

- 1** This question is about reversible reactions.

Sulfur trioxide is produced in a reversible reaction.

The equation for the reaction is:



- 1.1** What is the correct balanced equation for the reaction?

Tick **one** box.

- ☐  $2\text{SO}_2 + \text{O}_2 \rightleftharpoons \text{SO}_3$   
☐  $\text{SO}_2 + 2\text{O} \rightleftharpoons \text{SO}_3$   
☐  $2\text{SO}_2 + \text{O}_2 \rightleftharpoons 2\text{SO}_3$   
☐  $2\text{SO}_2 + 2\text{O}_2 \rightleftharpoons 2\text{SO}_3$

[1 mark]

- 1.2** The reaction of sulfur dioxide and oxygen to form sulfur trioxide is exothermic.

Which of the following statements is true?

Tick **one** box.

- ☐ The activation energy for the reaction of sulfur dioxide with oxygen is negative.  
☐ Sulfur trioxide is colder than sulfur dioxide and oxygen.  
☐ Heating the reaction will cause more sulfur trioxide to form.  
☐ The reaction of sulfur trioxide to form sulfur dioxide and oxygen is endothermic.

[1 mark]

# Chemistry Paper 2 November 2013

**André Schmidt, Stefan Borgwardt**



## **Chemistry Paper 2 November 2013:**

Production Chemicals for the Oil and Gas Industry, Second Edition Malcolm A. Kelland, 2014-03-13 Production chemistry issues result from changes in well stream fluids both liquid and gaseous during processing Since crude oil production is characterized by variable production rates and unpredictable changes to the nature of the produced fluids it is essential for production chemists to have a range of chemical additives available for rectifying issues that would not otherwise be fully resolved Modern production methods the need to upgrade crude oils of variable quality and environmental constraints demand chemical solutions Thus oilfield production chemicals are necessary to overcome or minimize the effects of the production chemistry problems Production Chemicals for the Oil and Gas Industry Second Edition discusses a wide variety of production chemicals used by the oil and gas industry for down hole and topside applications both onshore and offshore Incorporating the large amount of research and applications since the first edition this new edition reviews all past and present classes of production chemicals providing numerous difficult to obtain references especially SPE papers and patents Unlike other texts that focus on how products perform in the field this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance information that is very useful for research and development Each updated chapter begins by introducing a problem such as scale or corrosion for which there is a production chemical The author then briefly discusses all chemical and nonchemical methods to treat the problem and provides in depth descriptions of the structural classes of relevant production chemicals He also mentions when available the environmental properties of chemicals and whether the chemical or technique has been successfully used in the field This edition includes two new chapters and nearly 50 percent more references

The Nano-Micro Interface Marcel Van de Voorde, Matthias Werner, Hans-Jörg Fecht, 2015-01-12 Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules is a dream that can be achieved by nanotechnology As one of the fastest developing and innovative as well as well funded fields in science nanotechnology has already significantly changed the research landscape in chemistry materials science and physics with numerous applications in consumer products such as sunscreens and water repellent clothes It is also thanks to this multidisciplinary field that flat panel displays highly efficient solar cells and new biological imaging techniques have become reality This second enlarged edition has been fully updated to address the rapid progress made within this field in recent years Internationally recognized experts provide comprehensive first hand information resulting in an overview of the entire nano micro world In so doing they cover aspects of funding and commercialization the manufacture and future applications of nanomaterials the fundamentals of nanostructures leading to macroscale objects as well as the ongoing miniaturization toward the nanoscale domain Along the way the authors explain the effects occurring at the nanoscale and the nanotechnological characterization techniques An additional topic on the role of nanotechnology in energy and mobility covers the challenge of developing materials and devices such as electrodes and

membrane materials for fuel cells and catalysts for sustainable transportation Also new to this edition are the latest figures for funding investments and commercialization prospects as well as recent research programs and organizations

*Chemistry for the IB Diploma Second Edition* Richard Harwood, Christopher Coates, Christopher Talbot, 2015-07-31

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*Thom H. Dunning, Jr.* Angela K. Wilson, Kirk A. Peterson, David E. Woon, 2015-05-04 In this Festschrift celebrating the career of Thom H Dunning Jr selected researchers in theoretical chemistry present research highlights on major developments in the field Originally published in the journal Theoretical Chemistry Accounts these outstanding contributions are now available in a hardcover print format as well as a special electronic edition This volume provides valuable content for all researchers in theoretical chemistry and will especially benefit those research groups and libraries with limited access to the journal

The Selected Papers of Sir John Meurig Thomas John Meurig Thomas, 2017-07-07 John Meurig Thomas is a former Director of the Royal Institution of Great Britain a former head of the Department of Physical Chemistry and former Master of Peterhouse University of Cambridge A world renowned solid state materials and surface chemist he has been an educator researcher academic administrator author of university texts government advisor industrial consultant and trustee of national museums in a career spanning over 50 years Recipient of many international awards including the Linus Pauling Willard Gibbs Kapitza Natta Stokes Davy and Faraday medals he is also a fellow of the Royal Society 1977 of the American Philosophical Society 1993 and of ten other national academies He is best known for his fundamental work in heterogeneous catalysis chemical electron microscopy and in the popularisation of science for which in conjunction with his services to chemistry he was knighted 1991 He is also founding editor of three scientific journals and editor or co editor of some 30 monographs A new mineral meurigite was named in his honour 1995 Most recently in 2016 Sir John was awarded the Royal Medal for Physical Sciences by the Royal Society Drawn from over 1200 publications this volume contains a summarised account of Sir John s work with a selection of the new techniques pioneered and discovered by him and his colleagues Also included are popular science articles and various illustrations of techniques which have enhanced our knowledge of many facets of condensed matter science Contributions from 80 peers colleagues former co workers students and friends worldwide who have interacted with or been influenced by him are a tribute to the professional and personal life

of Sir John making this book a unique reflective summary of the work of one of the greatest achievers in modern British physical science      **Neuropsychopharmacology of Psychosis: Relation of Brain Signals, Cognition and Chemistry**

André Schmidt, Stefan Borgwardt, 2015-04-22 Nothing provided      **Encyclopedia of Automotive Engineering**, 2015-03-23

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The EU and Nanotechnologies Tanja Ehnert, 2017-08-10 This book investigates the role of law in confronting major societal transformations embodied by the emergence of nanotechnologies Taking the case of the European Union it explores who the key decision makers in the regulation of nanotechnologies are and how they take decisions The questions are explored through two distinct case studies the food and chemicals sectors The book charts an incremental retreat of the European Union to its executive powers including soft law measures such as agencies guidelines or implementing measures This the author argues results in the Union's fundamental democratic control mechanisms the EU legislature and the Court of Justice of the EU being circumvented The book recommends several immediate proposals to reform EU risk regulation advocating a greater reliance on the European Parliament and outlining measures to increase the transparency of guidance

drafting by EU agencies This important work provides a timely examination of how emerging technologies pose both regulatory and democratic challenges

**Getting India Back on Track** Bibek Debroy, Ashley J Tellis, Reece Trevor, 2014-06-11 Getting India Back on Track brings together some of India's most accomplished analysts to spur a public debate about the reform agenda the new government should pursue in order to return the country to a path of high growth It explores the challenges and opportunities faced by one of the most important yet least understood nations on earth and convenes some of India's most leading policymakers to recommend policies in every major sector of the Indian economy These seventeen focused and concise memoranda offer the next generation of leaders and the general public alike a clear blueprint for India's future

**Metal economy in host-microbe interactions** Frédéric Veyrier, Mathieu Cellier, 2015-06-11 This Research Topic presents knowledge on transition metal metabolism in various infections from the dual perspective of offender and defender 1 Host Nutritional Immunity depriving or poisoning To date the implication of divalent metals have been described in two different immune strategies that aim to fight microbial invaders One consists in depriving microbes of essential divalent metals whereas the other aims at overloading invaders with toxic concentrations of metal The contributions in this section present in different situations various aspects of this metal economy at the host microbe interface Two papers deal with metal homeostasis as hosts interact with bacteria Diaz Ochoa et al 2014 review immunological mechanisms to sequester Fe Mn and Zn in the inflamed gut and strategies of commensals and pathogens to evade mucosal defenses and obtain such nutrients Lisher Giedroc 2013 detail chemical and structural mechanisms to capture Mn an antioxidant used by pathogens to adapt to human hosts and the impact of Fe and Zn on Mn bioavailability during infections The most coveted metal iron is key to nutritional immunity and microbial virulence Using amoeba as model phagocyte Bozzaro et al 2013 present the tug of war between a bacterial predator sequestering intracellular iron to resist invasion and pathogens which elude such defense mechanisms On mammalian defense against intracellular bacteria and protozoan parasites Silva Gomes et al 2013 outline divergent approaches iron withholding to prevent microbial replication or iron based oxidative injury to kill invaders Host may also target invaders with toxic doses of Cu and Zn normally kept at low concentrations Neyrolles et al 2013 present an opinion article on bacterial Zn and Cu poisoning in the context of Mycobacterium tuberculosis infection Chaturvedi Henderson 2014 summarize the specific properties of copper and its toxic effect on bacteria cells Argello et al 2013 review how bacteria integrate homeostatic mechanisms to avoid Cu toxicity by sensing and regulating ion chelation chaperoning and membrane transport 2 Microbial adaptation to host defenses metallo transporters or exporters To overcome host resistance to infection numerous mechanisms have been selected through the course of microbial evolution in particular transporters that can feed the bacteria even at low metal concentration or on the contrary metallo exporters that can expel metals outside the cell to avoid toxic accumulation The articles in this section describe the microbial transport arsenal and its regulation which play major roles to influence metal economy at the host

microbe interface Bacterial and fungal strategies to acquire Fe is the subject of four contributions Liu Biville 2013 discuss erythrocyte parasitism by Bartonella transmitted by arthropod vectors and relying principally on heme capture and oxidative stress defense to cause persistent infections Runyen Janecky 2013 highlights some of the recent findings on heme iron acquisition system and the regulation of their expression in Gram negative pathogens Cornelis Dingemans 2013 recap how Pseudomonas adapts means of iron capture to the type of infection it establishes acute or chronic Caza Kronstad 2013 contrast strategies of virulent bacteria and fungi to subvert host immunity and steal iron from hemoglobin heme transferrin and lactoferrin or elemental iron using specialized uptake systems and siderophores Five papers deal with microbial homeostasis of other metals Mn Ni and Zn Honsa et al 2013 review the roles of importers and exporters of Mn Fe Zn and Cu in Streptococcus pneumoniae gene regulation and tissue specific pathogenesis Guilhen et al 2013 focus on families of exporters and the role of metal efflux in the evolution of Neisseria meningitidis virulence and naso pharyngeal c

*Advancements in Multifunctional Composite Materials* B. K. Behera, Masayuki Takatera, Rajesh Kumar Mishra, 2025-01-13 This book presents select proceedings of the First Indo Japan Textile Research Conference IJTRC 2023 and provides a comprehensive exploration of the transformative field of multifunctional composites in materials engineering The book covers a wide range of topics such as 3D woven composites honeycomb composites woven spacer composites and textile structural composites It showcases the remarkable potential of these materials in various industries ranging from automotive to aerospace and from building construction to marine It also addresses important aspects such as textile waste management electromagnetic passivity and fire resistance This book serves as a valuable resource for researchers postgraduate students and professionals interested in staying at the forefront of multifunctional composite materials Materials for Biofuels Arthur J. Ragauskas, 2014 This invaluable book provides a broad and detailed introduction to the fascinating and hot research subject of transformation of biomass related materials to biofuels Biofuel production can be categorized into a variety of novel conversion and refinery development technologies However biomass recalcitrance is the biggest challenge blocking the way in biofuel conversion This book provides an enlightening view of the frontiers in leading pretreatments downstream enzymatic hydrolysis fermentation technology corrosion issues in biofuel and merging biofuels technology into a pulp mill to pave the way for future large scale biofuel production Official Gazette of the United States Patent Office United States. Patent Office, 1944-12 *Electricity Markets with Increasing Levels of Renewable Generation: Structure, Operation, Agent-based Simulation, and Emerging Designs* Fernando Lopes, Helder Coelho, 2018-02-14 This book describes the common ground between electricity markets EMs and software agents or artificial intelligence generally It presents an up to date introduction to EMs and intelligent agents and offers a comprehensive description of the research advances and key achievements related to existing and emerging market designs to reliably and efficiently manage the potential challenges of variable generation VG Most EMs are unique in their complex relationships between economics and the physics of energy but

were created without the notion that large penetrations of variable generation VG would be part of the supply mix An advanced multi agent approach simulates the behavior of power markets over time particularly markets with large scale penetrations of renewable resources It is intended as a reference book for researchers academics and industry practitioners but given the scope of the chapters and the highly accessible style the book also provides a coherent foundation for several different graduate courses

**Minerals Yearbook** Geological Survey, Interior Department, Mines Bureau, 2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary

*Practical Food Safety* Rajeev Bhat, Vicente M. Gómez-López, 2014-03-31 The past few years have witnessed an upsurge in incidences relating to food safety issues which are all attributed to different factors Today with the increase in knowledge and available databases on food safety issues the world is witnessing tremendous efforts towards the development of new economical and environmentally friendly techniques for maintaining the quality of perishable foods and agro based commodities The intensification of food safety concerns reflects a major global awareness of foods in world trade Several recommendations have been put forward by various world governing bodies and committees to solve food safety issues which are all mainly targeted at benefiting consumers In addition economic losses and instability to a particular nation or region caused by food safety issues can be huge Various non dependent risk factors can be involved with regard to food safety in a wide range of food commodities such as fresh fruits vegetables seafood poultry meat and meat products Additionally food safety issues involves a wide array of issues including processed foods packaging post harvest preservation microbial growth and spoilage food poisoning handling at the manufacturing units food additives presence of banned chemicals and drugs and more Rapid change in climatic conditions is also playing a pivotal role with regard to food safety issues and increasing the anxiety about our ability to feed the world safely *Practical Food Safety Contemporary Issues and Future Directions* takes a multi faceted approach to the subject of food safety covering various aspects ranging from microbiological to chemical issues and from basic knowledge to future perspectives This is a book exclusively designed to simultaneously encourage consideration of the present knowledge and future possibilities of food safety This book also covers the classic topics required for all books on food safety and encompasses the most recent updates in the field Leading researchers have addressed new issues and have put forth novel research findings that will affect the world in the future and suggesting how these should be faced This book will be useful for researchers engaged in the field of food science and food safety food industry personnel engaged in safety aspects and governmental and non governmental agencies involved in establishing guidelines towards establishing safety measures for food and agricultural commodities

**Hydrogen Science and Engineering** Detlef Stolten, Bernd Emonts, 2016-01-04 Authored by 50 top academic government and industry researchers this handbook explores mature evolving technologies for a clean economically viable alternative to non renewable energy In



so doing it also discusses such broader topics as the environmental impact education safety and regulatory developments The text is all encompassing covering a wide range that includes hydrogen as an energy carrier hydrogen for storage of renewable energy and incorporating hydrogen technologies into existing technologies      **Minerals Yearbook** Geological Survey,Interior Department,Mines Bureau,2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary      *Food Processing* Stephanie Clark,Stephanie Jung,Buddhi Lamsal,2014-06-03 **FOOD PROCESSING** Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science      *Universities in the National Innovation Systems* V. V. Krishna,2017-07-31 This volume looks at the role of universities in the National Innovation Systems in economies of the Asia Pacific It examines the tremendous growth of human and knowledge capital made possible by teaching and research excellence in major universities along with how universities are being re positioned as frontiers of innovation in the National Systems of Innovation The chapters assess the impact of globalisation and innovation together with the emergence of new knowledge sites extended to the Asia Pacific region With contributions by experts and academics and key case studies this book will be useful to scholars and researchers in higher education development studies public policy economics business and resource management Asian studies as well as policymakers

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