

Chemistry Core Concepts 1st Edition Wiley Direct

Core Concepts in Supramolecular Chemistry and Nanochemistry
 Aquatic Chemistry Concepts, Second Edition
 Key Concepts
 Photochromism: Molecules and Systems
 Core Concepts 1st Edition
 A New Paradigm for Teaching Physiology
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 Core Concepts and New Frontiers
 Concepts and Problems, A Self-Teaching Guide
 Organic Chemistry Study Guide
 Art History: The Key Concepts

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SANTOS LACI

Core Concepts in Supramolecular Chemistry and Nanochemistry John Wiley & Sons

Key Concepts in Environmental Chemistry provides a modern and concise introduction to environmental chemistry principles and the dynamic nature of environmental systems. It offers an intense, one-semester examination of selected concepts encountered in this field of study and provides integrated tools in explaining complex chemical problems of environmental importance. Principles typically covered in more comprehensive textbooks are well integrated into general chapter topics and application areas. The goal of this textbook is to provide students with a valuable resource for learning the basic concepts of environmental chemistry from an easy to follow, condensed, application and inquiry-based perspective. Additional statistical, sampling, modeling and data analysis concepts and exercises will be introduced for greater understanding of the underlying processes of complex environmental systems and fundamental chemical principles. Each chapter will have problem-oriented exercises (with examples throughout the body of the chapter) that stress the important concepts covered and research applications/case studies from experts in the field. Research applications will be directly tied to theoretical concepts covered in the chapter. Overall, this text provides a condensed and integrated tool for student learning and covers key concepts in the rapidly developing field of environmental chemistry. Intense, one-semester approach to learning Application-based approach to learning theoretical concepts In depth analysis of field-based and in situ analytical techniques Introduction to environmental

modeling

Aquatic Chemistry Concepts, Second Edition Garland Science

Art History: The Key Concepts is a systematic, reliable and accessible reference guide to the disciplines of art history and visual culture. Containing entries on over 200 terms integral to the historical and theoretical study of art, design and culture in general, it is an indispensable source of knowledge for all students, scholars and teachers. Covering the development, present status and future direction of art history, entries span a wide variety of terms and concepts such as abstract expressionism, epoch, hybridity, semiology and zeitgeist. Key features include: a user-friendly A-Z format fully cross-referenced entries suggestions for further reading. Engaging and insightful, as well as easy to follow and use, Art History: The Key Concepts builds a radical intellectual synthesis for understanding and teaching art, art history and visual culture.

[Key Concepts](#) Academic Press

Designed for upper-level undergraduate and graduate students, Introductory Nanoscience asks key questions about the quantitative concepts that underlie this new field. How are the optical and electrical properties of nanomaterials dependent upon size, shape, and morphology? How do we construct nanometer-sized objects? Using solved examples thr

Photochromism: Molecules and Systems OUP Oxford

Written as a quick reference to the many different concepts and ideas encountered in chemistry, Basic Chemical Concepts and Tables presents important subjects in a concise format that makes it a practical resource for any reader. The author covers multiple subjects including general

chemistry, inorganic chemistry, organic chemistry, and spectral analysis. Separate chapters offer physical constants and unit measurements commonly encountered and mathematical concepts needed when reviewing or working with basic chemistry concepts. Other features include: Tables that are useful as for the interpretation of ultra-violet (UV), infra-red (IR), nuclear magnetic resonance (NMR) and mass spectroscopy (MS) spectra. Physical constants and unit measurements that are commonly encountered throughout the application of chemistry. Sections devoted to the concept of isomers and polymer structures. Graduate and undergraduate chemistry students, professionals, or instructors looking to refresh their understanding of a chemistry topic will find this ready reference indispensable in their daily work. Written as a quick reference to the many different concepts and ideas encountered in chemistry, *Basic Chemical Concepts and Tables* presents important subjects in a concise format that makes it a practical resource for any reader. The author covers multiple subjects including general chemistry, inorganic chemistry, organic chemistry, and spectral analysis. Separate chapters offer physical constants and unit measurements commonly encountered and mathematical concepts needed when reviewing or working with basic chemistry concepts. Other features include: Tables that are useful as for the interpretation of ultra-violet (UV), infra-red (IR), nuclear magnetic resonance (NMR) and mass spectroscopy (MS) spectra. Physical constants and unit measurements that are commonly encountered throughout the application of chemistry. Sections devoted to the concept of isomers and polymer structures. Graduate and undergraduate chemistry students, professionals, or instructors looking to refresh their understanding of a chemistry topic will find this ready reference indispensable in their daily work.

Core Concepts 1st Edition Elsevier

Organic Chemistry Study Guide: Key Concepts, Problems, and Solutions features hundreds of problems from the companion book, *Organic Chemistry*, and includes solutions for every problem. Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject. Organic chemistry is a constantly evolving field that has great relevance for all scientists, not just chemists. For chemical engineers, understanding the properties of organic molecules and how reactions occur is critically important to understanding the processes in an industrial plant. For biologists and health professionals, it is essential because nearly all of biochemistry springs from organic chemistry. Additionally, all scientists can benefit from improved critical thinking and problem-solving skills that are developed from the study of organic chemistry. Organic chemistry, like any "skill", is best learned by doing. It is difficult to learn by rote memorization, and true understanding comes only from concentrated reading, and working as many problems as possible. In fact, problem sets are the best way to ensure that concepts are not only well understood, but can also be applied to real-world problems in the work place. Helps readers learn to categorize, analyze, and solve organic chemistry problems at all levels of difficulty Hundreds of fully-worked practice problems, all with solutions Key concept summaries for every chapter reinforces core content from the companion book

John Wiley & Sons

'Informative, accessible, and fun to read— this is an excellent reference guide for undergraduates and anyone wanting an introduction to the fundamental issues of metaphysics. I know of no other resource like it.' - Meghan Griffith, Davidson College, USA 'Marvellous! This book provides the very best place to start for students wanting to take the first step into understanding metaphysics. Undergraduates would do well to buy it and consult it regularly. The quality and clarity of the material are consistently high.' - Chris Daly, University of Manchester, UK Ever wondered about Gunk, Brains in a Vat or Frankfurt's Nefarious Neurosurgeon? With complete explanations of these terms and more, *Metaphysics: The Key Concepts* is an accessible and engaging introduction to the most widely studied and challenging concepts in metaphysics. The authors clearly and lucidly define and discuss key terms and concepts, under the themes of: time particulars & universals realism & antirealism free will personal identity causation and laws. Arranged in an easy to use A-Z format, each concept is explored and illustrated with engaging and memorable examples, and accompanied by an up-to-date guide to further reading. Fully cross-referenced throughout, this remarkable reference guide is essential reading for students of philosophy and all those interested in the nature of reality.

A New Paradigm for Teaching Physiology CRC Press

Tackling environmental issues such as global warming, ozone depletion, acid rain, water pollution, and soil contamination requires an understanding of the underlying science and chemistry of these processes in real-world systems and situations. *Chemistry for Environmental and Earth Sciences* provides a student-friendly introduction to the basic chemistry used for the mitigation, remediation, and elimination of pollutants. Written and organized in a style that is accessible to science as well as non-science majors, this textbook divides its content into four intuitive chapters: Fire, Earth, Water, and Air. The first chapter explains classical concepts in chemistry that occur in nature such as atomic and molecular structures, chemical bonding and reactions, states of matter, phase transitions, and radioactivity. Subsequent chapters focus on the chemistry relating to the geosphere, hydrosphere, and atmosphere—including the chemical aspects of soil, water, and air pollution, respectively. *Chemistry for Environmental and Earth Sciences* uses worked examples and case studies drawn from current applications along with clear diagrams and concise explanations to illustrate the relevance of chemistry to geosciences. In-text and end-of-chapter questions with complete solutions also help students gain confidence in applying concepts from this book towards solving current, real-world problems.

Core Concepts of Accounting Information Systems Routledge

Chemistry can be a daunting subject for the uninitiated, and all too often, introductory textbooks do little to make students feel at ease with the complex subject matter. *Basic Chemistry Concepts and Exercises* brings the wisdom of John Kenkel's more than 35 years of teaching experience to communicate the fundamentals of chemistry in a practical, down-to-earth manner. Using conversational language and logically assembled graphics, the book concisely introduces each topic without overwhelming students with unnecessary detail. Example problems and end-of-chapter questions emphasize repetition of concepts, preparing students to become adept at the basics before they progress to an advanced general chemistry course. Enhanced with visualization techniques such as the first chapter's mythical microscope, the book clarifies challenging, abstract ideas and stimulates curiosity into what can otherwise be an overwhelming topic. Topics discussed in this reader-friendly text include: Properties and structure of matter Atoms, molecules, and compounds The Periodic Table Atomic weight, formula weights, and moles Gases and solutions Chemical equilibrium Acids, bases, and pH Organic chemicals The appendix contains answers to the homework exercises so students can check their work and receive instant

feedback as to whether they have adequately grasped the concepts before moving on to the next section. Designed to help students embrace chemistry not with trepidation, but with confidence, this solid preparatory text forms a firm foundation for more advanced chemistry training.

Chemistry 4th Edition Hybrid Chemistry Core Concepts 2E Hybrid Chemistry Core Concepts 1st Edition

Critical Theory: The Key Concepts introduces over 300 widely-used terms, categories and ideas drawing upon well-established approaches like new historicism, postmodernism, psychoanalysis, Marxism, and narratology as well as many new critical theories of the last twenty years such as Actor-Network Theory, Global Studies, Critical Race Theory, and Speculative Realism. This book explains the key concepts at the heart of a wide range of influential theorists from Agamben to Žižek. Entries range from concise definitions to longer more explanatory essays and include terms such as: Aesthetics Desire Dissensus Dromocracy Hegemony Ideology Intersectionality Late Capitalism Performativity Race Suture Featuring cross-referencing throughout, a substantial bibliography and index, *Critical Theory: The Key Concepts* is an accessible and easy-to-use guide. This book is an invaluable introduction covering a wide range of subjects for anyone who is studying or has an interest in critical theory (past and present).

Metaphysics: The Key Concepts Academic Press

Affect and emotion have come to dominate discourse on social and political life in the mobile and networked societies of the early 21st century. This volume introduces a unique collection of essential concepts for theorizing and empirically investigating societies as Affective Societies. The concepts promote insights into the affective foundations of social coexistence and are indispensable to comprehend the many areas of conflict linked to emotion such as migration, political populism, or local and global inequalities. Adhering to an instructive narrative, *Affective Societies* provides historical orientation; detailed explication of the concept in question, clear-cut research examples, and an outlook at the end of each chapter. Presenting interdisciplinary research from scholars within the Collaborative Research Center "Affective Societies," this insightful monograph will appeal to students and researchers interested in fields such as affect and emotion, anthropology, cultural studies, and media studies.

Core Concepts John Wiley & Sons

Chemistry: Core Concepts continues the substantial commitment of Wiley to chemistry education in Australia and New Zealand. The text has been developed by a group of leading chemistry educators for students entering university with little or no background in chemistry. It presents the core concepts in chemistry at a level that will enable students to build confidence and achieve success in their university chemistry studies in discipline areas such as the applied sciences, health sciences and engineering. All the fundamentals are covered -- including the use of chemistry language, symbols and molecular structures -- and it also develops the requisite quantitative skills. *Chemistry: Core Concepts* has been adapted from Wiley's market leading Chemistry text by Blackman, Bottle, Schmid, Mocerino and Wille. Many of the strengths of this book have been retained, however the narrative has been abridged and simplified to make it more accessible for foundation students. A hallmark feature of the core text is the 'stepped' demonstration problems, which model a consistent problem-solving methodology designed to encourage students to break complex tasks down into their constituent parts. Another key pedagogical element of the text is the 'Chemical Connections' feature, which brings additional meaning to the study of chemistry by highlighting the connections between the chemical concepts within the chapter and local applications of that chemistry in the world around us. Importantly, *Chemistry: Core Concepts* was envisaged as a print/digital product, where the narrative in the text is designed to be rendered as an interactive journey through a media-enhanced E-Text, providing students with the opportunity to view chemical reactions as movies, demonstration problems as animations and end-of-chapter questions are presented as online revision quizzes that provide instant feedback and progress reports. The digital version of the text will be delivered in the ground-breaking WileyPLUS Learning Space framework, an exciting new teaching and learning environment that provides a personalised learning experience for students and transforms courses into a vibrant, collaborative learning community.

Physical and Chemical Concepts Routledge

"There is a widespread perception that the foundations of American democracy are dysfunctional and little is likely to emerge from traditional politics that will shift those conditions. Youth are often seen as emblematic of this crisis--frequently represented as uninterested in political life and ill-informed about current-affairs. By *Any Media Necessary* offers a profoundly different picture of contemporary American youth. Young men and women are tapping into the potential of new forms of communication, such as social media platforms and spreadable videos and memes, seeking to bring about political change--by any media necessary. In a series of case studies covering a diverse range of organizations, networks, and movements--from the Harry Potter Alliance, which fights for human rights in the name of the popular fantasy franchise, to immigration-rights advocates using superheroes to dramatize their struggles--By *Any Media Necessary* examines the civic imagination at work. Exploring new forms of political activities and identities emerging from the practice of participatory culture, *Any Media Necessary* reveals how these shifts in communication have unleashed a new political dynamism in American youth."--Book jacket.

Analytical Sample Preparation With Nano- and Other High-Performance Materials Routledge

Comprehensive Supramolecular Chemistry II, Second Edition is a 'one-stop shop' that covers supramolecular chemistry, a field that originated from the work of researchers in organic, inorganic and physical chemistry, with some biological influence. The original edition was structured to reflect, in part, the origin of the field. However, in the past two decades, the field has changed a great deal as reflected in this new work that covers the general principles of supramolecular chemistry and molecular recognition, experimental and computational methods in supramolecular chemistry, supramolecular receptors, dynamic supramolecular chemistry, supramolecular engineering, crystallographic (engineered) assemblies, sensors, imaging agents, devices and the latest in nanotechnology. Each section begins with an introduction by an expert in the field, who offers an initial perspective on the development of the field. Each article begins with outlining basic concepts before moving on to more advanced material. Contains content that begins with the basics before moving on to more complex concepts, making it suitable for advanced undergraduates as well as academic researchers Focuses on application of the theory in practice, with particular focus on areas that have gained increasing importance in the 21st century, including nanomedicine, nanotechnology and medicinal chemistry Fully rewritten to make a completely up-to-date reference work that covers all the major advances that have taken place since the First Edition published in 1996

Core Concepts Elsevier

Basic Concepts of Environmental Chemistry, Second Edition provides a theoretical basis for the behavior and biological effects of natural chemical entities and contaminants in natural systems, concluding with a practical focus on risk assessment and the environmental management of chemicals. The text uses molecular properties such as polarity, water solubility, and vapor pressure as the starting point for understanding the environmental chemistry of various contaminants in soil, water, and the atmosphere. It explains biological processes such as respiration and photosynthesis and their relationship to greenhouse gases. The book then introduces environmental toxicology and describes the distribution, transport, and transformation of contaminants, including PCBs and dioxins, plastics, petroleum and aromatic hydrocarbons, soaps and detergents, and pesticides. The author highlights the relationship between specific chemical properties and their environmental and biological effects. Other topics discussed include partition behavior, fugacity, and genotoxicity, particularly involving carcinogens. The second edition updates the contents and incorporates the latest advances in the field since the 1997 edition was published. It presents an entirely new chapter on metals, which underlines the correlation between metallic properties and their behavior in the environment, as well as new sections on radionuclides and acid drainage water. The chapter on atmospheric chemistry and pollution has been substantially expanded including photochemical smog, the Greenhouse Effect, and pollution processes in the atmosphere and acid rain. The author also adds recent approaches to ecotoxicology, ecological, and human risk assessments to include the probabilistic approach. Basic Concepts of Environmental Chemistry, Second Edition is a practical textbook for teaching students the basic concepts of chemistry in the framework of the environment and a practical reference for anyone involved in the management and disposal of industrial chemicals and emissions, occupational health and safety, and the protection of the natural environment.

[Integrated Approach to 21st Century Challenges to Health](#) Elsevier

Supramolecular chemistry and nanochemistry are two strongly interrelated cutting edge frontiers in research in the chemical sciences. The results of recent work in the area are now an increasing part of modern degree courses and hugely important to researchers. Core Concepts in Supramolecular Chemistry and Nanochemistry clearly outlines the fundamentals that underlie supramolecular chemistry and nanochemistry and takes an umbrella view of the whole area. This concise textbook traces the fascinating modern practice of the chemistry of the non-covalent bond from its fundamental origins through to its expression in the emergence of nanochemistry. Fusing synthetic materials and supramolecular chemistry with crystal engineering and the emerging principles of nanotechnology, the book is an ideal introduction to current chemical thought for researchers and a superb resource for students entering these exciting areas for the first time. The book builds from first principles rather than adopting a review style and includes key references to guide the reader through influential work. supplementary website featuring powerpoint slides of the figures in the book further references in each chapter builds from first principles rather than adopting a review style includes chapter on nanochemistry clear diagrams to highlight basic principles

[Chemistry for Environmental and Earth Sciences](#) Brooks Cole

Aquatic Chemistry Concepts fills the need for a true, easy-to-use aquatic chemistry book that goes into the details behind some of the complicated equations and principles of aquatic chemistry. It places established science into a text that allows you to learn and to solve important practical environmental problems. Environmental consultants in all fields, regulators, and libraries will consider this text an excellent reference for its clear explanation of aquatic chemistry principles.

[University Chemistry](#) CRC Press

Questions around 'the body' are central to social theory. Our changing understanding of the body now challenges the ways we conceive power,

ideology, subjectivity and social and cultural process. The Body: the key concepts highlights and analyses the debates which make the body central to current sociological, psychological, cultural and feminist thinking. Today, questions around the body are intrinsic to a wide range of debates - from technological developments in media and communications, to socio-cultural questions around representation, performance, class, race, gender and sexuality, to the more 'physical' concerns of health and illness, sleep, diet and eating disorders, body parts and the senses. The Body: the key concepts is the ideal introduction for any student seeking a concise and up-to-date analysis of the complex and influential debates around the body in contemporary culture.

[Chemistry 2e](#) Springer

"Chemistry is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The text has been developed to meet the scope and sequence of most general chemistry courses. At the same time, the book includes a number of innovative features designed to enhance student learning. A strength of Chemistry is that instructors can customize the book, adapting it to the approach that works best in their classroom."--Openstax College website.

[Medicinal Chemistry](#) John Wiley & Sons

Aquatic Chemistry Concepts, Second Edition, is a fully revised and updated textbook that fills the need for a comprehensive treatment of aquatic chemistry and covers the many complicated equations and principles of aquatic chemistry. It presents the established science of equilibrium water chemistry using the uniquely recognizable, step-by-step Pankow format, which allows a broad and deep understanding of aquatic chemistry. The text is appropriate for a wide audience, including undergraduate and graduate students, industry professionals, consultants, and regulators. Every professional using water chemistry will want this text within close reach, and students and professionals alike will expect to find at least one copy on their library shelves. Key Features Extremely thorough, one-of-a-kind treatment of aquatic chemistry Discussions of how to carry out complex calculations regarding the chemistry of lakes, rivers, groundwater, and seawater Numerous example problems worked in complete detail Special foreword by Jerry L. Schnoor

[Basic Concepts of Environmental Chemistry, Second Edition](#) CRC Press

This book collates the main research developments around Lean Construction over the past 25 years with contributions from many seminal authors in the field. It takes stock of developments since the publication of Koskela's (1992) Application of the New Production Philosophy to Construction and, in doing so, challenges current thinking and progress. It also crystallises theoretical conceptualisations and practically situated learning whilst identifying future research challenges, agendas and opportunities for global collaborative actions. The contributors present the development of Lean Construction as a fundamental part of improving construction productivity, quality and delivery of value to clients and users of built infrastructure. In doing so, the book introduces the reader to the foundational principles and theories that have influenced the way we now understand Lean Construction and has provided very useful insights to students, practitioners and researchers on key junctures over the last 25 years. Highlighting the key contemporary developments and using global case study material the chapters demonstrate good practice but also help introduce new thinking to both lay readers and experienced practitioners alike. This book is essential reading for undergraduate and postgraduate students, researchers and practitioners with an interest in Lean Construction and construction management, providing a general understanding of the area, current state of the art knowledge as well as providing an insight into areas for future research.

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