

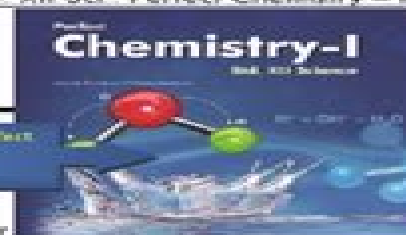
BOARD QUESTION PAPER: MARCH 2014

CHEMISTRY – I (12th Sci., HSC, Maharashtra)

Notes:

- All questions are compulsory.
- Answer to both sections should be written in the same answer book.
- Figure to the right hand side indicate full marks.
- Draw neat, labelled diagrams and write balanced equations wherever necessary.
- Use of logarithmic table is allowed.
- Answer to every new question must be started on a new page.

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SECTION – I**Q.1. Answer any ONE of the following:****[7]**

- What is 'boiling point'?
Derive a relation between ΔH and ΔU for a chemical reaction.
Draw neat labelled diagram of calomel electrode.
Resistance and conductivity of a cell containing 0.001 M KCl solution at 298 K are 1500 Ω and $1.46 \times 10^{-4} \text{ S cm}^{-1}$ respectively. What is the cell constant?
- Write molecularity of the following reaction:
 $2\text{NO}_{(g)} + \text{O}_{2(g)} \longrightarrow 2\text{NO}_{2(g)}$
What is 'calcination'? How does it differ from 'roasting'?
Write resonating structures of ozone.
The decomposition of $\text{N}_2\text{O}_{5(g)}$ at 330 K according to the following equation follows first order reaction:
$$\text{N}_2\text{O}_{5(g)} \rightarrow 2\text{NO}_{2(g)} + \frac{1}{2}\text{O}_{2(g)}$$

The initial concentration of $\text{N}_2\text{O}_{5(g)}$ is $1.24 \times 10^{-2} \text{ mol L}^{-1}$ and after 60 minutes, $0.20 \times 10^{-2} \text{ mol L}^{-1}$. Calculate the rate constant of the reaction at 330 K.

Q.2. Answer any THREE of the following:**[9]**

- One mole of a gas expands by 3 L against a constant pressure of 3 atmosphere. Calculate the work done in:
a. L atmosphere
b. Joules
c. Calories
- Calculate the amount of CaCl_2 (van't Hoff factor $i = 2.47$) dissolved in 2.5 L solution so that its osmotic pressure at 300 K is 0.75 atmosphere.
Given: Molar mass of CaCl_2 is 111 g mol^{-1} .
 $R = 0.082 \text{ L atm K}^{-1} \text{ mol}^{-1}$
- Describe anomalous behaviour of Fluorine with the other elements of group 17 with reference to:
a. Hydrogen bonding
b. Oxidation state
c. Polyhalide ions
- Face centred cubic crystal lattice of copper has density of 8.966 g cm^{-3} . Calculate the volume of the unit cell.
Given: Molar mass of copper is 63.5 g mol^{-1} and Avogadro number N_A is $6.022 \times 10^{23} \text{ mol}^{-1}$.

Hsc Chemistry 2014

Abhilash, Ata Akcil



Hsc Chemistry 2014:

Light Metals 2014 John Grandfield, 2016-12-23 The Light Metals symposia are a key part of the TMS Annual Meeting Exhibition presenting the most recent developments discoveries and practices in primary aluminum science and technology Publishing the proceedings from these important symposia the Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2014 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Fabrication Characterization and Applications Aluminum Processing Aluminum Reduction Technology Cast Shop for Aluminum Production Electrode Technology for Aluminum Production Light metal Matrix Nano composites

TMS 2014 143rd Annual Meeting & Exhibition, Annual Meeting Supplemental Proceedings The Minerals, Metals & Materials Society (TMS), 2016-12-16 These papers present advancements in all aspects of high temperature electrochemistry from the fundamental to the empirical and from the theoretical to the applied Topics involving the application of electrochemistry to the nuclear fuel cycle chemical sensors energy storage materials synthesis refractory metals and their alloys and alkali and alkaline earth metals are included Also included are papers that discuss various technical economic and environmental issues associated with plant operations and industrial practices

Verfahrenstechnik in Beispielen Josef Draxler, Matthäus Siebenhofer, 2014-06-04 Das Buch ist eine Ideale Ergänzung zu Lehrbüchern und Skripten Es werden die wichtigsten Gesetzmäßigkeiten aus allen Gebieten der Verfahrenstechnik Thermodynamik Impulsaustausch Trennverfahren Reaktionskinetik dargestellt erklärt und beschrieben Anschließend an die Einführungen laden ca 500 Beispiele aus der Praxis mit Aufgabenstellungen zum Benutzen zum Selbststudium und zur Wissensvertiefung ein u a Khlung einer Turbinenschaufel Mischen von Gasströmen zum optimierten Wachstum von Mikroorganismen mehrstufige Kompression von Kohlendioxid Vielfach sind die Ergebnisse angegeben und ermöglichten so die Kontrolle des eigenen Wissensstandes Durch die praxisnahen Beispiele kann das Buch auch nach dem Studium im Berufsleben und gestandenen Praktikern eine wertvolle Hilfe Nachschlagewerk und Anregungsgeber sein

Energy Technology 2014 Cong Wang, Jan de Bakker, Cynthia K. Belt, Animesh Jha, Neale R. Neelameggham, Soobhankar Pati, Leon H. Prentice, Gabriella Tranell, Kyle S. Brinkman, 2013-12-30 This book addresses the issues intricacies and challenges relating to energy and environmental sciences Papers cover various technological aspects of sustainable energy eco systems and processes that improve energy efficiency and reduce and sequester carbon dioxide CO₂ and other greenhouse emissions The collection also emphasizes the need for sustainable technologies in extractive metallurgy materials processing and manufacturing industries with reduced energy consumption and CO₂ emission Industrial energy efficient technologies include innovative ore beneficiation smelting technologies recycling and waste heat recovery The book also carries contributions from all areas of non nuclear and non traditional energy sources including renewable energy sources such as solar wind and biomass Papers from the following symposia are presented in the book Energy Technologies and

Carbon Dioxide Management High temperature Material Systems for Energy Conversion and Storage Solar Cell Silicon

Semiconductor Cleaning Science and Technology 14 (SCST 14) T. Hattori, P. Mertens, R. Novak, J. Ruzyllo, 2015

Batteries, 2 Volumes Stefano Passerini, Dominic Bresser, Arianna Moretti, Alberto Varzi, 2020-11-02 Part of the Encyclopedia of Electrochemistry this comprehensive two volume handbook offers an up to date and in depth review of the battery technologies in use today It also includes information on the most likely candidates that hold the potential for further enhanced energy and power densities It contains contributions from a renowned panel of international experts in the field Batteries are extremely commonplace in modern day life They provide electrochemically stored energy in the form of electricity to automobiles aircrafts electronic devices and to smart power grids Comprehensive in scope Batteries covers information on well established battery technologies such as charge carrier based lead acid and lithium ion batteries The contributors also explore current developments on new technologies such as lithium sulfur and oxygen sodium ion and full organic batteries Written for electrochemists physical chemists and materials scientists Batteries is an accessible compendium that offers a thorough review of the most relevant current battery technologies and explores the technology in the years to come *Energy Technology 2020: Recycling, Carbon Dioxide Management, and Other Technologies* Xiaobo Chen, Yulin Zhong, Lei Zhang, John A. Howarter, Alafara Abdullahi Baba, Cong Wang, Ziqi Sun, Mingming Zhang, Elsa Olivetti, Alan Luo, Adam Powell, 2020-01-15 This collection addresses the pressing needs for sustainable technologies with reduced energy consumption and environmental pollutions and the development and application of alternative sustainable energy to maintain a green environment and efficient and long lasting energy supply Contributors represent both industry and academia and focus on new and efficient energy technologies including innovative ore beneficiation smelting technologies and recycling and waste heat recovery as well as emerging novel energy solutions The volume also covers a broad range of mature and new technological aspects of sustainable energy ecosystems processes that improve energy efficiency reduce thermal emissions and reduce carbon dioxide and other greenhouse emissions Authors also explore the valorization of materials and their embodied energy including byproducts or coproducts from ferrous and nonferrous industries batteries electronics and other complex secondary materials *Solar Thermochemistry*, 2021-12-04 Advances in Chemical Engineering Volume 58 in this long running serial highlights new advances in the field with this new volume presenting interesting and timely chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Chemical Engineering series **Proceedings of the 62nd Conference of Metallurgists, COM 2023** Metallurgy & Materials Soc. of CIM, 2023-10-19 These Proceedings represent the metallurgical engineering and materials science research presented at the 62nd Annual Conference of Metallurgists COM 2023 held in Toronto Canada from 21 to 24 August 2023 The Annual Conference of Metallurgists is organized by the Metallurgy Materials Society of the Canadian Institute of Mining Metallurgy

and Petroleum MetSoc of CIM The collection themed Climate Change and Sustainability presents findings on a wide range of topics including Advanced Manufacturing and Materials Sustainability Integration for Better Outcomes Light Metals for Transportation and Next Generation Vehicles Derek Kerfoot Memorial Pressure Hydrometallurgy Symposium Laplante Laskowski Symposium on Mineral Processing Fundamentals Wasmund Memorial Symposium of Sustainability in Pyrometallurgy

Digitale Zwillinge Christoph Herwig, Ralf Pörtner, Johannes Möller, 2025-07-02 Dies ist der zweite von zwei Bänden die zusammen einen Überblick über die neuesten Fortschritte bei der Erzeugung und Anwendung digitaler Zwillinge in der Bioprozessentwicklung und -optimierung geben Bioprozesse haben sich in den letzten Jahrzehnten stark entwickelt von datengetriebenen Ansätzen hin zur Digitalisierung der Bioprozessindustrie im 21. Jahrhundert Darüber hinaus erfordert die hohe Nachfrage nach biotechnologischen Produkten effiziente Methoden sowohl in der Forschung und Entwicklung als auch im Technologietransfer und in der Routineproduktion Ein vielversprechendes Werkzeug ist in diesem Zusammenhang der Einsatz von digitalen Zwillingen als virtuelle Darstellung des Bioprozesses Sie spiegeln die Mechanik des biologischen Systems die Wechselwirkungen zwischen Prozessparametern Kennzahlen und Produktqualitätsmerkmalen in Form eines mathematischen Prozessmodells wider Darüber hinaus ermöglichen digitale Zwillinge den Einsatz computergestützter Methoden um ein besseres Prozessverständnis zu erlangen neuartige Bioprozesse zu testen und zu planen sowie diese effizient zu überwachen Dieses Buch konzentriert sich auf die Anwendung digitaler Zwillinge in verschiedenen Kontexten z. B. computergestützte Versuchsplanung Seed Train Vorhersage und Lifeline Analyse Die beiden Bände behandeln sowohl die Grundlagen als auch die Anwendungen und bieten damit eine ideale Einführung in das Thema für Forscher und Entwickler in Wissenschaft und Industrie

Materials and Processes for CO₂ Capture, Conversion, and Sequestration Lan Li, Winnie Wong-Ng, Kevin Huang, Lawrence P. Cook, 2018-07-10 Addresses materials technology and products that could help solve the global environmental crisis once commercialized This multidisciplinary book encompasses state of the art research on the topics of Carbon Capture and Storage CCS and complements existing CCS technique publications with the newest research and reviews It discusses key challenges involved in the CCS materials design processing and modeling and provides in depth coverage of solvent based carbon capture sorbent based carbon capture membrane based carbon capture novel carbon capture methods computational modeling carbon capture materials including metal organic frameworks MOF electrochemical capture and conversion membranes and solvents and geological sequestration Materials and Processes for CO₂ Capture Conversion and Sequestration offers chapters on Carbon Capture in Metal Organic Frameworks Metal Organic Frameworks Materials for Post Combustion CO₂ Capture New Progress of Microporous Metal Organic Frameworks in CO₂ Capture and Separation In Situ Diffraction Studies of Selected Metal Organic Framework MOF Materials for Guest Capture Applications Electrochemical CO₂ Capture and Conversion Electrochemical Valorization of Carbon Dioxide in Molten Salts Microstructural and Structural Characterization of Materials for CO₂ Storage using Multi Scale X Ray Scattering Methods

Contribution of Density Functional Theory to Microporous Materials for Carbon Capture and Computational Modeling Study of MnO₂ Octahedral Molecular Sieves for Carbon Dioxide Capture Applications Addresses one of the most pressing concerns of society that of environmental damage caused by the greenhouse gases emitted as we use fossil fuels Covers cutting edge capture technology with a focus on materials and technology rather than regulation and cost Highlights the common and novel CCS materials that are of greatest interest to industrial researchers Provides insight into CCS materials design processing characterization and computer modeling Materials and Processes for CO₂ Capture Conversion and Sequestration is ideal for materials scientists and engineers energy scientists and engineers inorganic chemists environmental scientists pollution control scientists and carbon chemists

Comprehensive Nuclear Materials, 2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation temperature and or corrosion and in many cases the combination of these makes the material behavior very different from conventional materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand the underlying processes affecting changes in their behavior in order to assess their performance and to determine the limits of operation Comprehensive Nuclear Materials Second Edition Seven Volume Set provides broad ranging validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion reactor systems Attention is given to the fundamental scientific aspects of nuclear materials fuel and structural materials for fission reactors waste materials and materials for fusion reactors The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource of information Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material During the ten years between the two editions the challenge for applications of nuclear materials has been significantly impacted by world events public awareness and technological innovation Materials play a key role as enablers of new technologies and we trust that this new edition of Comprehensive Nuclear Materials has captured the key recent developments Critically reviews the major classes and functions of materials supporting the selection assessment validation and engineering of materials in extreme nuclear environments Comprehensive resource for up to date and authoritative information which is not always available elsewhere even in journals Provides an in depth treatment of materials modeling and simulation with a specific focus on nuclear issues Serves as an excellent entry point for students and researchers new to the field

Metals Powders Francisco P. Gómez Cuevas, 2020-07-01 This book gathers several manuscripts dealing with powder metallurgy processing Both powders production and their processing to reach a final

product can be found In particular the extraction of Ta and Ti powders from their oxides by the action of Mg is studied Moreover the synthesis of ball milled Mn Bi powder for magnetic uses is also presented in the book Regarding powders processing sintering of Fe Co Cu powder mixtures for their use as diamond impregnated tools electrical resistance sintering of mechanically alloyed amorphous Al Ti powders cold pressed Fe Si B alloys with magnetic uses hot extruded functionally graded Al based materials space holder sintering of Ti for medical implants sintering of hard Co based material and electrical resistance sintering of Fe WC hardmetals can be found in this book

Fundamentals and Practice in Statistical Thermodynamics Jianzhong Wu, John M. Prausnitz, 2024-07-17 Bridge the gap between thermodynamic theory and engineering practice with this essential textbook Thermodynamics is a discipline which straddles the fields of chemistry physics and engineering and has long been a mainstay of undergraduate and graduate curricula Conventional thermodynamics courses however often ignore modern developments in statistical mechanics such as molecular simulation methods cooperative phenomena phase transitions universality as well as liquid state and polymer theories despite their close relevance to both fundamental research and engineering practice Fundamentals and Practice in Statistical Thermodynamics fills this gap with an essential book that applies up to date statistical mechanical techniques to address the most crucial thermodynamics problems found in chemical and materials systems It is ideally suited to introduce a new generation of researchers and molecular engineers to modern thermodynamic topics with numerous cutting edge applications From Fundamentals and Practice in Statistical Thermodynamics readers will also find An introduction to statistical mechanical methods including molecular dynamics simulation Monte Carlo simulation as well as the molecular theories of phase transitions classical fluids electrolyte solutions polymeric materials and more Illustrative examples and exercise problems with solutions to facilitate student understanding Supplementary online materials covering the basics of quantum mechanics density functional theory variational principles of classical mechanics intermolecular interactions and many more subjects Fundamentals and Practice in Statistical Thermodynamics is ideal for graduate and advanced undergraduate students in chemical engineering biomolecular engineering environmental engineering materials science and engineering and all related scientific subfields of physics and chemistry

Primary Exploration of Hydrogen Metallurgy Jianliang Zhang, Kejiang Li, Zhengjian Liu, Tianjun Yang, 2024-03-21 This book is a monograph dedicated to hydrogen metallurgy technology in iron ore reduction in the world mainly in China aiming to accelerate the development of hydrogen metallurgy research and promote the low carbon process in the iron and steel industry This book mainly introduces the frontier theory and process technology of hydrogen metallurgy focusing on the behavior and role of hydrogen in reducing iron ore The specific contents include hydrogen production and storage technology hydrogen direct reduction of iron oxide technology hydrogen smelting reduction of iron oxide technology plasma hydrogen reduction of iron oxide theory and the behavior of hydrogen in blast furnace iron making and sintering processes This book provides a comprehensive and detailed

description of the theories and process technologies involved in hydrogen metallurgy at the levels of fundamental theory feasibility analysis experimental studies and industrial applications This book can be used as a reference for metallurgical engineering iron and steel metallurgy majors as well as teachers and students researchers engineers and enterprise staff interested in hydrogen and low carbon metallurgy related fields Proceedings of the 61st Conference of Metallurgists, COM 2022 Metallurgy & Materials Soc. of CIM, 2023-01-05 These Proceedings represent the metallurgical engineering and materials science research presented at the 61st Annual Conference of Metallurgists The collection themed The Pathway to Net Zero presents findings on a wide range of topics including Processing of Critical Materials Towards Sustainable Circularity Mining to Materials Deep Decarbonization Pathways for Pyrometallurgical Processes Opportunities Challenges Energy and Environmental Materials Light Metals for the Transportation Industry Advances in Materials Manufacturing VI Existing and Emerging Materials Electrochemical Degradation of Multi component Materials A History of the Development of Higher School Certificate Programs in Northern Nigeria Harold Milton Bergsma, 1969 *Critical and Rare Earth Elements* Abhilash, Ata Akcil, 2019-11-11 This book is aimed to compile the distribution of rare earth elements in various resources with their processing from secondary resources It includes details of various processes developed for extraction of rare earth elements from varied raw materials ranging from e wastes tailings process wastes and residues It emphasizes importance of processing of the secondary resources to assist environmental remediation of such untreated wastes and get finished products It covers all aspects of rare metals and rare earth metals in one volume covering extraction separation and recycling of secondary resources for extraction of these metals along with relevant case studies **CO2 Free Ammonia as an Energy Carrier** Ken-ichi Aika, Hideaki Kobayashi, 2022-11-01 This book describes important findings in intensive studies conducted in Japan on ammonia as an energy carrier It illustrates an advanced solar heat capture system and storage materials at 600 C and hydrogen production with SOECs and a new IS method through the use of heat New industrial ammonia catalysts and a demonstration process that started running in Fukushima are also introduced Advanced ammonia decomposition catalysts and the process that were developed for use by the hydrogen station are presented An advanced direct ammonia fuel cell was developed and the base data are shown The book explains that ammonia is used as a fuel for industrial applications because its burning can be controlled without emitting extra NOx in the gas turbine and the real coal co fired power plant These breakthroughs have made a strong impact in the world as a practical technology for CO2 reduction Also provided here are the scientific and industrial backgrounds as well as the environmental assessment and economic evaluation for the future This book will be helpful for all who are interested in energy technology researchers students and strategy planners at companies and in the government Hepatocellular Carcinoma Costin Teodor Streba, Cristin Constantin Vere, Ion Rogoveanu, 2018-11-28 Hepatocellular carcinoma HCC currently ranks as the third most common cause of death As the primary malignancy of the liver is directly related to an underlying liver condition its

incidence and profile are expected to change soon While effective prevention programs and antiviral therapies for hepatitis B and C will lower the incidence of HCC emerging socioeconomic issues will deliver new at risk populations Moreover diagnostic techniques and protocols have undergone significant advancements Reliance on contrast enhanced ultrasound has been re evaluated imaging methods being considered as sufficient diagnostic tools Molecular characterization remains desirable since chemotherapeutic agents still have limited applicability In light of recent diagnostic advancements and novel therapeutic solutions it is our belief that a comprehensive update on recent paradigm shifts and interesting upcoming developments is highly needed

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