

SECTION - I

Q. 1. Select and write the most appropriate answers from the given alternatives for each sub-question :

[7]

- (i) The Arrhenius equation is _____.
- (a) $k = A e^{\frac{RT}{E_a}}$ (b) $A = k e^{\frac{-E_a}{RT}}$
- (c) $k = A e^{\frac{-RT}{E_a}}$ (d) $k = A e^{\frac{-K_a}{RT}}$
- (ii) If the enthalpy of vaporisation of water at 100°C is 186.5 J . mol⁻¹, the entropy of vaporization will be _____.
- (a) 4.0 J . K⁻¹. mol⁻¹ (b) 3.0 J . K⁻¹. mol⁻¹
- (c) 1.5 J . K⁻¹. mol⁻¹ (d) 0.5 J . K⁻¹. mol⁻¹
- (iii) The atomicity of sulphur in orthorhombic sulphur is _____.
- (a) 8 (b) 6 (c) 4 (d) 2
- (iv) The major binding force in diamond is _____.
- (a) Covalent bond (b) Ionic bond
- (c) Metallic bond (d) Co-ordinate covalent bond
- (v) The boiling point of water at high altitude is low, because _____.
- (a) the temperature is low. (b) the atmospheric pressure is low.
- (c) the temperature is high. (d) the atmospheric pressure is high.
- (vi) The molar conductivity of cation and anion of salt BA are 180 and 220 mhos respectively. The molar conductivity of salt BA at infinite dilution is _____.
- (a) 90 mhos.cm². (b) 110 mhos.cm².mol⁻¹
- (c) 200 mhos.cm².mol⁻¹ (d) 400 mhos.cm².mol⁻¹
- (vii) What is the process in which concentrated ore is reduced to the corresponding metal by heating at high temperature with a reducing agent?
- (a) Polling (b) Pyrometallurgy (c) Hydrometallurgy (d) Calcination

Q. 2. Answer any THREE of the following :

[9]

- (i) Describe anomalous behaviour of oxygen as compared with other elements of group 16 with reference to –
- (a) Magnetic property (b) Oxidation state (c) Hydrides
- (ii) What is the value of $\Delta S_{\text{surr.}}$ for the following reaction at 298 K –
- $$6\text{CO}_{2(g)} + 6\text{H}_2\text{O}_{(l)} \longrightarrow \text{C}_6\text{H}_{12}\text{O}_{6(s)} + 6\text{O}_{2(g)}$$
- Given that : $\Delta G^\circ = 2879 \text{ kJ mol}^{-1}$, $\Delta S = -210 \text{ JK}^{-1} \text{ mol}^{-1}$.
- (iii) Sucrose decomposes in acid solution to give glucose and fructose according to the first order rate law. The half life of the reaction is 3 hours. Calculate fraction of sucrose which will remain after 8 hours.
- (iv) A solution containing 0.73 g of camphor (molar mass 152 g . mol⁻¹) in 36.8 g of acetone (boiling point 56.3°C) boils at 56.55°C. A solution of 0.564 g of unknown compound in the same weight of acetone boils at 56.46°C. Calculate the molar mass of the unknown compound.

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Scott C. Dulebohn



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Cambridge Checkpoints HSC Chemistry 2017-19 Maureen Slade, Roger Slade, 2016-06-29 Kinetics in Materials Science and Engineering Dennis W. Readey, 2017-01-27 A pedagogical gem Professor Readey replaces black box explanations with detailed insightful derivations A wealth of practical application examples and exercise problems complement the exhaustive coverage of kinetics for all material classes Prof Rainer Hebert University of Connecticut Prof Readey gives a grand tour of the kinetics of materials suitable for experimentalists and modellers In an easy to read and entertaining style this book leads the reader to fundamental model based understanding of kinetic processes critical to development fabrication and application of commercially important soft polymers biomaterials hard ceramics metals and composite materials It is a must have for anyone who really wants to understand how to make materials and how they will behave in service Prof Bill Lee Imperial College London Fellow of the Royal Academy of Engineering A much needed text filling the gap between an introductory course in materials science and advanced materials specific kinetics courses Ideal for the undergraduate interested in an in depth study of kinetics in materials Prof Mark E Eberhart Colorado School of Mines This book provides an in depth introduction to the most important kinetic concepts in materials science engineering and processing All types of materials are addressed including metals ceramics polymers electronic materials biomaterials and composites The expert author with decades of teaching and practical experience gives a lively and accessible overview explaining the principles that determine how long it takes to change material properties and make new and better materials The chapters cover a broad range of topics extending from the heat treatment of steels the processing of silicon integrated microchips and the production of cement to the movement of drugs through the human body The author explicitly avoids black box equations providing derivations with clear explanations **Digital Twins** Christoph Herwig, Ralf Pörtner, Johannes Möller, 2021-04-25 This is the second of two volumes that together provide an overview of the latest advances in the generation and application of digital twins in bioprocess design and optimization Both processes have undergone significant changes over the past few decades moving from data driven approaches into the 21st century digitalization of the bioprocess industry Moreover the high demand for biotechnological products calls for efficient methods during research and development as well as during tech transfer and routine manufacturing In this regard one promising tool is the use of digital twins which offer a virtual representation of the bioprocess They reflect the mechanistics of the biological system and the interactions between process parameters key performance indicators and product quality attributes in the form of a mathematical process model Furthermore digital twins allow us to use computer aided methods to gain an improved process understanding to test and plan novel bioprocesses and to efficiently monitor them This book focuses on the application of digital twins in various contexts e g computer aided experimental design seed train prediction and lifeline analysis Covering fundamentals as well as applications the two volumes offers the ideal introduction to the topic for researchers in academy and industry alike

Proceedings of the 4th International Gas Processing Symposium, 2015-06-15 Natural gas continues to be the fuel of choice for power generation and feedstock for a range of petrochemical industries This trend is driven by environmental economic and supply considerations with a balance clearly tilting in favor of natural gas as both fuel and feedstock Despite the recent global economic uncertainty the oil and gas industry is expected to continue its growth globally especially in emerging economies The expansion in LNG capacity coupled with recently launched and on stream GTL plants poses real technological and environmental challenges These important developments coupled with a global concern on green house gas emissions provide a fresh impetus to engage in new and more focused research activities aimed at mitigating or resolving the challenges facing the industry Academic researchers and plant engineers in the gas processing industry will benefit from the state of the art papers published in this collection that cover natural gas utilization sustainability and excellence in gas processing Provides state of the art contributions in the area of gas processing Covers solutions to technical and environmental problems Input from academia and industry

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

Electrochemical Engineering Across Scales Richard C. Alkire, Philip N. Bartlett, Jacek Lipkowski, 2015-06-29 In Volume XV in the series Advances in Electrochemical Science and Engineering various leading experts from the field of electrochemical engineering share their insights into how different experimental and computational methods are used in transferring molecular scale discoveries into processes and products Throughout the focus is on the engineering problem and method of solution rather than on the specific application such that scientists from different backgrounds will benefit from the flow of ideas between the various subdisciplines A must read for anyone developing engineering tools for the next generation design and control of electrochemical process

technologies including chemical mechanical and electrical engineers as well as chemists physicists biochemists and materials scientists

Index Medicus, 2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Science John Michels (Journalist), 2008

Handbook of Recycling Christina Meskers, Ernst Worrell, Markus A. Reuter, 2023-10-17

Handbook of Recycling Second Edition Winner of the International Solid Waste Association's 2014 Publication Award is an authoritative review of the current state of recycling reuse and reclamation processes commonly implemented today and how they interact with one another Fully updated to cover recent developments in the field this second edition has also been restructured to cover General Aspects of Recycling Applications Technology Recovery and Collection Economics Governance and Policy Several new chapters on global recycled material flows sludges reinforced plastics and landfill mining have been added It concludes with a review of the policy and economic implications including the impact of recycling on energy use sustainable development and the environment This book is a crucial aid to students and researchers in a range of disciplines from materials and environmental science to public policy studies Chapters authored by key experts from academia industry and the policymaking community Provides a thorough analysis from theory to practice to deeply understand the fundamentals dynamics complex interactions opportunities and challenges of recycling within the larger picture of a circular system Describes the state of the art and lessons learned to understand future challenges in recycling of a wide variety of products materials and waste flows Introduces the tools and practices to understand the opportunities and limitations of recycling in the context of a circular economy

Enabling Biomaterials for New Biomedical Technologies and Clinical Therapies Hasan Uludag, Abhay Pandit, Liisa Kuhn, 2020-07-14

Houben-Weyl Methods of Organic Chemistry Vol. E 11, 4th Edition Supplement, 2014-05-14 Houben Weyl is the acclaimed reference series for preparative methods in organic chemistry in which all methods are organized according to the class of compound or functional group to be synthesized The Houben Weyl volumes contain 146 000 product specific experimental procedures 580 000 structures and 700 000 references The preparative significance of the methods for all classes of compounds is critically evaluated The series includes data from as far back as the early 1800s to 2003 The content of this e book was originally published in 1985

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Thermal Energy Yatish T. Shah, 2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and

materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and transformation processes

Renewable Heating and Cooling Gerhard Stryi-Hipp, 2015-11-20 Renewable Heating and Cooling Technologies and Applications presents the latest information on the generation of heat for industry and domestic purposes an area where a significant proportion of total energy is consumed In Europe this figure is estimated to be almost 50% with the majority of heat generated by the consumption of fossil fuels As there is a pressing need to increase the uptake of renewable heating and cooling RHC to reduce greenhouse gas emissions this book provides a comprehensive and authoritative overview on the topic Part One introduces key RHC technologies and discusses RHC in the context of global heating and cooling demand featuring chapters on solar thermal process heat generation deep geothermal energy and solar cooling technologies Part Two explores enabling technologies special applications and case studies with detailed coverage of thermal energy storage hybrid systems and renewable heating for RHC along with case studies in China and Sweden Users will find this book to be an essential resource for lead engineers and engineering consultants working on renewable heating and cooling in engineering companies as well as academics and R D professionals in private research institutes who have a particular interest in the subject matter Includes coverage on biomass solar thermal and geothermal renewable heating and cooling technologies Features chapters on solar thermal process heat generation deep geothermal energy solar cooling technologies and special applications Presents case studies with detailed coverage of thermal energy storage hybrid systems and renewable heating for RHC Explores enabling technologies and special applications

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