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The Case against Fluoride Paul Connett 2010-10-07 When the U.S. Public Health Service endorsed water fluoridation in 1950, there was little evidence of its safety. Now, six decades later and after most countries have rejected the practice, more than 70 percent of Americans, as well as 200 million people worldwide, are drinking fluoridated water. The Center for Disease Control and the American Dental Association continue to promote it--and even mandatory statewide water fluoridation--despite increasing evidence that it is not only unnecessary, but potentially hazardous to human health. In this timely and important book, Dr. Paul Connett, Dr. James Beck, and Dr. H. Spedding Micklem take a new look at the science behind water fluoridation and argue that just because the dental and medical establishments endorse a public health measure doesn't mean it's safe. In the case of water fluoridation, the chemicals that go into the drinking water that more than 180 million people drink each day are not even pharmaceutical grade, but rather a hazardous waste product of the phosphate fertilizer industry. It is illegal to dump this waste into the sea or local surface water, and yet it is allowed in our drinking water. To make matters worse, this program receives no oversight from the Food and Drug Administration, and the Environmental Protection Agency takes no responsibility for the practice. And from an ethical standpoint, say the authors, water fluoridation is a bad medical practice: individuals are being forced to take medication without their informed consent, there is no control over the dose, and no monitoring of possible side effects. At once painstakingly documented

and also highly readable, *The Case Against Fluoride* brings new research to light, including links between fluoride and harm to the brain, bones, and endocrine system, and argues that the evidence that fluoridation reduces tooth decay is surprisingly weak.

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neutrons, electrons, and valence electrons. *The Changing Energy Mix* Paul Meier 2020-09-21 Energy comes in many shapes and forms, from wind, solar power, geothermal, and biomass to coal, natural gas, and petroleum. The energy we consume is constantly changing, but the use of these resources-whether renewable or nonrenewable-has long-term impacts on our planet. While there has been this recent shift to renewable energy within the United States, the worldwide demand for all energy types continues to increase at a rapid rate. In fact, it has increased by 84% over the past twenty years. Despite their dwindling supply, these resources are still heavily relied on today. Coal still accounts for 30% of the electricity generated by the United States, even though natural gas is now the primary energy used to produce electricity. Likewise, only 7% of electricity usage worldwide is linked to solar and wind energy. In *The Changing Energy Mix*, Paul F. Meier compares twelve renewable and nonrenewable energy types using twelve common technical criteria. These criteria span projected reserves, cost to the consumer and supplier, energy balances, environmental issues, land area required, and lasting impacts. While explaining the pros and cons of these resources, Meier takes readers through the history of energy in the United States and world. He provides insight into energy sources, such as wind-powered and solar-powered electricity (which did not exist until the mid and late 80s, respectively), and he explains the constantly evolving world of energy. Breaking down the potential promises and struggles of transitioning to a more renewable energy-based economy, Meier explains the positive and negative implications of these various sources of energy. The resulting book equips readers with a unique understanding of the history, availability, technology, implementation cost, and concerns of renewable and nonrenewable energy.

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Crises in Oil, Gas and Petrochemical Industries

Mohammad Reza Rahimpour 2023-07-13 Crises in Oil, Gas and Petrochemical Industries: Disasters and Environmental Challenges provides an overview of both natural and manmade disasters occurring in oil, gas and petrochemical industries while also covering special solutions based on their types. This volume includes the effects of natural disasters such as earthquakes, floods and hurricanes as well as manmade incidents including fire events, explosions and the release of dust and toxic substances on various related units and plants. In addition, the long-term side effects on both humans and the environment resulted from these industries are presented. Problems such as releasing wastes and venting gases into the environment and challenges from overusing the natural resources and producing noise pollutants are also discussed in detail. Introduces the effects of natural disasters on the oil, gas and petrochemical industries Describes the effect of manmade disasters on oil, gas and petrochemical industries Discusses the long-term side effects of oil, gas and petrochemical units on humans and the environments

Indoor Environment and Health

Orhan
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Korhan 2019-09-25 A shelter is one of the physiological needs according to Maslow's Hierarchy of Needs, which lies at the bottom of the pyramid. People spend around 90% of their time in shelters, or in today's words: buildings. They sleep, eat, work, relax, exercise, play, are born, and die in these buildings. In fact, they "live" within walls. Therefore, an indoor environment is crucial for their health and safety. This book, therefore, addresses the issues related to the impact of a sustainable healthy and comfortable indoor environment on the quality of life, and perceives the required indoor conditions for productivity and effectiveness. Thereby, this book is designed to include issues and extensive discussions on thermal comfort, indoor air quality, visual comfort, acoustic comfort, productivity, and indoor health and safety. The concepts of heating, ventilation, air conditioning, external temperature, air pollution, sick building, indoor pollutants, illumination, glare, indoor lighting, daylight, noise, construction materials, sound intensity, and furniture on the indoor environment are described in detail in this book.

Renewable Energy Resources John Twidell 2021-11-30 Renewable Energy Resources is a numerate and quantitative text. It covers the many renewables technologies implemented worldwide by harnessing sustainable resources, mitigating pollution and climate change, and providing cost effective services. This fourth edition is extensively updated by John Twidell with global developments as underpinned by fundamental analysis and illustrated by case studies and worked examples. Efficiency of end-use and cost-effectiveness is emphasized. Each chapter begins with fundamental scientific theory, and then considers applications, environmental impact and socio-economic aspects, before concluding with Quick Questions for self-revision, Problems and new Exercises. Basic theory underlying the technologies is covered in succinct Reviews of electrical power, fluid dynamics, heat transfer and solid-state physics. Common symbols and

cross-referencing apply throughout; essential data are tabulated in Appendices. Renewable Energy Resources supports multidisciplinary master's degrees in science and engineering, and specialist modules at undergraduate level. Practicing scientists and engineers will find it a useful introductory text and reference book.

Green Organic Chemistry and its Interdisciplinary Applications Vera M. Kolb 2016-06-08 Green Organic Chemistry and Its Interdisciplinary Applications covers key developments in green chemistry and demonstrates to students that the developments were most often the result of innovative thinking. Using a set of selected experiments, all of which have been performed in the laboratory with undergraduate students, it demonstrates how to optimize and develop green experiments. The book dedicates each chapter to individual applications, such as Engineering The chemical industry The pharmaceutical industry Analytical chemistry Environmental chemistry Each chapter also poses questions at the end, with the answers included. By focusing on both the interdisciplinary applications of green chemistry and the innovative thinking that has produced new developments in the field, this book manages to present two key messages in a manner where they reinforce each other. It provides a single and concise reference for chemists, instructors, and students for learning about green organic chemistry and its great and ever-expanding number of applications.

Preventing Chemical Weapons Lijun Shang 2018-08-20 The life and chemical sciences are in the midst of a period of rapid and revolutionary transformation that will undoubtedly bring societal benefits but also have potentially malign applications, notably in the development of chemical weapons. Such concerns are exacerbated by the unstable international security environment and the changing nature of armed conflict, which could fuel a desire by certain States to retain and use existing chemical weapons, as well as increase State interest in creating new weapons; whilst a

broader range of actors may seek to employ diverse toxic chemicals as improvised weapons. Stark indications of the multi-faceted dangers we face can be seen in the chemical weapons attacks against civilians and combatants in Iraq and Syria, and also in more targeted chemical assassination operations in Malaysia and the UK. Using a multi-disciplinary approach, and drawing upon an international group of experts, this book analyses current and likely near-future advances in relevant science and technology, assessing the risks of their misuse. The book examines the current capabilities, limitations and failures of the existing international arms control and disarmament architecture – notably the Chemical Weapons Convention – in preventing the development and use of chemical weapons. Through the employment of a novel Holistic Arms Control methodology, the authors also look beyond the bounds of such treaties, to explore the full range of international law, international agreements and regulatory mechanisms potentially applicable to weapons employing toxic chemical agents, in order to develop recommendations for more effective routes to combat their proliferation and misuse. A particular emphasis is given to the roles that chemical and life scientists, health professionals and wider informed activist civil society can play in protecting the prohibition against poison and chemical weapons; and in working with States to build effective and responsive measures to ensure that the rapid scientific and technological advances are safeguarded from hostile use and are instead employed for the benefit of us all.

World Biodiesel Policies and Production Hyunsoo Joo 2019-07-31 This book presents the evolution of biodiesel technologies along with government policies of major biodiesel producing countries with their backgrounds, impacts, changes, and other energy forms. Biodiesel feedstock and biodiesel production technologies including green algae and methanol are presented as separate topics. Changes in the feedstock types and the corresponding technologies are presented,

and their impacts on the biodiesel policies are explained. The life cycle analysis (LCA) in research and policy design of biodiesel is discussed and the findings are given for different feedstocks in terms of greenhouse gases, energy, and other impact categories.

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Pharmaceutical Process Development John Blacker 2011-08-17 Pharmaceutical process research and development is an exacting, multidisciplinary effort but a somewhat neglected discipline in the chemical curriculum. This book presents an overview of the many facets of process development and how recent advances in synthetic organic chemistry, process technology and chemical engineering have impacted on the manufacture of pharmaceuticals. In 15 concise chapters the book covers such diverse subjects as route selection and economics, the interface with medicinal chemistry, the impact of green chemistry, safety, the crucial role of physical organic measurements in gaining a deeper understanding of chemical behaviour, the role of the analyst, new tools and innovations in reactor design, purification and separation, solid state chemistry and its role in formulation. The book ends with an assessment of future trends and challenges. The book provides a valuable overview of: both early and late stage chemical

development, how safe and scaleable synthetic routes are designed, selected and developed, the importance of the chemical engineering, analytical and manufacturing interfaces, the key enabling technologies, including catalysis and biocatalysis, the importance of the green chemical perspective and solid form issues. The book, written and edited by experts in the field, is a contemporary, holistic treatise, with a logical sequence for process development and mini-case histories within the chapters to bring alive different aspects of the process. It is completely pharmaceutical themed, encompassing all essential aspects, from route and reagent selection to manufacture of the active compound. The book is aimed at both graduates and postgraduates interested in a career in the pharmaceutical industry. It informs them about the breadth of the work carried out in chemical research and development departments, and gives them a feel for the challenges involved in the job. The book is also of value to academics who often understand the drug discovery arena, but have far less appreciation of the drug development area, and are thus unable to advise their students about the relative merits of careers in chemical development versus discovery.

Medicinal Chemistry of Anticancer Drugs Carmen Avendaño 2023-04-28 This third edition of Medicinal Chemistry of Anticancer Drugs, provides an updated resource for students and researchers from the point of view of medicinal chemistry and drug design, focusing on the mechanism of action of antitumor drugs from the molecular level, and on the relationship between chemical structure and chemical and biochemical reactivity of antitumor agents. Antitumor chemotherapy is a very active field of research, and a huge amount of information on the topic is generated every year. This new edition includes updated sections on the hot topic of cancer immunotherapy, cancer polypharmacology, multitargeted cancer therapy, medicinal chemistry of cancer diagnosis, theranostic anticancer agents, and pre-mRNA processing in cancer.

Although many books are available that deal with clinical aspects of cancer chemotherapy, this book provides a unique and valuable perspective from the point of view of medicinal chemistry and drug design. It will be useful to undergraduate and postgraduate students of medicinal chemistry, pharmacology, biological chemistry, pharmacy and other health sciences. Researchers and practitioners will find a comprehensive treatment of the topic and a large number of references to reviews and the primary literature. Provides a resource that is organized consistently based on targets and mechanisms of action from a molecular point-of-view Focuses on the relationship between chemical structure and chemical and biochemical reactivity of antitumor agents, providing a rationalization on the action of these type of drugs and the design of new active structures Features a large number of color figures which give information in a clear-and-concise way Includes extensive references to review articles and primary literature Includes updated sections on the hot topic of cancer immunotherapy, cancer polypharmacology, multitargeted cancer therapy, medicinal chemistry of cancer diagnosis, theragnostic anticancer agents, and pre-mRNA processing in cancer

Advanced Organic Chemistry Francis A. Carey 2013-11-11 The purpose of this edition, like that of the earlier ones, is to provide the basis for a deeper understanding of the structures of organic compounds and the mechanisms of organic reactions. The level is aimed at advanced undergraduates and beginning graduate students. Our goals are to solidify the student's understanding of basic concepts provided by an introduction to organic chemistry and to present more information and detail, including quantitative information, than can be presented in the first course in organic chemistry. The first three chapters consider the fundamental topics of bonding theory, stereochemistry, and conformation. Chapter 4 discusses the techniques that are used to study and characterize reaction mechanisms. Chapter

9 focuses on aromaticity and the structural basis of aromatic stabilization. The remaining chapters consider basic reaction types, including substituent effects and stereochemistry. As compared to the earlier editions, there has been a modest degree of reorganization. The emergence of free-radical reactions in synthesis has led to the inclusion of certain aspects of free-radical chemistry in Part B. The revised chapter, Chapter 12, emphasizes the distinctive mechanistic and kinetic aspects of free-radical reactions. The synthetic applications will be considered in Part B. We have also split the topics of aromaticity and the reactions of aromatic compounds into two separate chapters, Chapters 9 and 10. This may facilitate use of Chapter 9, which deals with the nature of aromaticity, at an earlier stage if an instructor so desires.

Removal of Toxic Pollutants through Microbiological and Tertiary Treatment

Maulin P. Shah 2020-08-20 Removal of Toxic Pollutants through Microbiological and Tertiary Treatment: New Perspectives offers a current account of existing advanced oxidation strategies - including their limitations, challenges, and potential applications - in removing environmental pollutants through microbiological and tertiary treatment methods. The book introduces new trends and advances in environmental bioremediation technology, with thorough discussion of recent developments in the field. Updated information as well as future research directions in the field of bioremediation of industrial wastes is included. This book is an indispensable guide to students, researchers, scientists, and professionals working in fields such as microbiology, biotechnology, environmental sciences, ecotoxicology, and environmental remediation. The book also serves as a helpful guide for waste management professionals and those working on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability. Introduces various treatment schemes, including microbiological and tertiary technologies for bioremediation of

environmental pollutants and industrial wastes Includes pharmaceutical wastewater, oil refinery wastewater, distillery wastewater, tannery wastewater, textile wastewater, mine tailing wastes, plastic wastes, and more Describes the role of relatively new treatment technologies and their approaches in bioremediation, including molecular and protein engineering technologies, microbial enzymes, bio surfactants, plant-microbe interactions, and genetically engineered organisms Provides many advanced technologies in the field of bioremediation and phytoremediation, including electro-bioremediation technology, microbial fuel cell technology, nano-bioremediation technology, and phytotechnologies

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Chemical Energy from Natural and Synthetic Gas Yatish T. Shah 2017-03-16 Commercial development of energy from renewables and nuclear is critical to long-term industry and environmental goals. However, it will take time for them to economically compete with existing fossil fuel energy resources and their infrastructures. Gas fuels play an important role during and beyond this

transition away from fossil fuel dominance to a balanced approach to fossil, nuclear, and renewable energies. Chemical Energy from Natural and Synthetic Gas illustrates this point by examining the many roles of natural and synthetic gas in the energy and fuel industry, addressing it as both a "transition" and "end game" fuel. The book describes various types of gaseous fuels and how they are recovered, purified, and converted to liquid fuels and electricity generation and used for other static and mobile applications. It emphasizes methane, syngas, and hydrogen as fuels, although other volatile hydrocarbons are considered. It also covers storage and transportation infrastructure for natural gas and hydrogen and methods and processes for cleaning and reforming synthetic gas. The book also deals applications, such as the use of natural gas in power production in power plants, engines, turbines, and vehicle needs. Presents a unified and collective look at gas in the energy and fuel industry, addressing it as both a "transition" and "end game" fuel. Emphasizes methane, syngas, and hydrogen as fuels. Covers gas storage and transport infrastructure. Discusses thermal gasification, gas reforming, processing, purification and upgrading. Describes biogas and bio-hydrogen production. Deals with the use of natural gas in power production in power plants, engines, turbines, and vehicle needs.

The Chemistry of Connection Patrick Holford 2016-09-06 Acclaimed author Patrick Holford has spent the last 40 years exploring what it means to be 100% healthy. In The Chemistry of Connection he shares deep wisdom that will help you to feel fully alive and awake, and to live a purposeful life. This book explores elemental, chemical, psychological, social, philosophical, ecological, sexual, and spiritual avenues in the search for a deeper understanding and experience of connection, also finding connections between cultural, scientific, and spiritual traditions in the search for higher understanding. In this book you will discover how to: •Wake up from disconnection to

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Ibogaine Geoffrey A. Cordell 2001-09-28 This book presents the Proceedings from the First International Conference on Ibogaines, held in November of 1999 at New York University's School of Medicine. In essence, it presents significant new data on neurobiological, clinical, sociocultural, and policy aspects of ibogaine. Ibogaine is a natural product derived from the bark of the root of the African shrub *Tabernaemontana iboga*. It has a history of use as a medicinal and ceremonial agent in West Central Africa, and has been alleged to be effective as a treatment for substance dependence. The study of Ibogaine may shed light on the neurobiology of addiction and lead to the development of new medication for the treatment of addiction. Currently, there is lack of formal approval for the use of ibogaine, and the demand of the addicts themselves has led to a distinctive unofficial network which has provided ibogaine treatment in non-medical settings. If critical safety concerns can be adequately addressed, ibogaine may provide an inexpensive and practical treatment approach, well adapted to environments where resources are severely limited and there is pressing need for clinical services for heroin addicts, such as Eastern Europe. This is a paperback edition of Volume 56 of *The Alkaloids* (ISBN: 0-12-469556-6) edited by Geoffrey A. Cordell, University of Illinois at Chicago, U.S.A.

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