

SECTION - I

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

[7]

- (i) In Van Arkel method of refining metal, impure zirconium is converted to unstable volatile compound by heating it with –
 (a) oxygen (b) chlorine (c) bromine (d) iodine
- (ii) The temperature at which vapour pressure of a liquid becomes equal to the atmospheric pressure is _____.
 (a) melting point (b) boiling point (c) 273 K (d) 373 K
- (iii) Which of the following parameters are correct for triclinic lattice ?
 (a) $\alpha = \beta = \gamma = 90^\circ$ and $a = b = c$ (b) $\alpha \neq \beta \neq \gamma \neq 90^\circ$ and $a \neq b \neq c$
 (c) $\alpha = \gamma = 90^\circ$, $\beta \neq 90^\circ$ and $a \neq b \neq c$ (d) $\alpha \neq \beta \neq \gamma \neq 90^\circ$ and $a \neq b \neq c$
- (iv) Which mixture is used for respiration by deep sea divers ?
 (a) He + O₂ (b) Ne + O₂ (c) Ar + O₂ (d) Kr + O₂
- (v) For the reaction $2\text{N}_2\text{O}_{5(g)} \longrightarrow 4\text{NO}_{2(g)} + \text{O}_{2(g)}$ in liquid bromine, which of the following rate equation is 'incorrect'
 (a) $-\frac{1}{2} \frac{d[\text{N}_2\text{O}_5]}{dt}$ (b) $-\frac{1}{4} \frac{d[\text{NO}_2]}{dt}$ (c) $\frac{d[\text{O}_2]}{dt}$ (d) $\frac{1}{4} \frac{d[\text{NO}_2]}{dt}$
- (vi) For a certain reaction $\Delta H = -50 \text{ KJ}$ and $\Delta S = -80 \text{ JK}^{-1}$, at what temperature does the reaction turn from spontaneous to nonspontaneous.
 (a) 6.25 K (b) 62.5 K (c) 625 K (d) 6250 K
- (vii) What is the ratio of volumes of H₂ and O₂ liberated during electrolysis of acidified water ?
 (a) 1 : 2 (b) 2 : 1 (c) 1 : 8 (d) 8 : 1

Q. 2. Answer any THREE of the following :

[9]

- (i) Calculate ΔH° for the following reactions –



Given that



- (ii) Calculate molarity and molality of 6.3% solution of nitric acid having density 1.04 gcm^{-3} . (H = 1, N = 14, O = 16)
- (iii) What is the action of chlorine (Cl₂) on the following :
 (a) Cold and dilute caustic soda.
 (b) Hot and concentrated caustic soda.
 (c) Potassium bromide solution.
- (iv) Calculate the number of atoms present in 2 gram of crystal which has face-centred cubic (FCC) crystal lattice having edge length of 100 pm and density 10 gcm^{-3} .

Hsc Oct 2013 Chemistry Paper

Samuel Wagstaff



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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 **The Insider's Guide to the Colleges, 2013** Yale Daily News

Staff,2012-07-03 The Insider s Guide to the Colleges has been for 39 years the most relied upon resource for high school students looking for honest reports on colleges from their fellow students Having interviewed hundreds of their peers on more than 330 campuses and by getting the inside scoop on everything from the nightlife and professors to the newest dorms and wildest student organizations the reporters at the Yale Daily News have created the most candid college guide available In addition to the wellrounded profiles this edition has been updated to include Essential statistics for every school from acceptance rates to popular majors A College Finder to help students zero in on the perfect school All new FYI sections with student opinions and outrageous off the cuff advice The Insider s Guide to the Colleges cuts through the glossy brochures to uncover the things that matter most to students and by staying on top of trends it gives both students and parents the straightforward information they need to choose the school that s right for them [CRASH COURSE JEE\(MAIN\) / AIEEE - CHEMISTRY](#) V&S EDITORIAL BOARD,2015-01-09

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Grimsey,Rodney Jones,Geoffrey Brooks,2016-12-02 The volume contains more than 70 papers covering the important topics and issues in metallurgy today including papers as follows keynote papers covering a tribute to David Robertson workforce skills needed in the profession going forward copper smelting ladle metallurgy process metallurgy and resource efficiency

new flash iron making technology ferro alloy electric furnace smelting and on the role of bubbles in metallurgical processing operations Topics covered in detail in this volume include ferro alloys non ferrous metallurgy iron and steel modeling education and fundamentals

Encyclopedia of Astrobiology Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claey, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27 Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e g the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence Biologists astrophysicists bio chemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines This new edition offers 170 new entries More than half of the existing entries were updated expanded or supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

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Materials Processing Fundamentals 2018 Guillaume Lambotte, Jonghyun Lee, Antoine Allanore, Samuel Wagstaff, 2018-01-09 This book includes contributions from the Materials Processing Fundamentals Symposium held at the TMS 2018 Annual Meeting Exhibition in Phoenix Arizona Covering the physical and numerical modeling of materials processing the volume covers a range of metals and minerals Authors present models and results related the basics of processing such as extraction joining separation and casting The corresponding fundamentals of mass and heat transport as well as physical and thermodynamics

properties are addressed allowing for a cross disciplinary vision of the field Academic Success And Social Power Richard Teese,2013-04-18 A most significant text that says something new about how student achievement is shaped Richard Teese cuts across much of the recent talk about reform and allows us to think about the issues afresh His findings will fascinate all Professor Simon Marginson Monash University This eye opening study of Australian secondary education looks beyond clichés about excellence to analyse the historically specific nature of the scholarly ideal against which successive generations of Australian students have been judged Drawing on a wealth of strikingly original research Richard Teese offers a penetrating analysis of Victorian secondary schooling in the half century after World War Two This was a era in which higher secondary schooling ceased to be the preserve of an elite and emerged as a system of mass education It was also a period marked by successive waves of reform in curriculum and assessment Yet at the end of it all Australians have been left with a sharply polarised system of schooling in which the most economically vulnerable populations of young people are also those most at risk of educational failure This book asks the hard questions Are our systems of secondary teaching and the expectations they place on students anachronistic in an age of mass education How far is the curriculum itself responsible for the manifest disparities in achievement between sectors and regions and between boys and girls What has been the universities role in the process of reform and counter reform And what have all these upheavals implied for the practice of teaching PbZn 2020: 9th International Symposium on Lead and Zinc Processing A. Siegmund,S. Alam,J. Grogan,U. Kerney,E. Shibata,2020-01-24 Established in 1970 the PbZn symposium series is considered the leading international technical forum for the lead and zinc processing industries The PbZn 2020 volume addresses all aspects of current processing technologies for primary and secondary lead and zinc as well as emerging technologies for both metals **Yearbook of International Organizations, 2013-2014 (Volume 2)** Union Of International Associations,Union of International Associations,2013-06-21 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 2 allows users to locate organizations by the country in which secretariats or members are located **Essentials of Environmental Public Health Science** Naima Bradley,Henrietta Harrison,Greg Hodgson,Robie Kamanyire,Andrew Kibble,Virginia Murray,2014-01-30 Environmental public health is an interdisciplinary approach to the study of the direct and indirect impact of exposure to environmental hazards on the public's health and wellbeing Assessing and addressing the risks of chemical ionising and non ionising radiation and noise hazards requires a sound knowledge of toxicology environmental epidemiology environmental science health risk assessment and public health principles Essentials of Environmental Science for Public Health provides

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Advances in Pyrometallurgy Camille Fleuriault,Joaleet D. Steenkamp,Dean Gregurek,Jesse F. White,Quinn G. Reynolds,Phillip J. Mackey,Susanna A.C. Hockaday,2023-02-11 Carbon intensive industries are at a crossroads Long term manufacturing plans using pyrometallurgical processes all include decarbonization levers we must solve the problem of fossil based reduction and fossil based power generation processes for metals production This collection explores innovative and diverse strategies for the enablement of low carbon industries in the high temperature metals and materials processing fields In particular the following processes are investigated Electrolysis and electrification of metallurgical processes High temperature electrolytic routes for metal and alloy production Use of hydrogen and other alternative non carbonaceous reducing agents Biofuels and other non fossil reagents for metallurgical applications Direct and indirect use of solar energy in high temperature processing Energy efficiency and waste heat recovery concepts applied to pyrometallurgical operations

Nanofluidics Efsthios E. (Stathis) Michaelides,2014-05-19 This volume offers a comprehensive examination of the subject of heat and mass transfer with nanofluids as well as a critical review of the past and recent research projects in this area Emphasis is placed on the fundamentals of the transport processes using particle fluid suspensions such as nanofluids The nanofluid research is examined and presented in a holistic way using a great deal of our experience with the subjects of continuum mechanics statistical thermodynamics and non equilibrium thermodynamics of transport processes Using a thorough database the experimental analytical and numerical advances of recent research in nanofluids are critically examined and connected to past research with medium and fine particles as well as to functional engineering systems Promising applications and technological issues of heat mass transfer system design with nanofluids are also discussed This book also Provides a deep scientific analysis of nanofluids using classical thermodynamics and statistical thermodynamics to explain and interpret experimental observations Presents the theory and experimental results for both thermodynamic and transport properties Examines all transport properties and transport processes as well as their relationships through the pertinent macroscopic coefficients Combines recent knowledge pertaining to nanofluids with the previous fifty years of research on particulate flows including research on transient flow and heat transfer of particulate suspensions Conducts an holistic examination of the material from more than 500 archival publications

A New Era for Microbial Corrosion Mitigation Using Nanotechnology Basma A. Omran,Mohamed Omar Abdel-Salam,2020-07-16 This book focuses on corrosion and microbial corrosion providing solutions for these problems based on nanotechnology and

nanobiotechnology It introduces the causes consequences cost and control of corrosion processes It gives a particular emphasis on microbial corrosion of steel and other metals in oil gas and shipping industries The book presents the materials vulnerable to such kind of corrosion and the use of nanomaterials to control it **Extraction 2018** Boyd R. Davis, Michael S. Moats, Shijie Wang, Dean Gregurek, Joël Kapusta, Thomas P. Battle, Mark E. Schlesinger, Gerardo Raul Alvear Flores, Evgueni Jak, Graeme Goodall, Michael L. Free, Edouard Asselin, Alexandre Chagnes, David Dreisinger, Matthew Jeffrey, Jaeheon Lee, Graeme Miller, Jochen Petersen, Virginia S. T. Ciminelli, Qian Xu, Ronald Molnar, Jeff Adams, Wenying Liu, Niels Verbaan, John Goode, Ian M. London, Gisele Azimi, Alex Forstner, Ronel Kappes, Tarun Bhambhani, 2018-08-18 This three volume set presents papers from the first collaborative global metallurgy conference focused exclusively on extractive topics including business and economic issues Contributions examine new developments in foundational extractive metallurgy topics and techniques and present the latest research and insights on emerging technologies and issues that are shaping the global extractive metallurgy industry The book is organized around the following main themes hydrometallurgy pyrometallurgy sulfide flotation and extractive metallurgy markets and economics **Clean Coal Technologies** Rajesh Kumar Jyothi, Pankaj Kumar Parhi, 2021-05-10 This book presents the state of art of the several advanced approaches to beneficiation of coal The influence of recent technology attains the advantages of processing coal purification studies rheological behavior and the mineral beneficiation The experts collected in this volume have contributed significantly to the enrichment in the in depth knowledge not only in context of working knowledge but also future prospects of clean coal technology Modelling Optimization and Control of Biomedical Systems Efstratios N. Pistikopoulos, Ioana Nascu, Eirini G. Velliou, 2018-01-09 Shows the newest developments in the field of multi parametric model predictive control and optimization and their application for drug delivery systems This book is based on the Modelling Control and Optimization of Biomedical Systems MOBILE project which was created to derive intelligent computer model based systems for optimization of biomedical drug delivery systems in the cases of diabetes anaesthesia and blood cancer These systems can ensure reliable and fast calculation of the optimal drug dosage without the need for an online computer while taking into account the specifics and constraints of the patient model flexibility to adapt to changing patient characteristics and incorporation of the physician s performance criteria and maintaining the safety of the patients Modelling Optimization and Control of Biomedical Systems covers mathematical modelling of drug delivery systems model analysis parameter estimation and approximation optimization and control sensitivity analysis multi parametric programming and model predictive control estimation techniques physiologically based patient model control design for volatile anaesthesia multiparametric model based approach to intravenous anaesthesia hybrid model predictive control strategies Type I Diabetes Mellitus in vitro and in silico block of the integrated platform for the study of leukaemia chemotherapy treatment as a process systems application and more Introduces readers to the Modelling Control and Optimization of Biomedical Systems MOBILE project Presents in detail the

theoretical background computational tools and methods that are used in all the different biomedical systems Teaches the theory for multi parametric mixed integer programming and explicit optimal control of volatile anaesthesia Provides an overview of the framework for modelling optimization and control of biomedical systems This book will appeal to students researchers and scientists working on the modelling control and optimization of biomedical systems and to those involved in cancer treatment anaesthesia and drug delivery systems Treatise on Process Metallurgy, Volume 3: Industrial Processes, 2013-12-09 Process metallurgy provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products Coverage is divided into three volumes entitled Process Fundamentals encompassing process fundamentals extractive and refining processes and metallurgical process phenomena Processing Phenomena encompassing ferrous processing non ferrous processing and refractory reactive and aqueous processing of metals and Industrial Processes encompassing process modeling and computational tools energy optimization environmental aspects and industrial design The work distils 400 years combined academic experience from the principal editor and multidisciplinary 14 member editorial advisory board providing the 2 608 page work with a seal of quality The volumes will function as the process counterpart to Robert Cahn and Peter Haasen s famous reference family Physical Metallurgy 1996 which excluded process metallurgy from consideration and which is currently undergoing a major revision under the editorship of David Laughlin and Kazuhiro Hono publishing 2014 Nevertheless process and extractive metallurgy are fields within their own right and this work will be of interest to libraries supporting courses in the process area Synthesizes the most pertinent contemporary developments within process metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution saving time for busy scientists Helps metallurgists to predict changes and consequences and create or modify whatever process is deployed **Large Meteorite Impacts and Planetary Evolution VI** Wolf Uwe Reimold, Christian Koeberl, 2021-09-23 This volume contains a sizable suite of contributions dealing with regional impact records Australia Sweden impact craters and impactites early Archean impacts and geophysical characteristics of impact structures shock metamorphic investigations post impact hydrothermalism and structural geology and morphometry of impact structures on Earth and Mars Light Metals 2024 Samuel Wagstaff, 2024-02-03 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2024 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Scandium Extraction and Use in Aluminum Alloys Chapter s Online Monitoring of Metal Oxides in Molten Fluoride Electrolytes is available open access under a Creative Commons Attribution 4 0 International License via Springerlink

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