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New Frontiers in Nanochemistry: Concepts, Theories, and Trends, 3-Volume Set explains and explores the important fundamental and advanced modern concepts from various areas of nanochemistry and, more broadly, the nanosciences. This innovative and one-of-a-kind set consists of three volumes that focus on structural nanochemistry, topological nanochemistry, and sustainable nanochemistry respectively, collectively forming an explicative handbook in nanochemistry. The compilation provides a rich resource that is both thorough and accessible, encompassing the core concepts of multiple areas of nanochemistry. It also explores the content through a trans-disciplinary lens, integrating the basic and advanced modern concepts in nanochemistry with various examples, applications, issues, tools, algorithms, and even historical notes on the important people from physical, quantum, theoretical, mathematical, and even biological chemistry.

The most comprehensive book available on the subject, Introduction to General, Organic, and Biochemistry, 11th Edition continues its tradition of fostering the development of problem-solving skills, featuring numerous examples and coverage of current applications. Skillfully anticipating areas of difficulty and pacing the material accordingly, this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry, organic chemistry, and biochemistry. An emphasis on real-world topics lets readers clearly see how the chemistry will apply to their career.

New technology is being used more and more in education and providers have to be aware of what is on offer and how it can be used. This practical handbook demonstrates how interactive multimedia can be developed for educational application.

Presents advanced reservoir simulation methods used in the widely-used MRST open-source software for researchers, professionals, students.

Chemistry, 4th Edition is an introductory general chemistry text designed specifically with Canadian professors and students in mind. A reorganized Table of Contents and inclusion of SI units, IUPAC standards, and Canadian content designed to engage and motivate readers and distinguish this text from other offerings. It more accurately reflects the curriculum of most Canadian institutions. Chemistry is sufficiently rigorous while engaging and retaining student interest through its accessible language and clear problem-solving program without an excess of material and redundancy.

An updated guide to the growing field of nanofiltration including fundamental principles, important industrial applications as well as novel materials. With contributions from an international panel of experts, the revised second edition of Nanofiltration contains a comprehensive overview of this growing field. The book covers

the basic principles of nanofiltration including the design and characterizations of nanofiltration membranes. The expert contributors highlight the broad ranges of industrial applications including water treatment, food, pulp and paper, and textiles. The book explores photocatalytic nanofiltration reactors, organic solvent nanofiltration, as well as nanofiltration in metal and acid recovery. In addition, information on the most recent developments in the field are examined including nanofiltration retentate treatment and renewable energy-powered nanofiltration. The authors also consider the future of nanofiltration materials such as carbon- as well as polymer-based materials. This important book: Explores the fast growing field of the membrane process of nanofiltration Examines the rapidly expanding industrial sector's use of membranes for water purification Covers the most important industrial applications with a strong focus on water treatment Contains a section on new membrane materials, including carbon-based and polymer-based materials, as well as information on artificial ion and water channels as biomimetic membranes Written for scientists and engineers in the fields of chemistry, environment, food and materials, the second edition of Nanofiltration provides a comprehensive overview of the field, outlines the principles of the technology, explores the industrial applications, and discusses new materials.

CHEMISTRY allows the reader to learn chemistry basics quickly and easily by emphasizing a thoughtful approach built on problem solving. For the Eighth Edition, authors Steven and Susan Zumdahl have extended this approach by emphasizing problem-solving strategies within the Examples and throughout the text narrative. CHEMISTRY speaks directly to the reader about how to approach and solve chemical problems—to learn to think like a chemist—so that they can apply the process of problem-solving to all aspects of their lives. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

In this easy-to-understand book, the author, drawing on his many years of practical experience, addresses the problems experienced with management of change in chemical plants. He cites examples of the consequences of the insufficient review of changes implemented to solve one problem, which then create another. Unwise chemical plant modifications are one of the major causes of chemical plant accidents and all proposed good ideas involving change require careful review and analysis before implementation. Illustrated with many case histories this book highlights the incidents of unforeseen, undesirable consequences of unwise change within chemical and petrochemical plants and petroleum refineries. Illustrated with many case histories, this book highlights the incidents of unforeseen, undesirable consequences of unwise change within chemical and petrochemical and petroleum refineries.

With terrorist attacks around the world and here at home and an increase in American workplace violence, I am both passionate and driven to offer valuable information concerning what I believe to be one of the more important topics in the world today: Anti-terrorism and Workplace/Home Protection. For 2 decades, I've taught around the world. Now, it's time to share with you the secrets the bad guy doesn't want you to know! The threats we face are real, and the consequences of conducting "business as usual" brings about severe consequences. PROTECT AMERICA is an in-depth educational training guide designed to offer recommendations/suggestions to both the public and private sector to foster smarter habits and a new attitude when it comes to security, terrorism and violence at work and at home. A peek inside includes a real and awakening look at "lessons learned" examining incidents of terrorist attacks on our nation and vicious workplace attacks. We show you how to "Fight Back." We examine the significance of workplace exercises, and how vital these "practice scenarios" are to the success of the workplace and it's people. We show you how to design your own Site Specific workplace procedures for bomb threats and suspicious packages, duress, emergency and response actions, blood borne pathogens and first aid techniques, and identifying suspicious personnel inside the workplace and around your home. We look at personal and family security to include travel security and special precautions for children. Created are scenarios to make you think, called "what would you do"? And finally, a chapter dedicated to those heros, unsung heros and everyday people doing the right thing..called I SALUTE AND HONOR (Strength. Spirit and Determination). If we don't act now, tomorrow may be too late, and doing nothing is no longer an option.

This book is for students and researchers who have a specific interest in learning and memory and want to understand how computational models can be integrated into experimental research on the hippocampus and learning. It emphasizes the function of brain structures as they give rise to behavior, rather than the molecular or neuronal details. It also emphasizes the process of modeling, rather than the mathematical details of the models themselves. The book is divided into two parts. The first part provides a tutorial introduction to topics in neuroscience, the psychology of learning and memory, and the theory of neural network models. The second part, the core of the book, reviews computational models of how the hippocampus cooperates with other brain structures -- including the entorhinal cortex, basal forebrain, cerebellum, and primary sensory and motor cortices -- to support learning and memory in both animals and humans. The book assumes no prior knowledge of computational modeling or mathematics. For those who wish to delve more deeply into the formal details of the models, there are optional "mathboxes" and appendices. The book also includes extensive references and suggestions for further readings.

Membrane Reactors for Hydrogen Production Processes deals with technological and economic aspects of hydrogen selective membranes application in hydrogen production chemical processes. Membrane Reactors for Hydrogen Production Processes starts with an overview of membrane integration in the chemical reaction environment, formulating the thermodynamics and kinetics of membrane reactors and assessing the performance of different process architectures. Then, the state of the art of hydrogen selective membranes, membrane manufacturing processes and the mathematical modeling of membrane reactors are discussed. A review of the most useful applications from an industrial point of view is given. These applications include: natural gas steam reforming, autothermal reforming, water gas shift reaction, decomposition of hydrogen sulphide, and alkanes dehydrogenation. The

final part is dedicated to the description of a pilot plant where the novel configuration was implemented at a semi-industrial scale. Plant engineers, researchers and postgraduate students will find Membrane Reactors for Hydrogen Production Processes a comprehensive guide to the state of the art of membrane reactor technology.

At the start of the twenty-first century, warnings have been raised in some quarters about how - by intent or by mishap - advances in biotechnology and related fields could aid the spread of disease. Science academics, medical organisations, governments, security analysts, and others are among those that have sought to raise concern. EDUCATION AND ETHICS IN THE LIFE SCIENCES examines a variety of attempts to bring greater awareness to security concerns associated with the life sciences. It identifies lessons from practical initiatives across a wide range of national contexts as well as more general reflections about education and ethics. The eighteen contributors bring together perspectives from a diverse range of fields - including politics, virology, sociology, ethics, security studies, microbiology, and medicine - as well as their experiences in universities, think tanks and government. In offering their assessment about what must be done and by whom, each chapter addresses a host of challenging practical and conceptual questions. EDUCATION AND ETHICS IN THE LIFE SCIENCES will be of interest to those planning and undertaking training activities in other areas. In asking how education and ethics are being made to matter in an emerging area of social unease, it will also be of interest to those with more general concerns about professional conduct.

Myelin: Biology and Chemistry provides in-depth reviews and discussions regarding recent findings in the biology and chemistry of myelin. Topics are interdisciplinary and carry readers from the cellular level to that of the gene. Research in demyelinating diseases (naturally occurring and experimentally produced) is described and emphasizes autoimmune and virally induced mechanisms. Advances in molecular biology, such as those that provide details of the structures of the major myelin proteins, demonstrate the control of their synthesis, and explore the mutations within their genes that disrupt the process of myelination, are discussed in depth. Myelin: Biology and Chemistry will be an important addition to the libraries of molecular biologists, biochemists, cell biologists, physical chemists, immunologists, virologists, and pathologists involved in the study of myelin.

Olmsted/Burk is an introductory general chemistry text designed specifically with Canadian professors and students in mind. A reorganized Table of Contents and inclusion of SI units, IUPAC standards, and Canadian content designed to engage and motivate readers distinguish this text from many of the current text offerings. It more accurately reflects the curriculum of most Canadian institutions. Instructors will find the text sufficiently rigorous while it engages and retains student interest through its accessible language and clear problem solving program without an excess of material that makes most text appear daunting and redundant.

Dr. James W. Kalat's BIOLOGICAL PSYCHOLOGY is the most widely used text in the course area, and for good reason: an extremely high level of scholarship, clear and occasionally humorous writing style, and precise examples. Throughout all eleven editions, Kalat's goal has been to make biological psychology accessible to psychology students, not just to biology majors and pre-meds. Another goal has been to convey the excitement of the search for biological explanations of behavior, and Kalat delivers. Updated with new topics, examples, and recent research findings--and supported by new online bio-labs, part of the strongest media package yet--this text speaks to today's students and instructors. Important Notice: Media content referenced within the product de-

scription or the product text may not be available in the ebook version.

Modern membrane engineering is critical to the development of process-intensification strategies and to the stimulation of industrial growth. Membrane Distillation (MD) is a broad reference that covers specific information on membranes available and methods for MD membrane preparation and characterization. The book offers an introduction to the terminology and fundamental concepts as well as a historical review of MD development. Commercial membranes used in MD as well as laboratory-made membranes, including emerging membranes, are described in detail and illustrated by a number of clear and instructive schematic drawings and images. A comprehensive review on the development of MD membranes, MD modules, MD membrane characterization, MD configurations, applications in different areas and theoretical models Introduction to the terminology and fundamental concepts associated with MD as well as an historical review of MD development Description of commercial membranes used in MD as well as laboratory-made membranes, including emerging membranes

Neuroscience Fundamentals for Communication Sciences and Disorders, Second Edition is a comprehensive textbook primarily designed for undergraduate neural bases or graduate neuroscience courses in communication sciences and disorders programs (CSD). The text can also be used as an accessible go-to reference for speech-language pathology and audiology clinical professionals practicing in medical and rehab settings. Written with an engaging and conversational style, the author uses humor and analogies to explain concepts that are often challenging for students. Complemented by more than 400 visually rich and beautifully drawn full-color illustrations, the book emphasizes brain and behavior relationships while also ensuring coverage of essential neuroanatomy and neurophysiology in an integrative fashion. With a comprehensive background in the principles, processes, and structures underlying the workings of the human nervous system, students and practitioners alike will be able to better understand and apply brain-behavior relationships to make appropriate clinical assessments and treatment decisions. Extending well beyond traditional neuroanatomy-based textbooks, this resource is designed to satisfy three major goals: Provide neuroanatomical and neurophysiological detail that meets the real-world needs of the contemporary CSD student as they move forward toward clinical practice and into the future where advancements in the field of health and brain sciences are accelerating and contributing more and more each day to all areas of rehabilitation. Provide clear, understandable explanations and intuitive material that explains how and why neuroanatomical systems, processes, and mechanisms of the nervous system operate as they do during human behavior. Provide a depth and scope of material that will allow the reader to better understand and appreciate a wide range of evidence-based literature related to behavior, cognition, emotion, language, and sensory perception—areas that all directly impact treatment decisions. New to the Second Edition: * 40 new full-color illustrations * Reorganization and division of content from Chapters 4, 5, and 6 of the previous edition, into six new and more digestible chapters * A new standalone chapter on the cranial nerves * Addition of a major section and discussion on the neural bases of swallowing * Addition of more summary tables and process flowcharts to simplify the text and provide ready-made study materials for students * Revisions to most figures to improve their clarity and coherence with the written material Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

Jim Kalat's best-selling INTRODUCTION TO PSYCHOLOGY takes an evaluate the evidence approach to introductory psychology. Featuring a friendly writing style, hands-on Try It Yourself activities, and helpful visuals, the text invites students to engage in the experience of learning psychology. The modular organization breaks each chapter into meaningful chunks for structuring learning, and provides assignment flexibility for instructors. Content is seamless, with nothing relegated to the margins or separated in boxes. What's the Evidence coverage reviews real studies, encouraging students to ask questions like, Does the evidence really support the conclusion? The Eleventh Edition draws on the latest research and literature to teach students how to separate the plausible from the scientifically demonstrable -- in the psychology classroom and beyond it. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This fully updated Seventh Edition of CHEMICAL PRINCIPLES provides a unique organization and a rigorous but understandable introduction to chemistry that emphasizes conceptual understanding and the importance of models. Known for helping students develop a qualitative, conceptual foundation that gets them thinking like chemists, this market-leading text is designed for students with solid mathematical preparation. The Seventh Edition features a new section on Learning to Solve Problems that discusses how to solve problems in a flexible, creative way based on understanding the fundamental ideas of chemistry and asking and answering key questions. The book is also enhanced by new visual problems, new student learning aids, new Chemical Insights boxes, and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Available for the first time with Macmillan's new online learning tool, Achieve, Introductory Chemistry is the result of a unique author vision to develop a robust combination of text and digital resources that motivate and build student confidence while providing a foundation for their success. Kevin Revell knows and understands students today. Perfectly suited to the new Achieve platform, Kevin's thoughtful and media-rich program, creates light bulb moments for introductory chemistry students and provides unrivaled support for instructors. The second edition of Introductory Chemistry builds on the strengths of the first edition - drawing students into the course through engagement and building their foundational knowledge - while introducing new content and resources to help students build critical thinking and problem-solving skills. Revell's distinct author voice in the text is mirrored in the digital content, allowing students flexibility and ensuring a fully supported learning experience—whether using a book or going completely digital in Achieve. Achieve supports educators and students throughout the full flexible range of instruction, including resources to support learning of core concepts, visualization, problem-solving and assessment. Powerful analytics and instructor support resources in Achieve pair with exceptional Introductory Chemistry content to provide an unrivaled learning experience. Now Supported in Achieve Achieve supports educators and students throughout the full flexible range of instruction, including resources to support learning of core concepts, visualization, problem-solving and assessment. Powerful analytics and instructor support resources in Achieve pair with exceptional Introductory Chemistry content provides an unrivaled learning experience. Features of Achieve include: A design guided by learning science research. Co-designed through extensive collaboration and testing by both students and faculty including two levels of Institutional Review Board approval for every study of Achieve An interactive e-book with embedded multimedia and features for highlight-

ing, note-taking and accessibility support A flexible suite of resources to support learning core concepts, visualization, problem-solving and assessment. A detailed gradebook with insights for just-in-time teaching and reporting on student and full class achievement by learning objective. Easy integration and gradebook sync with iClicker classroom engagement solutions. Simple integration with your campus LMS and availability through Inclusive Access programs. New media and assessment features in Achieve include:

Causal analytics methods can revolutionize the use of data to make effective decisions by revealing how different choices affect probabilities of various outcomes. This book presents and illustrates models, algorithms, principles, and software for deriving causal models from data and for using them to optimize decisions with uncertain outcomes. It discusses how to describe and summarize situations; detect changes; evaluate effects of policies or interventions; learn what works best under different conditions; predict values of as-yet unobserved quantities from available data; and identify the most likely explanations for observed outcomes, including surprises and anomalies. The book resents practical techniques for causal modeling and analytics that practitioners can apply to improve understanding of how choices affect probabilities of consequences and, based on this understanding, to recommend choices that are more likely to accomplish their intended objectives. The book begins with a survey of modern analytics methods, focusing mainly on techniques useful for decision, risk, and policy analysis. Chapter 2 introduces free in-browser software, including the Causal Analytics Toolkit (CAT) software, to enable readers to perform the analyses described and to apply modern analytics methods easily to their own data sets. Chapters 3 through 11 show how to apply causal analytics and risk analytics to practical risk analysis challenges, mainly related to public and occupational health risks from pathogens in food or from pollutants in air. Chapters 12 through 15 turn to broader questions of how to improve risk management decision-making by individuals, groups, organizations, institutions, and multi-generation societies with different cultures and norms for cooperation. These chapters examine organizational learning, community resilience, societal risk management, and intergenerational collaboration and justice in managing risks.

Over the past decade, the prospect of climate change resulting from anthropogenic CO₂ has become a matter of growing public concern. Not only is the reduction of CO₂ emissions extremely important, but keeping the cost at a manageable level is a prime priority for companies and the public, alike. The CO₂ capture project (CCP) came together with a common goal in mind: find a technological process to capture CO₂ emissions that is relatively low-cost and able to be expanded to industrial applications. The Carbon Dioxide Capture and Storage Project outlines the research and findings of all the participating companies and associations involved in the CCP. The final results of thousands of hours of research are outlined in the book, showing a successful achievement of the CCP's goals for lower cost CO₂ capture technology and furthering the safe, reliable option of geological storage. The Carbon Dioxide Capture and Storage Project is a valuable reference for any scientists, industrialists, government agencies, and companies interested in a safer, more cost-efficient response to the CO₂ crisis. *Succeeds in tackling the most important issues at the heart of the CO₂ crisis: lower-cost and safer solutions, and making the technology available at an industrial level. *Contains technical papers and findings of all researchers involved in the CO₂ capture and storage project (CCP) *Consolidates thousands of hours of research into a concise and valuable reference work, providing up-to-the minute information on CO₂ capture and under-

ground storage alternatives.

The Seventh Edition of Zumdahl and DeCoste's best-selling INTRODUCTORY CHEMISTRY: A FOUNDATION that combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond. Capturing student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and Chemistry in Focus boxes. The Seventh Edition now adds a questioning pedagogy to in-text examples to help students learn what questions they should be asking themselves while solving problems, offers a revamped art program to better serve visual learners, and includes a significant number of revised end-of-chapter questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Teach your course your way with INTRODUCTORY CHEMISTRY: AN ACTIVE LEARNING APPROACH, 7th Edition. This modular, student-friendly resource allows you to tailor the order of chapters to accommodate your needs, not only by presenting topics so they never assume prior knowledge, but also by including any necessary preview or review information needed to learn that topic. The authors' question-and-answer presentation, which allows students to actively learn chemistry while studying an assignment, is reflected in three words of advice and encouragement repeated throughout the book: Learn It Now! This updated 7th edition leaves no students behind. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Modern Petrochemical Technology A text that explores the essence of petrochemicals and petrochemical technology Modern Petrochemical Technology: Methods, Manufacturing and Applications is a comprehensive resource that provides an overview of the uses for common petrochemical building blocks, a review of the marketplaces, and offers a survey of the technology used to make the key petrochemical building blocks. The book contains both critical information the technologies used to produce petrochemicals, how the various petrochemicals are applied in industry, and provides illustrative examples and problems designed to reinforce the learning about the basic science, engineering, and use of petrochemicals. The book explores three separate petrochemical building block—olefin complexes, aromatic complexes and synthesis gas complexes—and examines the “interconnected” nature of these building blocks. The authors also include information on the olefins productions using steam cracking, paraffin dehydrogenation, and methanol to olefins technologies and describes various methods, commercial processes to produce aromatics such as benzene, toluene and xylene, and much more. This important book: Offers a guide to the critical information on petrochemical producing technologies Includes material on various petrochemicals from the industrial point-of-view Explores the separation processes, membrane technology, absorption technology, liquid-liquid extraction, and more Contains material from a team of noted experts Provides a survey of examples of commercialization applications of petrochemicals Written for chemical engineers, chemists in industry, membrane scientists, and process

engineers, Modern Petrochemical Technology provides an overview of markets and uses for common petrochemical building blocks as well as includes a survey of the technology used to make the key petrochemical building blocks.

Discover all of the fundamental topics of general chemistry in the latest edition of this brief, cost-effective, reader-oriented text. Masterton/Hurley's CHEMISTRY: PRINCIPLES AND REACTIONS, 6e, provides a clear, concise presentation based on the authors' more than 50 years of combined teaching experience. This edition takes you directly to the crux of concepts with simplicity and allows you to efficiently cover all topics found in the typical general chemistry book. New and proven concept-driven examples as well as examples that focus on molecular reasoning and understanding provide important practice. New Chemistry: Beyond the Classroom essays by guest authors demonstrate the relevance of the concepts you are learning and highlight some of the most up-to-date uses of chemistry. A strong, enhanced art program further assists you in visualizing chemical concepts. For the first time, this edition fully integrates OWL (Online Web-based Learning), the homework management system trusted by tens of thousands of students. Integrated end-of-chapter questions and Key Concepts correlate to OWL. An optional e-book of this edition is al-

so available in OWL. To further assist in learning and depth of coverage, the book offers CengageNOW, a Web-based student self-tutorial program. In addition, Go Chemistry™ learning modules developed by award-winning chemists offer mini-lectures and learning tools available for video iPods, MP3 players, and iTunes or CengageNOW to accommodate students like you who are on the go. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Designed for students in Nebo School District, this text covers the Utah State Core Curriculum for chemistry with few additional topics.

Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals. For over 35 years, Foundations of College Chemistry, Alternate 14th Edition has helped readers master the chemistry skills they need to succeed. It provides them with clear and logical explanations of chemical concepts and problem solving. They'll learn how to apply concepts with the help of worked out examples. In addition, Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis.