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Industrial Chemistry is a book that brings the subject matter of a chemistry curriculum to life. Comprehensibly written, it examines the major chemistry performed by industry and looks at how such chemical processes affect our lives. In addition, as each process is presented and examined, there is a significant discussion dedicated to the by-products, pollution, necessary waste generated, and attempts to make each process ecologically friendlier, or , ' greener ' . It bridges the divide between the basic chemistry that students learn in their undergraduate curriculum, and the broader chemical processes that are used in real life.

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 all.

Endorsed by Cambridge International Examinations Covers the entire syllabus for Cambridge International Examinations' International AS and A Level Chemistry (9701). It is divided into separate sections for AS and the A Level making it ideal for students studying both the AS and the A Level and also those taking the AS examinations at the end of their first year. - Explains difficult concepts using language that is appropriate for students around the world - Provides practice throughout the course with carefully selected past paper questions at the end of each chapter

Organophosphorus chemistry is an important discipline within organic chemistry. Phosphorus compounds, such as phosphines, trialkyl phosphites, phosphine oxides (chalcogenides), phosphonates, phosphinates and >P(O)H species, etc., may be important starting materials or intermediates in syntheses. Let us mention the Wittig reaction and the related transformations, the Arbuzov- and the Pudovik reactions, the Kabachnik -- Fields condensation, the Hirao reaction, the Mitsunobu reaction, etc. Other reactions, e.g., homogeneous catalytic transformations or C-C coupling reactions involve P-ligands in transition metal (Pt, Pd, etc.) complex catalysts. The synthesis of chiral organophosphorus compounds means a continuous challenge. Methods have been elaborated for the resolution of tertiary phosphine oxides and for stereoselective organophosphorus transformations. P-heterocyclic compounds, including aromatic and bridged derivatives, P-functionalized macrocycles, dendrimers and low coordinated P-fragments, are also of interest. An important segment of organophosphorus chemistry is the pool of biologically-active compounds that are searched and used as drugs, or as plant-protecting agents. The natural analogue of P-compounds may also be mentioned. Many new phosphine oxides, phosphinates, phosphonates and phosphoric esters have been described, which may find application on a broad scale. Phase transfer catalysis, ionic liquids and detergents also have connections to phosphorus chemistry. Green chemical aspects of organophosphorus chemistry (e.g., microwave-assisted syntheses, solvent-free accomplishments, optimizations, and atom-efficient syntheses) represent a dynamically developing field. Last, but not least, theoretical approaches and computational chemistry are also a strong sub-discipline within organophosphorus chemistry.

This volume follows the successful book, which has helped to introduce and spread the Philosophy of Chemistry to a wider audience of philosophers, historians, science educators as well as chemists, physicists and biologists. The introduction summarizes the way in which the field has developed in the ten years since the previous volume was conceived and introduces several new authors who did not contribute to the first edition. The editors are well placed to assemble this book, as they are the editor in chief and deputy editors of the leading academic journal in the field, Foundations of Chemistry. The philosophy of chemistry remains a somewhat neglected field, unlike the philosophy of physics and the philosophy of biology. Why there has been little philosophical attention to the central discipline of chemistry among the three natural sciences is a theme that is explored by several of the contributors. This volume will do a great deal to redress this imbalance. Among the themes covered is the question of reduction of chemistry to physics, the reduction of biology to chemistry, whether true chemical laws exist and causality in chemistry. In addition more general questions of the nature of organic chemistry, biochemistry and chemical synthesis are examined by specialist in these areas.

The first edition of this book, Chemical Warfare Agents: Toxicity at Low Levels, was published just prior to the terrorist attacks of September 11, 2001. The second edition titled, Chemical Warfare Agents: Pharmacology, Toxicology, and Therapeutics, included new epidemiological and clinical studies of exposed or potentially exposed populations; new treatment concepts and products; improved organization of the national response apparatus addressing the potential for CWA terrorism; and improved diagnostic tests that enable rapid diagnosis and treatment. Since the second edition, the chemical warfare agent community has worked hard to advance research for protection and treatment and develop/improve response approaches for individuals and definitive care. Consequently, in addition to updating previous chapters, Chemical Warfare Agents: Biomedical and Psychological Effects, Medical Countermeasures, and Emergency Response, Third Edition features several new chapters that address the Syrian War, chemical destruction, the Organisation for the Prohibition of Chemical Weapons, biomarkers for chemical warfare agent exposure, field sensors, aircraft decontamination, lung/human on a chip, chemical warfare response decision making, and other research advancements. Features: Includes the most comprehensive coverage of the question of chemical warfare agent use on the battlefield or in terrorism Describes the newest medical interventions, and the latest technologies deployed in the field, as well as developments in the international response to CW usage highlighting recent events in the Middle East Discusses the latest in organizational/interagency partitioning in terms of responsibilities for emergency response, not just in the United States but at the international level--whether prevention, mitigation, medical care, reclamation, or medico-legal aspects of such response Contains the most current research from bench-level experts The third edition contains the most up-to-date and comprehensive coverage of the question of chemical warfare agent employment on the battlefield or in terrorism. Edited by workers that have been in the field for 35+ years, it remains faithful to the scientific "constants," while evaluating and crediting the advances by the industry that have made us safer.

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.

The philosophy of chemistry has emerged in recent years as a new and autonomous field within the Anglo-American philosophical tradition. With the development of this new discipline, Eric Scarrin and Grant Fisher's "Essays in the Philosophy of Chemistry" is a timely and definitive guide to all current thought in this field. This edited volume will serve to map out the distinctive features of the field and its connections to the philosophies of the natural sciences and general philosophy of science more broadly. It will be a reference for students and professional alike. Both the philosophy of chemistry and philosophies of scientific practice alike reflect the splitting of analytical and continental scholastic traditions, and some philosophers are turning for inspiration from the familiar resources of analytical philosophy to influences from the continental tradition and pragmatism. While philosophy of chemistry is practiced very much within the familiar analytical tradition, it is also capable of trail-blazing new philosophical approaches. In such a way, the seemingly disparate disciplines such as the "hard sciences" and philosophy become much more linked.

FORENSIC CHEMISTRY FUNDAMENTALS strives to help scientists & lawyers, & students, understand how their two disciplines come together for forensic science, in the contexts of analytical chemistry & related science more generally, and the common law systems of Canada, USA, UK, the Commonwealth. In this book, forensics is considered more generally than as only for criminal law; workplace health & safety, and other areas are included. And, two issues of Canadian legal process are argued as essays in the final two chapters.

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.

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