compact form" ANGEWANDTE CHEMIE, INTERNATIONAL EDITION "Medicinal Chemistry is certainly a text I would chose to teach from for undergraduates. It fills a unique niche in the market place." PHYSICAL SCIENCES AND EDUCATIONAL REVIEWS

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