

Section A

For each question there are four possible answers, A, B, C and D. Choose the one you consider to be correct.

- 1 Which equation correctly represents the enthalpy change of atomisation of iodine?



- 2 What is the second electron affinity of oxygen?
Use the data below to determine your answer.

	$\Delta H \text{ kJ/mol}$
Enthalpy of formation of calcium oxide	-636
Lattice enthalpy of calcium oxide	-3401
Second ionisation energy of calcium	+1100
First ionisation energy of calcium	+590
Enthalpy of atomisation of calcium	+177
Enthalpy of atomisation of oxygen	+249
First electron affinity of oxygen	-141

A $+790 \text{ kJ/mol}$

B -790 kJ/mol

C $+1\,039 \text{ kJ/mol}$

D $-1\,039 \text{ kJ/mol}$

- 3 Why does the enthalpy change of neutralisation of oleic acid, $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{CO}_2\text{H}$, with aqueous ammonia differ from the theoretical value of $-57.2 \text{ kJ/mol}^{-1}$?

A Oleic acid and ammonia do not react in the ratio 1:1.

B Oleic acid is unsaturated therefore its enthalpy of neutralisation is more exothermic.

C Energy is required to ionise oleic acid and ammonia.

D Ammonia is completely hydrolysed.

June 2013 Chemistry Paper 3

Joseph Fiksel, Joseph R. Fiksel



June 2013 Chemistry Paper 3:

Materials Processing Fundamentals 2023 Samuel Wagstaff,Alexandra Anderson,Adrian S. Sabau,2023-02-05 This volume covers various aspects of the fundamentals synthesis analysis design monitoring and control of metals materials and metallurgical processes and phenomena Topics represented include but are not limited to Use of artificial intelligence or big data in the control or optimization of industrial processes Modelling or optimization of recycle streams and scrap loops Measurement and control in hostile environments Modeling transport phenomena in materials processing and metallurgical processes involving iron steel nonferrous metals and composites Thermodynamics kinetics and physical chemistry of materials processes and modelling thereof *S-Heterocycles* Shrikaant Kulkarni,Hemantkumar Akolkar,Vijay M Khedkar,A K Haghi,2024-07-24 Heterocyclic compounds are vital in synthetic chemistry pharmaceuticals agrochemicals and materials science The concept of S heterocyclic compounds revolves around organic compounds that contain heterocyclic rings and sulfur S is one of the heteroatoms within the ring structure S enabled heterocycles have emerged as one of the key classes of heterocycles and have attracted tremendous attention attributed to their identity as privileged pharmacological structures across natural products and highly active pharmaceutical agents This edited volume reports the latest developments in practical and selective reactions and methods and provides details of the structural diversity of heterocycles Together the chapters provide a comprehensive view of the diversity of methods properties and the variety of applications in the construction of S heterocycles Divided into four parts the book covers in part one the chemistry synthesis pathways property profile and applications of thiazoles and includes five chapters Part two details thiadiazoles and part three thiopyrans thiazine and thiazepine Lastly part four focuses on thiophenes This volume will be of immense help to academicians researchers and students pursuing research and looking at the future of heterocyclic chemistry **Questions and answers for job interview Offshore Drilling Platforms** Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 271 questions and answers for job interview and as a BONUS 290 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *The Patient Will See You Now* Eric Topol,2016-10-25 The essential guide by one of America s leading doctors to how digital technology enables all of us to take charge of our health A trip to the doctor is almost a guarantee of misery You ll make an appointment months in advance You ll probably wait for several hours until you hear the doctor will see you now but only for fifteen minutes Then you ll wait even longer for lab tests the results of which you ll likely never see unless they indicate

further and more invasive tests most of which will probably prove unnecessary much like physicals themselves And your bill will be astronomical In *The Patient Will See You Now* Eric Topol one of the nation's top physicians shows why medicine does not have to be that way Instead you could use your smartphone to get rapid test results from one drop of blood monitor your vital signs both day and night and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor all at a small fraction of the cost imposed by our modern healthcare system The change is powered by what Topol calls medicine's Gutenberg moment Much as the printing press took learning out of the hands of a priestly class the mobile internet is doing the same for medicine giving us unprecedented control over our healthcare With smartphones in hand we are no longer beholden to an impersonal and paternalistic system in which doctor knows best Medicine has been digitized Topol argues now it will be democratized Computers will replace physicians for many diagnostic tasks citizen science will give rise to citizen medicine and enormous data sets will give us new means to attack conditions that have long been incurable Massive open online medicine where diagnostics are done by Facebook like comparisons of medical profiles will enable real time real world research on massive populations There's no doubt the path forward will be complicated the medical establishment will resist these changes and digitized medicine inevitably raises serious issues surrounding privacy Nevertheless the result better cheaper and more human health care will be worth it Provocative and engrossing *The Patient Will See You Now* is essential reading for anyone who thinks they deserve better health care That is for all of us [Resilient by Design](#) Joseph Fiksel, Joseph R. Fiksel, 2015-10-22 *Resilient by design* provides managers with a more complete approach to creating lasting success in a changing world Rich with examples and case studies it explains how to connect the external systems stakeholders communities infrastructure supply chains and natural resources to create innovative organisations that survive and prosper Publisher description

The Electrification of Civil Aircraft and the Evolution of Energy Storage Michael Waller, 2017-08-28 Larger airframes drove the development of electrical systems capable of quickly and reliably starting the new higher power engines These soon gave rise to the need for engine mounted electrical generators as the primary source of in flight power for the electrical loads and onboard recharging of the aircraft battery system Of all the backup power sources batteries represent the most common means of storing energy for auxiliary or emergency power requirements It is not unusual for a typical commercial airliner such as a B 737 or A 320 to have dozens of batteries on board Over time multiple battery chemistries were put to the test and the industry is still working on the optimal option The lithium ion technology has been gaining acceptance with some important aspects to be considered the application type basic safety requirements and the presence or absence of humans on the vehicle *The Electrification of Civil Aircraft and the Evolution of Energy Storage* edited by Michael Waller presents 10 seminal SAE technical papers which address multiple aspects of specific design cell configuration and mitigation strategies in the case of battery failure Additionally with all the changes resulting from monitoring control and performance safety test criteria battery manufacturers have found themselves

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Translational Sports Medicine Jeffrey A. Bakal,Steve DeFroda,Brett D. Owens,Adam E.M. Eltorai,2023-08-14 Translational Sports Medicine covers the principles of evidence based medicine and applies these principles to the design of translational investigations This title is an indispensable tool in grant writing and funding efforts with its practical straightforward approach that will help aspiring investigators navigate challenging considerations in study design and implementation It provides valuable discussions of the critical appraisal of published studies in translational sports medicine allowing the reader to learn how to evaluate the quality of such studies with respect to measuring outcomes and to make effective use of all types of evidence in patient care In short this practical guidebook will be of interest to every medical researcher or sports medicine clinician who has ever had a good clinical idea but not the knowledge of how to test it Readers will come to fully understand important concepts including case control study prospective cohort study randomized trial and reliability study Medical researchers will benefit from greater confidence in their ability to initiate and execute their own investigations avoid common pitfalls in translational sports medicine and know what is needed in collaboration Focuses on the principles of evidence based medicine and applies these principles to translational investigations within sports medicine Details discussions of the critical appraisal of published studies in translational sports medicine supporting evaluation with respect to measuring outcomes and making effective use of all types of evidence in patient care Written by experts in the sports medicine field

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strategies which embed economic environmental and social sustainability components will need a comprehensive assessment of business scientific and technological challenges facing the industry Sustainable Value Creation in the Fine and Speciality Chemicals Industry assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry It discusses innovative strategies in feedstocks R D technology manufacturing resource management and the supply chain as well as the significance of the bio based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry Topics covered include Transformation in the fine and speciality chemicals business Sustainable management evolution transitions and tools Research and technology directions Resource optimization strategies Bio based chemicals specialties and polymers Sustainable practices in the fine and speciality chemicals industry Sustainable value creation strategies Sustainable Value Creation in the Fine and Speciality Chemicals Industry presents a comprehensive overview of strategic options for sustainability management in the global fine and speciality chemicals industry It will be a valuable resource for chemists and chemical engineers involved in the design and development of economically environmentally and socially sustainable practices for the future Offshore Drilling Rigs

JOB INTERVIEW Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 266 questions and answers for job interview and as a BONUS 205 web addresses to recruitment companies where you may apply for a job This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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Table of Contents June 2013 Chemistry Paper 3

1. Understanding the eBook June 2013 Chemistry Paper 3
 - The Rise of Digital Reading June 2013 Chemistry Paper 3
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Chemistry Paper 3
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an June 2013 Chemistry Paper 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Chemistry Paper 3
 - Personalized Recommendations
 - June 2013 Chemistry Paper 3 User Reviews and Ratings
 - June 2013 Chemistry Paper 3 and Bestseller Lists
5. Accessing June 2013 Chemistry Paper 3 Free and Paid eBooks
 - June 2013 Chemistry Paper 3 Public Domain eBooks
 - June 2013 Chemistry Paper 3 eBook Subscription Services
 - June 2013 Chemistry Paper 3 Budget-Friendly Options
6. Navigating June 2013 Chemistry Paper 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2013 Chemistry Paper 3 Compatibility with Devices
 - June 2013 Chemistry Paper 3 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 Chemistry Paper 3
 - Highlighting and Note-Taking June 2013 Chemistry Paper 3
 - Interactive Elements June 2013 Chemistry Paper 3
8. Staying Engaged with June 2013 Chemistry Paper 3

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers June 2013 Chemistry Paper 3
- 9. Balancing eBooks and Physical Books June 2013 Chemistry Paper 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 Chemistry Paper 3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine June 2013 Chemistry Paper 3
 - Setting Reading Goals June 2013 Chemistry Paper 3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June 2013 Chemistry Paper 3
 - Fact-Checking eBook Content of June 2013 Chemistry Paper 3
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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