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* Universal gas constant $R = 8.314 \text{ J K}^{-1} \text{ mol}^{-1}$ * Avogadro constant $N_A = 6.022 \times 10^{23} \text{ mol}^{-1}$

PART B - ESSAY

Answer two questions only. (Each question carries 150 marks.)

(a) Consider the reaction (1) given below at a temperature of 800 °C.

 $H_3(g) + I_2(g) \implies 2HI(g)$ -----(1)

Initially, 0.45 mol of HI(g) was introduced into a 1.0 dm³ evacuated rigid closed container at 800 °C, and allowed to reach the equilibrium given above. It was found that 0.05 mol of $H_2(g)$ was present at equilibrium.

- (i) Calculate the equilibrium constant K_{C1}, for the above equilibrium at a temperature of 800 °C.
- (ii) In a separate similar evacuated container at a temperature of 800 °C, reaction (2) takes place with an equilibrium constant K_{C2} = 1.2 × 10⁸ mol⁻¹ dm³.

 $2H_2(g) + S_2(g) \Rightarrow 2H_2S(g) - (2)$

When the two containers are connected together, the following reaction (3) takes place at a temperature of 800 °C.

 $2I_2(g) + 2H_2S(g) \implies S_2(g) + 4HI(g)$ -----(3)

Calculate the equilibrium constant K_{C_3} for the reaction (3) at a temperature of 800 °C.

- (iii) A 1.0 dm³ rigid closed container at a temperature of 800 °C contains an equilibrium mixture of (3) in (ii) above with 5.00 × 10⁻⁵ mol HI(g), 1.25 × 10⁻⁶ mol S₂(g) and 2.50 × 10⁻⁵ mol H₂S(g). Calculate the number of moles of I₂(g) in the above mixture.
- (iv) An extra 2.50×10^{-3} mol $I_2(g)$ was added to the equilibrium mixture in (iii) above at a temperature of 800 °C.
 - Calculate the reaction quotient (Q_C) at the moment the extra I₂(g) is added.
 - II. Explain the change in the equilibrium that takes place upon the addition of extra I2(g).
 - III. Sketch the variation in the concentrations of each constituent in the mixture, with time, upon the addition of extra I₂(g).
 (60 marks)
- (b) (i) Using the data given below, calculate ΔH°, ΔS° and ΔG° for the reaction (4) at 27 °C.

 $H_2(g) + I_2(g) \longrightarrow 2HI(g)$ -----(4)

At 27 °C: $H_2(g) + I_2(s) \rightarrow 2 HI(g)$; $\Delta H^0 = 53 \text{ kJ mol}^{-1}$, $\Delta S^0 = 410 \text{ J K}^{-1} \text{ mol}^{-1}$ $I_2(s) \rightarrow I_2(g)$; $\Delta H^0 = 63 \text{ kJ mol}^{-1}$, $\Delta S^0 = 260 \text{ J K}^{-1} \text{ mol}^{-1}$

(ii) Using the data given below, calculate ΔH^* , ΔS^* and ΔG^* for the reaction (5) at 27 °C. $2 \, \text{H}_2 \text{S(g)} \longrightarrow 2 \, \text{H}_2(\text{g}) + \text{S}_2(\text{g})$ (5)

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practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of Panpsychism and the Emergence of Consciousness Fabian Klinge, 2020-08-31 In this America s oldest public schools book Fabian Klinge develops a novel approach for explaining phenomenal consciousness He defends a version of panpsychism that is the theory that some of the fundamental physical entities exhibit consciousness However in contrast to standard conceptions of the view the author does not take human consciousness to be grounded in but emergent from the consciousness of elementary particles In this form he argues panpsychism can overcome the doctrine's Achilles heel the combination problem without running into similarly severe problems thus rendering panpsychism a strong contender to its problem ridden rivals physicalism and dualism In addition the author provides a thorough analysis of the poorly studied concept of metaphysical emergence He argues that by refining some of the major contributions in the literature emergence can be made intelligible enough to serve as a basis for a credible solution proposal to the mind body problem <u>Teaching at Its Best</u> Linda B. Nilson, Ludwika A. Goodson, 2021-06-16 Bring pedagogy and cognitive science to online learning environments Online Teaching at Its Best Merging Instructional Design with Teaching and Learning Research 2nd Edition is the scholarly resource for online learning that faculty instructional designers and administrators have raved about This book addresses course design teaching and student motivation across the continuum of online teaching modes remote hybrid hyflex and fully online integrating these with pedagogical and cognitive science and grounding its recommendations in the latest research The book will help you design or redesign your courses to ensure strong course alignment and effective student learning in any of these teaching modes Its emphasis on evidence based practices makes this one of the most scholarly books of its kind on the market today This new edition features significant new content including more active learning formats for small groups across the online teaching continuum strategies and tools for scripting and recording effective micro lectures ways to integrate quiz items within micro lectures more conferencing software and techniques to add interactivity and a guide for rapid transition from face to face to online teaching You ll also find updated examples references and quotes to reflect more evolved technology Adopt new pedagogical techniques designed specifically for remote hybrid hyflex and fully online learning environments Ensure strong course alignment and effective student learning for all these

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An Integrated Approach to Environmental Management Dibyendu Sarkar, Rupali Datta, Avinandan Mukherjee, Robyn Hannigan, 2015-11-02 Covers the most recent topics in the field of environmental management and provides a broad focus on

the theoretical and methodological underpinnings of environmental management Provides an up to date survey of the field from the perspective of different disciplines Covers the topic of environmental management from multiple perspectives namely natural sciences engineering business social sciences and methods and tools perspectives Combines both academic rigor and practical approach through literature reviews and theories and examples and case studies from diverse geographic areas and policy domains Explores local and global issues of environmental management and analyzes the role of various contributors in the environmental management process Chapter contents are appropriately demonstrated with numerous pictures charts graphs and tables and accompanied by a detailed reference list for further readings Nicholas Maxwell, 2014-11-05 This book is about education learning rational inquiry philosophy science studies problem solving academic inquiry global problems wisdom and above all the urgent need for an academic revolution Despite this range and diversity of topics there is a common underlying theme Education ought to be devoted much more than it is to the exploration real life open problems it ought not to be restricted to learning up solutions to already solved problems especially if nothing is said about the problems that provoked the solutions in the first place A central task of philosophy ought to be to keep alive awareness of our unsolved fundamental problems especially our most fundamental problem of all encompassing all others How can our human world and the world of sentient life more generally imbued with the experiential consciousness free will meaning and value exist and best flourish embedded as it is in the physical universe This is both our fundamental intellectual problem and our fundamental problem of living The essays in this volume seek to provoke a concerted effort to transform our institutions of learning so that they become rationally and effectively devoted to helping us learn how to create a wiser world Our most serious problems of living are so grim so imbued with suffering wasted lives and unnecessary death that the idea of approaching them in a playful spirit seems sacrilegious We need to keep alive tackling of intellectual problems so that playful capacities can be exercised if for no other reason and other reasons there are of course aplenty There are two really worthy impulses behind all rational inquiry delight and compassion **Handbook Bibliometrics** Rafael Ball, 2020-12-07 Bibliometrics and altmetrics are increasingly becoming the focus of interest in the context of research evaluation The Handbook Bibliometrics provides a comprehensive introduction to quantifying scientific output in addition to a historical derivation individual indicators institutions application perspectives and data bases Furthermore application scenarios training and qualification on bibliometrics and their implications are considered Research advances in nanosciences, micro and nanotechnologies. Volume V José Abraham Balderas López, Mónica Rosalía Jaime Fonseca, 2025-03-02 Many of the great advances in materials medical and measurement devices have been the result of research in the area of nanotechnology a multidisciplinary field to which many research groups in the world are dedicating their human and economic efforts A spectacular development of nanotechnology in the medical field was for instance the obtaining in record time of vaccines to face the recent COVID 19 pandemic others important advances are in the field of

semiconductor devices with the development of integrated circuits with greater density of active elements as well as new light emitting devices or semiconductor materials for applications in optoelectronics It is not surprising then that many research groups in Mexico are devoted to do research in this field of science and technology especially due the fact of the transfer of industries which are expecting to be moved to the country as result of the nearshoring that is the transfer of factories from the country of origin to places close to the market Because of these facts the National Polytechnic Institute one of the best research institutions in M xico is carrying out active research in the field of nanotechnology in its multiple disciplines Some of these results are summarized in this new volume which constitutes the fifth in a series of books generated as result of investigations of members of the nanoscience and micro nanotechnologies network of the National Chemical News and Journal of Physical Science, 1870 *Origin of Life via Archaea* Richard Gordon, 2024-10-01 This book surveys the models for the origin of life and presents a new model starting with shaped droplets and ending with life as polygonal Archaea it collects the most published micrographs of Archaea discovered only in 1977 which support this conclusion and thus provides the first visual survey of Archaea Origin of Life via Archaea s purpose is to add a new hypothesis on what are called shaped droplets as the starting point for flat polygonal Archaea supporting the Vesicles First hypothesis The book contains over 6000 distinct references and micrographs of 440 extant species of Archaea 41% of which exhibit polygonal phenotypes It surveys the intellectual battleground of the many ideas of the origin of life on earth chemical equilibrium autocatalysis and biotic polymers. This book contains 17 chapters some coauthored on a wide range of topics on the origin of life including Archaea's origin patterns and species It shows how various aspects of the origin of life may have occurred at chemical equilibrium not requiring an energy source contrary to the general assumption For the reader's value its compendium of Archaea micrographs might also serve many other interesting questions about Archaea One chapter presents a theory for the shape of flat polygonal Archaea in terms of the energetics at the surface edges and corners of the S layer Another shows how membrane peptides may have originated The book also includes a large table of most extant Archaea that is searchable in the electronic version It ends with a chapter on problems needing further research Audience This book will be used by astrobiologists origin of life biologists physicists of small systems geologists biochemists theoretical and vesicle chemists Fundamentals of Weed Science Robert L Zimdahl, Nicholas T. Basinger, 2024-02-14 Fundamentals of Weed Science Sixth Edition places weed management in the context of weed research and science presenting the latest advances in the role control and potential uses of weed plants This book uses an ecological framework to explore the role of responsible and effective weed control in agriculture from the emergence and genetic foundation of weeds to the latest means of control and environmental effects Fully revised updated and expanded Fundamentals of Weed Science now includes insights into international trad eand consumer preferences weed seedbanks advancements in robotic weeding weed flaming and the potential of precision agriculture in weed science Includes an emphasis on herbicide

resistance and molecular biology both of which have come to dominate weed science research Covers all traditional aspects of weed science as well as current research Provides broad coverage including relevant related subjects like weed ecology and weed population genetics **Just Beyond Listening** Michael C. Heller, 2023-11-14 Just Beyond Listening asks how we might think about encounters with sound that complicate standard accounts of aurality In a series of essays Michael C Heller considers how sound functions in dialogue with a range of sensory and affective modalities including physical co presence textual interference and spectral haunting The text investigates sound that is experienced in other parts of the body altered by cross wirings of the senses weaponized by the military or mediated and changed by cultural practices and memory Building on recent scholarship in sound studies and affect theory Heller questions not only how sound propagates acoustically but how sonic presences temper our total experience of the world around us Thermodynamics for Drug <u>Product Design</u> William Craig Stagner, 2025-09-23 Comprehensive reference reviewing how thermodynamic principles underpin the design of drug products and their applications Written in an easy to read and understand style Thermodynamics for Drug Product Design offers an abundance of real life drug product design examples applications personal anecdotes and solved problems that contextualize thermodynamic principles for the drug product design scientist Advanced undergraduate and beginning graduate students will learn to apply thermodynamic principles to create robust drug products and to predict prevent analyze and evaluate the root cause of product failures Professionals engaged in drug product design will find this book to be a rich and easy to use reference guide The first two chapters address some key basics of data reporting and analysis math and thermodynamic properties using simple and accessible language These chapters also help readers understand fundamental underlying definitions and physical relationships required to use thermodynamic laws in the design of drug products In later chapters the book focuses on six industrial pharmacy relevant thermodynamic topics the laws of thermodynamics Gibbs free energy equilibrium drug solubility equilibrium surface thermodynamics and adsorption phenomena Thermodynamics for Drug Product Design features chapters including Data Reporting and Analysis Underlying Thermodynamic Physical Property Relationships and Definitions The Laws of Thermodynamics Gibbs Free Energy Equilibrium Drug Solubility Equilibrium Surface Thermodynamics Adsorption Phenomena What others say comprehensive rigorous and logically organized the explanations flow effortlessly from the page BRUNO HANCOCK PhD FAAPS Editor JPharmSci has a unique style of communicating complex scientific issues KEN MORRIS PhD FAAPS Professor Emeritus Founding Director Lachman Institute unusual wide range of subjects unusual for detail DALE ERIC WURSTER PhD FAAPS Professor Emeritus 2019 AAPS President Chemical News ,1870

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