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Industrial Wastewater Treatment, Recycling and Reuse Feb 16 2020 Industrial Wastewater Treatment, Recycling and Reuse is an accessible reference to assist you when handling wastewater treatment and recycling. It features an instructive compilation of methodologies, including advanced physico-chemical methods and biological methods of treatment. It focuses on recent industry practices and preferences, along with newer methodologies for energy generation through waste. The book is based on a workshop run by the Indus MAGIC program of CSIR, India. It covers advanced processes in industrial wastewater treatment, applications, and feasibility analysis, and explores the process intensification approach as well as implications for industrial applications. Techno-economic feasibility evaluation is addressed, along with a comparison of different approaches illustrated by specific case studies. Industrial Wastewater Treatment, Recycling and Reuse introduces you to the subject with specific reference to problems currently being experienced in different industry sectors, including the petroleum industry, the fine chemical industry, and the specialty chemicals manufacturing sector. Provides practical solutions for the treatment and recycling of industrial wastewater via case studies Instructive articles from expert authors give a concise overview of different physico-chemical and biological methods of treatment, cost-to-benefit analysis, and process comparison Supplies you with the relevant information to make quick process decisions

**Peptide Chemistry and Drug Design** Jun 02 2021 This book focuses on peptides as drugs, a growing area of pharmaceutical research and development. It helps readers solve problems of discovering, developing, producing, and delivering peptide-based drugs. • Identifies promising new areas in peptide drug discovery • Includes chapters on discovery from natural sources, metabolic modification, and drug delivery • Overviews separation methods and techniques for analysis, bond formation, and purification • Offers readers both a professional reference and a text or resource for graduate-level students

*The Matter Factory* Mar 11 2022 White coats, Bunsen burners, beakers, flasks, and pipettes—the furnishings of the chemistry laboratory are familiar to most of us from our school days, but just how did these items come to be the crucial tools of science? Examining the history of the laboratory, Peter J. T. Morris offers a unique way to look at the history of chemistry itself, showing how the development of the laboratory helped shape modern chemistry. Chemists, Morris shows, are one of the leading drivers of innovation in laboratory design and technology. He tells of fascinating lineages of invention and innovation, for instance, how the introduction of coal gas into Robert Wilhelm Bunsen's laboratory led to the eponymous burner, which in turn led to the development of atomic spectroscopy. Comparing laboratories across eras, from the furnace-centered labs that survived until the late eighteenth century to the cleanrooms of today, he shows how the overlooked aspects of science—the architectural design and innovative tools that have facilitated its practice—have had a profound impact on what science has been able to do and, ultimately, what we have been able to understand.

**INTERMEDIATE I YEAR CHEMISTRY(English Medium) TEST PAPERS** Aug 04 2021 Intermediate second Year CHEMISTRY Test papers Issued by Board of Intermediate Education w.e.f 2013-2014.

**Micro and Nano Fabrication** Apr 19 2020 For Microelectromechanical Systems (MEMS) and Nanoelectromechanical Systems (NEMS) production, each product requires a unique process technology. This book provides a comprehensive insight into the tools necessary for fabricating MEMS/NEMS and the process technologies applied. Besides, it describes enabling technologies which are necessary for a successful production, i.e., wafer planarization and bonding, as well as contamination control.

**Comprehensive Medicinal Chemistry III** May 01 2021 Comprehensive Medicinal Chemistry III provides a contemporary and forward-looking critical analysis and summary of recent developments, emerging trends, and recently identified new areas where medicinal chemistry is having an impact. The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges. These include drug targeting, biomolecular therapeutics, development of chemical biology tools, data collection and analysis, in silico models as predictors for biological properties, identification and validation of new targets, approaches to quantify target engagement, new methods for synthesis of drug candidates such as green chemistry, development of novel scaffolds for drug discovery, and the role of regulatory agencies in drug discovery. Reviews the strategies, technologies, principles, and applications of modern medicinal chemistry Provides a global and current perspective of today's drug discovery process and discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal essays reviewing the discovery and development of key drugs

**Sampling and Monitoring for the Mine Life Cycle** Feb 27 2021 Sampling and Monitoring for the Mine Life Cycle provides an overview of sampling for environmental purposes and monitoring of environmentally relevant variables at mining sites. It focuses on environmental sampling and monitoring of surface water, and also considers groundwater, process water streams, rock, soil, and other media including air and biological organisms. The handbook includes an appendix of technical summaries written by subject-matter experts that describe field measurements, collection methods, and analytical techniques and procedures relevant to environmental sampling and monitoring. The sixth of a series of handbooks on technologies for management of metal mine and metallurgical process drainage, this handbook supplements and enhances current literature and provides an awareness of the critical components and complexities involved in environmental sampling and monitoring at the mine site. It differs from most information sources by providing an approach to address all types of mining influenced water and other sampling media throughout the mine life cycle. Sampling and Monitoring for the Mine Life Cycle is organized into a main text and six appendices that are an integral part of the handbook. Sidebars and illustrations are included to provide additional detail about important concepts, to present examples and brief case studies, and to suggest resources for further information. Extensive references are included.

**Chemical Control** Jun 14 2022 This thoroughly researched study highlights the international community's failure to regulate contemporary state research, development, marketing and/or deployment of riot control agents and incapacitating chemical agent weapons.

**The Chemical Weapons Convention** Feb 10 2022 The Chemical Weapons Convention is one of the cornerstone disarmament and arms control agreements, and the only global and comprehensive disarmament treaty that is being verified by an international agency. This Commentary assesses the provisions of the Convention and its implementation, with cross-cutting chapters providing a broader analysis.

**Detection of Chemical, Biological, Radiological and Nuclear Agents for the Prevention of Terrorism** Nov 19 2022 This NATO-ASI installment is designed to provide an advanced overview for doctoral and post-doctoral candidates of the state-of-the-art technologies for bio-detection. The main objective of the work aims at providing readers with the latest developments necessary to successfully understand the CBRN Agents and their associated biotechnologies. The core methods focused on are mass spectrometry (including chromatographic and electrophoretic separation) and comparisons to spectroscopic, immunological and molecular analysis of chemical, biological and nuclear agents.

Handbook of Polymers for Pharmaceutical Technologies, Structure and Chemistry Oct 14 2019 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life. Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications. Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties. Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe. This 4-part set of books contains precisely referenced chapters, emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies. The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a

future direction in the pharmaceutical industry. Each volume offer deep insight into the subject being treated. Volume 1: Structure and Chemistry Volume 2: Processing and Applications Volume 3: Biodegradable Polymers Volume 4: Bioactive and Compatible Synthetic/Hybrid Polymers

**Literature and Chemistry** Jul 23 2020 Literature and Chemistry: Elective Affinities investigates literary and chemical encounters, from medieval alchemy to contemporary science fiction, in works of the likes of Dante, Goethe, Baudelaire and Dag Solstad as well as in literary writing of scientists such as Humphry Davy, Ludwig Boltzmann and Oliver Sachs. Sixteen authors break new ground in demonstrating chemistry's particular status as one of the sciences in which humanities should interest itself, the overlaps and reciprocities of the two fields, and - perhaps most importantly - chemistry's role in the production of narrative, metaphor, and literary form. The anthology makes the silent presence of chemistry perceptible, uncovering its historical and present appeal to material sensitivity, imagination, and creativity, as well as its call for philosophical and ethical concern, and for wonder.

**Encyclopedia of Food Safety** Nov 26 2020 With the world's growing population, the provision of a safe, nutritious and wholesome food supply for all has become a major challenge. To achieve this, effective risk management based on sound science and unbiased information is required by all stakeholders, including the food industry, governments and consumers themselves. In addition, the globalization of the food supply requires the harmonization of policies and standards based on a common understanding of food safety among authorities in countries around the world. With some 280 chapters, the Encyclopedia of Food Safety provides unbiased and concise overviews which form in total a comprehensive coverage of a broad range of food safety topics, which may be grouped under the following general categories: History and basic sciences that support food safety; Foodborne diseases, including surveillance and investigation; Foodborne hazards, including microbiological and chemical agents; Substances added to food, both directly and indirectly; Food technologies, including the latest developments; Food commodities, including their potential hazards and controls; Food safety management systems, including their elements and the roles of stakeholders. The Encyclopedia provides a platform for experts from the field of food safety and related fields, such as nutrition, food science and technology and environment to share and learn from state-of-the-art expertise with the rest of the food safety community. Assembled with the objective of facilitating the work of those working in the field of food safety and related fields, such as nutrition, food science and technology and environment - this work covers the entire spectrum of food safety topics into one comprehensive reference work The Editors have made every effort to ensure that this work meets strict quality and pedagogical thresholds such as: contributions by the foremost authorities in their fields; unbiased and concise overviews on a multitude of food safety subjects; references for further information, and specialized and general definitions for food safety terminology In maintaining confidence in the safety of the food supply, sound scientific information is key to effectively and efficiently assessing, managing and communicating on food safety risks. Yet, professionals and other specialists working in this multidisciplinary field are finding it increasingly difficult to keep up with developments outside their immediate areas of expertise. This single source of concise, reliable and authoritative information on food safety has, more than ever, become a necessity

*Governing by fake news* Dec 20 2022 What are Islamic State is seeking to create a civil war in France; that Syrian President Bashar al-Assad used chemical weapons; that Vladimir Putin is trying to destabilise our democracies; that terrorism has struck France, not for what it does, but for what it is; that the genocide in Darfur has claimed 400,000 victims?... Literally none, but these assertions are enough to establish the foreign policy of Western countries. The author, a former agent of the Swiss strategic intelligence service, reviews the main contemporary conflicts that Western countries have managed with fake news over the last thirty years. Jacques Baud, a colonel, chemical and nuclear weapons expert, trained in counter-terrorism and counter-guerrilla warfare, designed the Geneva International Centre for Humanitarian Demining (GICHD) and its Information Management System for Mine Action (IMSMA). In the service of the United Nations, he served as Chief of Doctrine for Peacekeeping Operations in New York, and was engaged in Africa. In NATO, he led the fight against the proliferation of small arms. He is the author of several books on intelligence, asymmetric warfare and terrorism.

*The Syrian War* Jan 09 2022 A unique collaboration providing an analysis of the conflict in Syria, focusing on the integration between legal and political studies.

*Epigenetic Gene Expression and Regulation* Nov 14 2019 Epigenetic Gene Expression and Regulation reviews current knowledge on the heritable molecular mechanisms that regulate gene expression, contribute to disease susceptibility, and point to potential treatment in future therapies. The book shows how these heritable mechanisms allow individual cells to establish stable and unique patterns of gene expression that can be passed through cell divisions without DNA mutations, thereby establishing how different heritable patterns of gene regulation control cell differentiation and organogenesis, resulting in a distinct human organism with a variety of differing cellular functions and tissues. The work begins with basic biology, encompasses methods, cellular and tissue organization, topical issues in epigenetic evolution and environmental epigenesis, and lastly clinical disease discovery and treatment. Each highly illustrated chapter is organized to briefly summarize current research, provide appropriate pedagogical guidance, pertinent methods, relevant model organisms, and clinical examples. Reviews current knowledge on the heritable molecular mechanisms that regulate gene expression, contribute to disease susceptibility, and point to potential treatment in future therapies Helps readers understand how epigenetic marks are targeted, and to what extent transgenerational epigenetic changes are instilled and possibly passed onto offspring Chapters are replete with clinical examples to empower the basic biology with translational significance Offers more than 100 illustrations to distill key concepts and decipher complex science

**Engineering Chemistry-I (Anna University)** Dec 16 2019 Engineering Chemistry-I serves as a textbook for the first semester course for I year BE/B. Tech students of Anna University, Chennai The book is informative and exhaustive to meet the requirements of students who aim to assimilate authentic knowledge for use during engineering course as well as in their careers. The theoretical portions have been explained in simple language, clear style with lot of solved problems and illustrated diagrams. Academic and industrial communities will find this book a valuable resource. KEY FEATURES • Specifically designed for I year B.E. students of colleges affiliated to Anna University, Chennai. • The chapters are presented in simple language. • Suitable diagrams for clear understanding of the concepts. • The recent developments in the respective fields are included in all the chapters. • Comparative tables are presented where ever two similar concepts arise. • Many solved problems. • Review questions from previous Anna University examinations at the end of each chapter.

*Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics - E-Book* Aug 24 2020 A condensed, easier-to-understand student version of the acclaimed Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 7th Edition uses a laboratory perspective in providing the clinical chemistry fundamentals you need to work in a real-world, clinical lab. Coverage ranges from laboratory principles to analytical techniques and instrumentation, analytes, pathophysiology, and more. New content keeps you current with the latest developments in molecular diagnostics. From highly respected clinical chemistry experts Carl Burtis and David Bruns, this textbook shows how to select and perform diagnostic lab tests, and accurately evaluate results. Authoritative, respected author team consists of two well-known experts in the clinical chemistry world. Coverage of analytical techniques and instrumentation includes optical techniques, electrochemistry, electrophoresis, chromatography, mass spectrometry, enzymology, immunochemical techniques, microchips, automation, and point of care testing. Learning objectives begin each chapter, providing measurable outcomes to achieve after completing the material. Key words are listed and defined at the beginning of each chapter, and bolded in the text. A glossary at the end of the book makes it quick and easy to look up definitions of key terms. More than 500 illustrations plus easy-to-read tables help you understand and remember key concepts. New chapters on molecular diagnostics include the principles of molecular biology, nucleic acid techniques and applications, and genomes and nucleic acid alterations, reflecting the changes in this rapidly evolving field. New content on clinical evaluation of methods, kidney function tests, and diabetes is added to this edition. NEW multiple-choice review questions at the end of each chapter allow you to measure your comprehension of the material. NEW case studies on the Evolve companion website use real-life scenarios to reinforce concepts.

*Syria and the chemical weapons taboo* Apr 12 2022 This book analyses the Syria crisis and the role of chemical weapons in relation to US foreign policy. The Syrian government's use of such weapons and their subsequent elimination has dominated the US response to the conflict, where these

are viewed as particularly horrific arms - a repulsion known as the chemical taboo. On the surface, this would seem to be an appropriate reaction: these are nasty weapons and eradicating them would ostensibly comprise a 'good' move. But this book reveals two new aspects of the taboo that challenge this prevailing view. First, actors use the taboo strategically to advance their own self-interested policy objectives. Second, that applying the taboo to Syria has actually exacerbated the crisis. As such, this book not only provides a timely analysis of Syria, but also a major and original rethink of the chemical taboo, as well as international norms more widely.

**Chemistry of Sustainable Energy** Jan 21 2023 Understanding the chemistry underlying sustainable energy is central to any long-term solution to meeting our future energy needs. Chemistry of Sustainable Energy presents chemistry through the lens of several sustainable energy options, demonstrating the breadth and depth of research being carried out to address issues of sustainability and the gl

**Thermochemical Waste Treatment** Sep 05 2021 This title includes a number of Open Access chapters. Increasing attention is being paid to the valorization of solid wastes—converting them into energy or other useful products. This book describes recent research into methodologies and technologies for managing various forms of solid waste, while at the same time generating energy and revenue with less impact on the environment. Topics include combustion, gasification, pyrolysis, and hydrothermal carbonization. The transition from a fossil fuel-based economy to a more sustainable economy will require a solid foundation of ongoing scientific research. The editor of this compendium, a well-respected researcher in the field, has selected studies that help to build that foundation.

**Practical Aspects of Computational Chemistry III** Jul 15 2022 Theoretical and Computational Chemistry research has made unparalleled advancements in understanding every expanding area of science and technology. This volume presents the state-of-the-art research and progress made by eminent researchers in the area of theoretical computational chemistry and physics. The title mirrors the name of the annual international conference “Conference on Current Trends on Computational Chemistry” (CCTCC) which has become a popular discussion ground for eminent Theoretical and Computational Chemists and has been honored by the presence of several Nobel Laureates. Practical Aspects of Computational Chemistry III is aimed at theoretical and computational chemists, physical chemists, material scientists and those who are eager to apply computational chemistry methods to problems of chemical and physical importance. The book is a valuable resource for undergraduate, graduate and PhD students as well as established researchers.

**Medicinal Chemistry of Chemotherapeutic Agents** Jan 17 2020 Medicinal Chemistry of Chemotherapeutic Agents: A Comprehensive Resource of Anti-infective and Anti-cancer Drugs focuses on the basics and fundamentals of chemistry involved in chemotherapeutic agents. Each chapter comprises distinct chemical classifications that include structure and IUPAC nomenclature, synthetic schemes and routes for each drug, mechanism of the drug action, metabolic pathway and structure–activity relationship (SAR) studies. The book covers current research focused on drug resistance and methods to overcome it, the development of newer drugs belonging to each category of the chemotherapeutic agents, molecules currently under clinical trials, and newly approved drugs, if any. This book will be a valuable resource for academics and researchers, helping them to understand the fundamentals of the medicinal chemistry of the chemotherapeutic agents. Includes current research focused on drug resistance and methods to overcome problems Outlines synthetic schemes and metabolic pathways of chemotherapeutic agents Discusses molecules under clinical trials and newly approved drugs

**Methanol: The Basic Chemical and Energy Feedstock of the Future** Aug 16 2022 Methanol - The Chemical and Energy Feedstock of the Future offers a visionary yet unbiased view of methanol technology. Based on the groundbreaking 1986 publication "Methanol" by Friedrich Asinger, this book includes contributions by more than 40 experts from industry and academia. The authors and editors provide a comprehensive exposition of methanol chemistry and technology which is useful for a wide variety of scientists working in chemistry and energy related industries as well as academic researchers and even decision-makers and organisations concerned with the future of chemical and energy feedstocks.

**Density-Functional Methods for Excited States** May 13 2022 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. Review articles for the individual volumes are invited by the volume editors. Readership: research chemists at universities or in industry, graduate students

**REACH Beyond Borders** Mar 31 2021 This book discusses how much other countries reflect the EU chemical regulation REACH (Registration, Evaluation, Authorization, Restriction of Chemicals), in the context of Europeanization theory. The main hypothesis verified in this book is that more trade with the EU means more Europeanization (as the non-EU companies exporting to the EU have an obligation to comply with EU rules according to the “No data, No Market” REACH provision). This book further points out that non-EU companies voluntarily adopt EU standards while this change has yet to be reflected on the policy level in non-EU countries, mainly for economic reasons. Exploring changes in national chemical regulatory policies among top chemical producers around the World brings new ideas into the process of Europeanization behind EU borders and provides useful material for academia, regulatory experts and export oriented chemical industry.

**Neuropsychopharmacology of Psychosis: Relation of Brain Signals, Cognition and Chemistry** Oct 06 2021 Nothing provided

**Introduction to Forensic Chemistry** Jul 03 2021 Chemistry/Forensic Science Forensic chemistry is a subdiscipline of forensic science, its principles guide the analyses performed in modern forensic laboratories. Forensic chemistry's roots lie in medico-legal investigation, toxicology and microscopy and have since led the development of modern forensic analytic techniques and practices for use in a variety of applications. Introduction to Forensic Chemistry is the perfect balance of testing methods and application. Unlike other competing books on the market, coverage is neither too simplistic, nor overly advanced making the book ideal for use in both undergraduate and graduate courses. The book introduces chemical tests, spectroscopy, advanced spectroscopy, and chromatography to students. The second half of the book addresses applications and methods to analyze and interpret controlled substances, trace evidence, questioned documents, firearms, explosives, environmental contaminants, toxins, and other topics. The book looks at innovations in the field over time including the latest development of new discernible chemical reactions, instrumental tools, methods, and more. Key features: Nearly 300 full-color figures illustrating key concepts and over 20 case studies Addresses all the essential topics without extraneous or overly advanced coverage Includes full pedagogy of chapter objectives, key terms, lab problems, end of chapter questions, and additional readings to emphasize key learning points Includes chemical structures and useful spectra as examples Fulfills the forensic chemistry course requirement in FEPAC-accredited programs Includes a chapter on Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) materials Comprehensive and accessible, without being overly technical, Introduction to Forensic Chemistry will be a welcome addition to the field and an ideal text designed for both the student user and professor in mind. Course ancillaries including an Instructor's Manual with Test Bank and chapter PowerPoint® lecture slides are available with qualified course adoption.

**Ludwig's Applied Process Design for Chemical and Petrochemical Plants** Sep 17 2022 The fourth edition of Ludwig's Applied Process Design for Chemical and Petrochemical Plants, Volume Three is a core reference for chemical, plant, and process engineers and provides an unrivalled reference on methods, process fundamentals, and supporting design data. New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers, double pipe heat exchangers and air coolers. Heat tracer requirements for pipelines and heat loss from insulated pipelines are covered in this new edition, along with batch heating and cooling of process fluids, process integration, and industrial reactors. The book also looks at the troubleshooting of process equipment and corrosion and metallurgy. Assists engineers

in rapidly analyzing problems and finding effective design methods and mechanical specifications Definitive guide to the selection and design of various equipment types, including heat exchanger sizing and compressor sizing, with established design codes Batch heating and cooling of process fluids supported by Excel programs

**Preventing Chemical Weapons** Dec 08 2021 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.

**The Syrian Information and Propaganda War** Oct 26 2020 This book focuses on the propaganda war between the Syrian government and the opposition movement, which excludes the Islamic State and the Kurdish-led SDF. Drawing on international relations, psychology, and media studies, the book encourages readers to question the dominant discourse on the war. The core of the book outlines the propaganda battles over the main paradigms and narratives that framed the war, exploring the shortcomings of those paradigms and narratives, identifying who won the propaganda war and why, and assessing what impact it had on the military side of the war. In particular, it focuses on the role of cognitive bias amongst primary and secondary sources in determining the outcome of the propaganda war, and whether the influence of this propaganda is best explained by effects or limited effects theory. Through explaining the dynamics of the propaganda war, the book encourages readers to critically question the dominant discourse on the war, assists them in understanding primary and secondary reporting on the war, and shows that the impact of the propaganda war is best understood in terms of limited effects theory. The book's main findings are that: i) the opposition won the international propaganda war but failed to win the propaganda war inside Syria; ii) propaganda had relatively little effect on shaping attitudes either inside Syria or internationally (instead, its main effect was to reinforce attitudes that had already been shaped by other factors); and iii) the reality of the war lies between the conflicting paradigms and narratives being promoted by each side.

**Structure Elucidation in Organic Chemistry** Dec 28 2020 Intended for advanced readers, this is a review of all relevant techniques for structure analysis in one handy volume. As such, it provides the latest knowledge on spectroscopic and related techniques for chemical structure analysis, such as NMR, optical spectroscopy, mass spectrometry and X-ray crystallography, including the scope and limitation of each method. As a result, readers not only become acquainted with the techniques, but also the advantages of the synergy between them. This enables them to choose the correct analytical method for each problem, saving both time and resources. Special emphasis is placed on NMR and its application to absolute configuration determination and the analysis of molecular interactions. Adopting a practical point of view, the author team from academia and industry guarantees both solid methodology and applications essential for structure determination, equipping experts as well as newcomers with the tools to solve any structural problem.

**Successful Business Dealings and Management with China Oil, Gas and Chemical Giants** Jun 21 2020 This book focuses on doing businesses successfully with China oil, gas and chemicals companies with real business cases on business management and contract negotiations all under one theme. Drawing on the author's extensive experiences and knowledge of the China oil, gas and chemicals industries, the book presents a comprehensive and practical guide to the China oil industry structure and major Chinese oil companies. It analyses China's oil, gas and chemicals markets and its growth into the largest oil consumption market in the world. It also examines energy security concerns and mitigation strategies to diversify crude import sources. The book also analyses the key domestic and international players in China including the largest state, multinational and national oil companies. It looks at the largest China oil, gas and chemical companies and analyses their profile, business, strategies, leaders with relevant case studies. It then examines successful engagement, negotiation and management with the China giants. The book illustrates with business case studies on successfully negotiating and managing business relations to foster trust and promote cooperation, as well as, the risks and rewards. Business leaders, universities, business schools and government agencies will appreciate the book with its in-depth knowledge and analysis of the China oil, gas and chemical industries together with relevant business cases.

**Physics, Chemistry and Application of Nanostructures** Nov 07 2021 This book presents invited reviews and original short notes of recent results obtained in studies concerning the fabrication and application of nanostructures, which hold great promise for the next generation of electronic, optoelectronic and energy conversion devices. Covering exciting and relatively new topics such as fast-progressing nanoelectronics and optoelectronics, molecular electronics and spintronics, nanophotonics, nanosensors and nanoenergetics as well as nanotechnology and quantum processing of information, this book gives readers a more complete understanding of the practical uses of nanotechnology and nanostructures.

**Nanochemistry for Chemistry Educators** Jan 29 2021 For the first time, this book sets out ways to teach the science of nanochemistry at a level suitable for pre-service and in-service teachers in middle and secondary school. The authors draw upon peer-reviewed science education literature for experiments, activities, educational research, and methods of teaching the subject. The book starts with an overview of chemical nanotechnology, including definition of the basic concepts in nanoscience, properties, types of nanostructured materials, synthesis, characterization, and applications. It includes examples of how nanochemistry impacts our daily lives. This theoretical background is an address for teachers even if they do not have enough information about the subject of nanoscale science. Subsequent chapters present best practices for presenting the material to students in a way that improves their attitudes and knowledge toward nanochemistry and STEM subjects in general. The final chapter includes experiments designed for middle and high school students. From basic science through to current and near-future developments for applications of nanomaterials and nanostructures in medicine, electronics, energy, and the environment, users of the book will find a wealth of ideas to convey nanochemistry in an engaging way to students.

**Chemistry Education** Feb 22 2023 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top-level contributions provides a thorough review of the vibrant field of chemistry education. Highly-experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching, as well as the pivotal role of chemistry for shaping a more sustainable future. Adopting a practice-oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed include best practices, project-based education, blended learning and the role of technology, including e-learning, and science visualization. Hands-on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high-school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively, from experience chemistry professors to secondary school teachers, from educators with no formal training in didactics to frustrated chemistry students.

**Climate Change Mitigation** Oct 18 2022 This title includes a number of Open Access chapters. Climate change is a significant threat to humanity's future. Culturally, politically, economically, and personally, however, we are all deeply embedded in a system that continues to send us on a collision

course that leads directly toward this threat. At this point, climate change is inevitable. What we must do now is to find ways to prepare—and do all we can to slow our race to disaster. This means that a transition to a lower-carbon economy is unavoidable. Biochemical research is vitally necessary for the transition we must make, and it will be an essential component of any climate policy. To that end, the editors have collected within this compendium the most recent and relevant research in this field. Included are: Initial chapters explaining climate change impact and sustainability issues Chapters focusing on biochemicals and biotechnologies that offer potential for offsetting and preparing for climate change A section on the challenges that must be acknowledged, assessed, and overcome A final chapter that offers 12 reasons why safe climate policy is affordable These articles do not merely summarize answers that have already been found. Graduate students and scientific researchers will find these chapters also point the way toward future investigations that are still urgently needed. Policymakers and graduate-level environmental policy students will also find much food for thought within this compendium.

Business Chemistry May 21 2020 A guide to putting cognitive diversity to work Ever wonder what it is that makes two people click or clash? Or why some groups excel while others fumble? Or how you, as a leader, can make or break team potential? Business Chemistry holds the answers. Based on extensive research and analytics, plus years of proven success in the field, the Business Chemistry framework provides a simple yet powerful way to identify meaningful differences between people's working styles. Who seeks possibilities and who seeks stability? Who values challenge and who values connection? Business Chemistry will help you grasp where others are coming from, appreciate the value they bring, and determine what they need in order to excel. It offers practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth understanding of yourself and why you thrive in some work environments and flounder in others. Suppose you had a clearer view on what to do about it so that you could always perform at your best. Imagine you had more insight into what makes people tick and what ticks them off, how some interactions unlock potential while others shut people down. Suppose you could gain people's trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew how to create a work environment where all types of people excel, even if they have conflicting perspectives, preferences and needs. Suppose you could activate the potential benefits of diversity on your teams and in your organizations, improving collaboration to achieve the group's collective potential. Business Chemistry offers all of this--you don't have to leave it up to chance, and you shouldn't. Let this book guide you in creating great chemistry!

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