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Chemist Litres

Class-tested and thoughtfully designed for student engagement, Principles of Organic Chemistry provides the tools and foundations needed by students in a short course or one-semester class on the subject. This book does not dilute the material or rely on rote memorization. Rather, it focuses on the underlying principles in order to make accessible the science that underpins so much of our day-to-day lives, as well as present further study and practice in medical and scientific fields. This book provides context and structure for learning the fundamental principles of organic chemistry, enabling the reader to proceed from simple to complex examples in a systematic and logical way. Utilizing clear and consistently colored figures, Principles of Organic Chemistry begins by exploring the step-by-step processes (or mechanisms) by which reactions occur to create molecular structures. It then describes some of the many ways these reactions make new compounds, examined by functional groups and corresponding common reaction mechanisms. Throughout, this book includes biochemical and pharmaceutical examples with varying degrees of difficulty, with worked answers and without, as well as advanced topics in later chapters for optional coverage. Incorporates valuable and engaging applications of the content to biological and industrial uses Includes a wealth of useful figures and problems to support reader comprehension and study Provides a high quality chapter on stereochemistry as well as advanced topics such as synthetic polymers and spectroscopy for class customization

Inorganic Syntheses McGraw-Hill/Irwin

Organic Chemistry I as a Second Language Translating the Basic Concepts Wiley

Organic Chemistry I as a Second Language John Wiley & Sons

Through-the-wall radar imaging (TWRI) allows police, fire and rescue personnel, first responders, and defense forces to detect, identify, classify, and track the whereabouts of humans and moving objects. Electromagnetic waves are considered the most effective at achieving this objective, yet advances in this multi-faceted and multi-disciplinary technology require taking phenomenological issues into consideration and must be based on a solid understanding of the intricacies of EM wave interactions with interior and exterior objects and structures. Providing a broad overview of the myriad factors involved, namely size, weight, mobility, acquisition time, aperture distribution, power, bandwidth, standoff distance, and, most importantly, reliable performance and delivery of accurate information, Through-the-Wall Radar Imaging examines this technology from the algorithmic, modeling, experimentation, and system design perspectives. It begins with coverage of the electromagnetic properties of walls and building materials, and discusses techniques in the design of antenna elements and array configurations, beamforming concepts and issues, and the use of antenna array with collocated and distributed apertures. Detailed chapters discuss several suitable waveforms inverse scattering approaches and revolve around the relevance of physical-based model approaches in TWRI along with theoretical and experimental research in 3D building tomography using microwave remote sensing, high-frequency asymptotic modeling methods, synthetic aperture radar (SAR) techniques, impulse radars, airborne radar imaging of multi-floor buildings strategies for target detection, and detection of concealed targets. The book concludes with a discussion of how the Doppler principle can be used to measure motion at a very fine level of detail. The book provides a deep understanding of the challenges of TWRI, stressing its multidisciplinary and phenomenological nature. The breadth and depth of topics covered presents a highly detailed treatment of this potentially life-saving technology.

Organic Chemistry ScholarlyEditions

Issues in Chemistry and General Chemical Research: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Chemistry and General Chemical Research. The editors have built Issues in Chemistry and General Chemical Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chemistry and General Chemical Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Chemistry and General Chemical Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

World Meetings McGraw-Hill Science/Engineering/Math

Profiles 168 top medical schools and offers information on admissions criteria, financial aid, and special programs for members of minority groups.

The Literal Meaning of Genesis CRC Press

The Alchemy Key

A Biographical Directory CRC Press

Organic Chemistry, 3rd Edition offers success in organic chemistry requires mastery in two core aspects: fundamental concepts and the skills needed to apply those concepts and solve problems. Students must learn to become proficient at approaching new situations methodically, based on a repertoire of skills. These skills are vital for successful problem solving in organic chemistry. Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems.

Necessity, Use, and Care of Laboratory Dogs at the U.S. Department of Veterans Affairs CRC Press

Written by Neil Allison, the Solutions Manual provides step-by-step solutions for all end of chapter problems which guide students through the reasoning behind each problem in the text.

Organozinc Reagents Springer Nature

Combustion technology has traditionally been dominated by air/fuel combustion. However, two developments have increased the significance of oxygen-enhanced combustion—new technologies that produce oxygen less expensively and the increased importance of

environmental regulations. Advantages of oxygen-enhanced combustion include less pollutant emissions as well as increased energy efficiency and productivity. Oxygen-Enhanced Combustion, Second Edition compiles information about using oxygen to enhance industrial heating and melting processes. It integrates fundamental principles, applications, and equipment design in one volume, making it a unique resource for specialists implementing the use of oxygen in combustion systems. This second edition of the bestselling book has more than doubled in size. Extensively updated and expanded, it covers significant advances in the technology that have occurred since the publication of the first edition. What 's New in This Edition Expanded from 11 chapters to 30, with most of the existing chapters revised A broader view of oxygen-enhanced combustion, with more than 50 contributors from over 20 organizations around the world More coverage of fundamentals, including fluid flow, heat transfer, noise, flame impingement, CFD modeling, soot formation, burner design, and burner testing New chapters on applications such as flameless combustion, steel reheating, iron production, cement production, power generation, fluidized bed combustion, chemicals and petrochemicals, and diesel engines This book offers a unified, up-to-date look at important commercialized uses of oxygen-enhanced combustion in a wide range of industries. It brings together the latest knowledge to assist those researching, engineering, and implementing combustion in power plants, engines, and other applications.

Translating the Basic Concepts Oxford University Press on Demand

The Inorganic Syntheses series provides inorganic chemists with detailed and foolproof procedures for the preparation of important and timely compounds. Volume 33 includes provocative contributions on syntheses of selected supramolecules, useful reagents/ligands, solid state materials/clusters, and other compounds of general interest.

Introduction to Sol-Gel Processing Springer

For many years, laboratory dogs have served as important animal models for biomedical research that has advanced human health. Conducted at the request of the U.S. Department of Veterans Affairs (VA), this report assesses whether laboratory dogs are or will continue to be necessary for biomedical research related to the VA's mission. The report concludes that using laboratory dogs in research at the VA is scientifically necessary for only a few areas of current biomedical research. The report recommends that the VA adopt an expanded set of criteria for determining when it is scientifically necessary to use laboratory dogs in VA biomedical research; that the VA promote the development and use of alternatives to laboratory dogs; and highlights opportunities for the VA to enhance the welfare of laboratory dogs that are being used in biomedical research areas for which they have been deemed necessary.

General Chemistry National Academies Press

Gender inequality is entrenched in the cultural, political, and market systems that operate at household, community, and national levels. Overarching global changes in access to markets, climatic conditions, and the availability of natural resources intensify disparities in income, assets, and power among genders. This book explains these gender dynamics at macro and micro levels through GIS and spatial analysis. Chapter 1 provides an overview of the current role of GIS in the context of gender inequalities, how it still exists globally despite substantial national and international measures that have been taken toward gender equality. It illustrates global and country-level maps of measures of gender inequalities, such as gender equality index, access to basic education, health and life expectancy, equality of economic opportunity, and political empowerment. The global case studies provided in the consequent chapters explore the world of gender inequalities and get directly involved with some of the GIS and mapping applications. Chapter 2 investigates how GIS can be adapted for the criminal justice response to domestic violence (DV) and to eliminate gender-based violence. Chapter 3 discusses applying GIS and spatial analysis to the prevalence and incidence mapping of intimate partner violence (IPV) and geospatial factors that influence help-seeking and resource availability. Chapter 4 discusses the spatial disparity of gender-representation across industry types in the United States. Chapter 5 explores the social and environmental injustice experienced by female migrant workers at Guiyu town, China, in the context of both environmental pollution and governance. Chapter 6 presents a social vulnerability index to identify spatial patterns of social vulnerability and gender inequalities among Mexican households. Chapter 7 presents the United States' opioid crisis over the past two decades and analysis of mortality by gender, race, age, and urbanicity. Chapter 8 discusses the commitment to "leave no one behind" as the heart of the 2030 Agenda for Sustainable Development and identifies inequalities among women and girls by mapping multiple deprivations in Pakistan. Chapter 9 discusses the long-standing challenges in establishing gender parity in the transportation workforce in the United States. Chapter 10 presents a study that utilizes geospatial statistical tools and state-level admission data to examine gender inequalities in higher-education enrollment in Nigeria and investigates the key factors on enrollment. This book fosters engagement with the newest mapping and GIS application in contemporary issues regarding gender inequalities and nurtures recognition of how institutional global, everyday, and intimate spaces are inherently gendered, classed, raced, and sexualized. It demonstrates the spatiality of the politics of gender difference, and the contributions of GIS and spatial analysis to the struggles for equality and social justice. A unique work that Lays out a step-by-step approach to identify relevant GIS applications, spatial methods, data collection, and mapping techniques for gender inequalities research Has a strong international and global perspective. The author is well-informed in global perspectives Investigates the patterns/processes and indicators driving gender inequality at various temporal scales and at comparably detailed resolutions Illustrates finer-scale case studies, appropriate for local programs and interventions, as well as global scale studies contributing to international and national-level policy discussions on gender inequality Since gender inequality is a research area that is very wide and with strands into many academic traditions, this book is aimed at different and diverse academics/research. It is written for geographers, public health practitioners, sociologists, epidemiologists, criminologists, politicians, economists, environmentalists, GIScientists, and health and research professionals interested in applying GIS and spatial analysis to the study of gender inequalities.

The Alchemy Key McGraw-Hill Book Company Limited

A thorough and conscientious commentary on the first three chapters from the Book of Genesis, completed in 415. Augustine's purpose is to explain, to the best of his ability, what the author intended to say about what God did when he made heaven and earth. Contains Books 1-6.

American Men & Women of Science John Wiley & Sons

This package includes a physical copy of Statistics: The Art and Science of Learning from Data by Alan Agresti and Christine Franklin, as well as access to the eText and MyMathLab. Statistics: The Art and Science of Learning from Data, Third Edition, helps you become statistically literate by encouraging you to ask and answer interesting statistical questions. This book takes the ideas that have turned statistics into a central science in modern life and makes them accessible. The Third Edition has been edited for conciseness and clarity to keep you focused on the main concepts. The data-rich examples that feature intriguing human-interest topics now include topic labels to indicate which statistical topic is being applied.

The Thirteenth, Greatest of Centuries Skyhorse

Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS) * at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical

community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volume were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 24 (thesis year 1979) a total of 10,033 theses titles from 26 Canadian and 215 United States universities. We are sure that this broader base for theses titles reported will greatly enhance the value of this important annual reference work. While Volume 24 reports these submitted in 1979, on occasion, certain universities do report theses submitted in previous years but not reported at the time.

Accepted by Colleges and Universities of the United States and Canada. Volume 24 Academic Press

The US Central Intelligence Agency is no stranger to conspiracy and allegations of corruption. Across the globe, violent coups have been orchestrated, high-profile targets kidnapped, and world leaders dispatched at the hands of CIA agents. During the 1960s, on domestic soil, the methods used to protect their interests and themselves at the expense of the American people were no less ruthless. In *CIA Rogues and the Killing of the Kennedys*, Patrick Nolan fearlessly investigates the CIA's involvement in the assassinations of President John F. Kennedy and Senator Robert F. Kennedy—why the brothers needed to die and how rogue intelligence agents orchestrated history's most infamous conspiracy. Nolan furthers the research of leading forensic scientists, historians, and scholars who agree that there remain serious unanswered questions regarding the assassinations of John F. Kennedy fifty years ago and Robert F. Kennedy in 1968. He revisits and refutes what is currently known about Lee Harvey Oswald and Sirhan Bishara Sirhan, and offers readers a compelling profile of the CIA's Richard Helms, an amoral master of clandestine operations with a chip on his shoulder. Bolstered by a foreword by Dr. Henry C. Lee, one of the world's foremost forensic authorities, *CIA Rogues and the Killing of the Kennedys* is an unmatched effort in forensic research and detective work. As the fiftieth anniversary of the JFK assassination approaches, Nolan has made a significant contribution to the literature on that fateful day in Dallas as well as shed light on that dark night at the Ambassador Hotel. Readers interested in conspiracy, the Kennedy family, or American history will find this book invaluable.

ORGANIC CHEMISTRY, 8TH ED (With CD) Princeton Review

The Thirteenth: Greatest of Centuries is a history book by James Joseph Walsh. It depicts all the crucial evolutions, advancements, breakthroughs, problems and institutions of the thirteenth century, dealt here at length and in depth by the author...First published in 1913, it remains an indispensable look at a great century with almost everything that comes to mind having been included: early universities, the church's impact, the strides made in public schooling, technical and economic developments, significant thinkers and writers!

Statistics: the Art and Science of Learning from Data Springer Science & Business Media

Wetland ecosystems maintain a fragile balance of soil, water, plant, and atmospheric components in order to regulate water flow, flooding, and water quality. Marginally covered in traditional texts on biogeochemistry or on wetland soils, *Biogeochemistry of Wetlands* is the first to focus entirely on the biological, geological, physical, and chemical

Manual of Microbiological Culture Media Createspace Independent Publishing Platform

Aimed at the single semester organic chemistry course, this text emphasizes understanding rather than memorization, focusing on the mechanisms by which organic reactions take place.

A Concise Introduction to Logic John Wiley & Sons

This book is open access under a CC BY-NC 2.5 license. On April 22, 1915, the German military released 150 tons of chlorine gas at Ypres, Belgium. Carried by a long-awaited wind, the chlorine cloud passed within a few minutes through the British and French trenches, leaving behind at least 1,000 dead and 4,000 injured. This chemical attack, which amounted to the first use of a weapon of mass destruction, marks a turning point in world history. The preparation as well as the execution of the gas attack was orchestrated by Fritz Haber, the director of the Kaiser Wilhelm Institute for Physical Chemistry and Electrochemistry in Berlin-Dahlem. During World War I, Haber transformed his research institute into a center for the development of chemical weapons (and of the means of protection against them). Bretislav Friedrich and Martin Wolf (Fritz Haber Institute of the Max Planck Society, the successor institution of Haber's institute) together with Dieter Hoffmann, Jürgen Renn, and Florian Schmaltz (Max Planck Institute for the History of Science) organized an international symposium to commemorate the centenary of the infamous chemical attack. The symposium examined crucial facets of chemical warfare from the first research on and deployment of chemical weapons in WWI to the development and use of chemical warfare during the century hence. The focus was on scientific, ethical, legal, and political issues of chemical weapons research and deployment — including the issue of dual use — as well as the ongoing effort to control the possession of chemical weapons and to ultimately achieve their elimination. The volume consists of papers presented at the symposium and supplemented by additional articles that together cover key aspects of chemical warfare from 22 April 1915 until the summer of 2015.