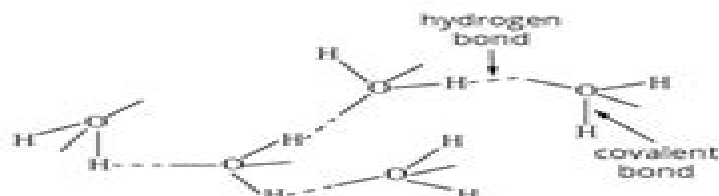


## Answers to workbook worksheets

Teacher Notes

## Worksheet 25 Wonderful water—structure and properties

1



- 2
- covalent
  - The O—H covalent bond is polarised because the more electronegative oxygen atom in a water molecule carries a partial negative charge and the hydrogen atoms carry a partial positive charge. The molecule is asymmetrical so it is a polar molecule.
  - see diagram for Question 1
  - Hydrogen bonding occurs between the positive partial charge on a hydrogen atom and a non-bonding pair of electrons on an oxygen atom from a different molecule.
  - examples: ammonia, hydrogen fluoride, ethanol
  - The high electronegativity of O, N and F atoms, along with their small atomic size, makes the covalent bonds they form with H atoms highly polarised. The attraction between a strong positive partial charge on the H atom and a non-bonding pair of electrons on the O, N or F atoms carrying a strong partial negative charge is relatively strong.
- 3
- High latent heat of vaporisation: The water molecules can absorb a lot of energy before the hydrogen bonds between them are overcome and evaporation from liquid to gas occurs. This makes water, as sweat, a very good coolant for the human body.
- High heat capacity: Water helps to prevent overheating during exercise because the relatively strong hydrogen bonding means large amounts of energy can be absorbed by the water molecules for a relatively small increase in temperature.
- Good solvent: Nutrients for energy are delivered to the cells, and metabolic wastes are transported away and excreted, all in aqueous solution, while all of the metabolic processes for obtaining energy for exercise are aqueous reactions within cells. The ability of water to form hydrogen bonds and ion-dipole attractions to these solutes allows them to dissolve.

## Worksheet 26 Specific heat capacity—calculating energy

- 1
- energy,  $1^{\circ}\text{C}$
  - $C$ ,  $\text{J g}^{-1}^{\circ}\text{C}^{-1}$ ,  $4.18 \text{ J g}^{-1}^{\circ}\text{C}^{-1}$
  - $q$ ,  $q = C \times m \times \Delta T$ , specific heat capacity, mass, change in temperature
- 2
- $q = 4.18 \times 240 \times (100 - 18) = 8.23 \times 10^4 \text{ J} = 82.3 \text{ kJ}$
  - assume 3.0 L of water = 3000 g;  $q = 4.18 \times 3000 \times (100 - 25) = 9.41 \times 10^5 \text{ J} = 941 \text{ kJ}$
- 3
- assume 200 mL of water = 200 g;  $5000 = 4.18 \times 200 \times \Delta T$ , thus  $\Delta T = 6.0^{\circ}\text{C}$
- 4
- $1000 = 4.18 \times m \times (35 - 10)$ , thus  $m = 9.6 \text{ g}$

# Heinemann Chemistry 1 Chapter 11 Answers

**Gregory Choppin, Jan-Olov Liljenzin, Jan  
Rydberg**



## Heinemann Chemistry 1 Chapter 11 Answers:

*A Practical Guide to Welding Solutions* Robert W. Messler, Jr., 2019-04-29 As critically important as welding is to a wide spectrum of manufacturing construction and repair it is not without its problems Those dependent on welding know only too well how easy it is to find information on the host of available processes and on the essential metallurgy that can enable success but how frustratingly difficult it can be to find guidance on solving problems that sooner or later arise with welding welds or weldments Here for the first time is the book those that practice and or depend upon welding have needed and awaited *A Practical Guide to Welding Solutions* addresses the numerous technical and material specific issues that can interfere with success Renowned industrial and academic welding expert and prolific author and speaker Robert W Messler Jr guides readers to the solutions they seek with a well organized search based on how a problem manifests itself i e as distortion defect or appearance where it appears i e in the fusion zone heat affected zone or base metal or it certain materials or situations

*Electrochemistry in Nonaqueous Solutions* Kosuke Izutsu, 2009-09-22 An excellent resource for all graduate students and researchers using electrochemical techniques After introducing the reader to the fundamentals the book focuses on the latest developments in the techniques and applications in this field This second edition contains new material on environmentally friendly solvents such as room temperature ionic liquids

*Physical Chemistry of Metallurgical Processes* M. Shamsuddin, 2016-02-01 This book covers various metallurgical topics viz roasting of sulfide minerals matte smelting slag reduction of oxides and reduction smelting interfacial phenomena steelmaking secondary steelmaking role of halides in extraction of metals refining hydrometallurgy and electrometallurgy Each chapter is illustrated with appropriate examples of applications of the technique in extraction of some common reactive rare or refractory metal together with worked out problems explaining the principle of the operation

*Radiochemistry and Nuclear Chemistry* Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, 2002 Origin of Nuclear Science Nuclei Isotopes and Isotope Separation Nuclear Mass and Stability Unstable Nuclei and Radioactive Decay Radionuclides in Nature Absorption of Nuclear Radiation Radiation Effects on Matter Detection and Measurement Techniques Uses of Radioactive Tracers Cosmic Radiation and Elementary Particles Nuclear Structure Energetics of Nuclear Reactions Particle Accelerators Mechanics and Models of Nuclear Reactions Production of Radionuclides The Transuranium Elements Thermonuclear Reactions the Beginning and the Future Radiation Biology and Radiation Protection Principles of Nuclear Power Nuclear Power Reactors Nuclear Fuel Cycle Behavior of Radionuclides in the Environment Appendices Solvent Extraction Separations Answers to Exercises Isotope Chart Periodic Table of the Elements Quantities and Units Fundamental Constants Energy Conversion Factors Element and Nuclide Index Subject Index

*Thermodynamics of Solutions* Eli Ruckenstein, Ivan L. Shulgin, 2009-06-17 This book consists of a number of papers regarding the thermodynamics and structure of multicomponent systems that we have published during the last decade Even though they involve different topics and different systems they have something in common which can be

considered as the signature of the present book First these papers are concerned with difficult or very nonideal systems i e systems with very strong interactions e g hyd gen bonding between components or systems with large differences in the partial molar v umes of the components e g the aqueous solutions of proteins or systems that are far from normal conditions e g critical or near critical mixtures Second the conventional th modynamic methods are not sufficient for the accurate treatment of these mixtures Last but not least these systems are of interest for the pharmaceutical biomedical and related ind tries In order to meet the thermodynamic challenges involved in these complex mixtures we employed a variety of traditional methods but also new methods such as the fluctuation t ory of Kirkwood and Buff and ab initio quantum mechanical techniques The Kirkwood Buff KB theory is a rigorous formalism which is free of any of the proximations usually used in the thermodynamic treatment of multicomponent systems This theory appears to be very fruitful when applied to the above mentioned difficult systems

*Principles of Organic Chemistry* Peter R. S. Murray, 1977

**Inorganic Chemistry** J. E. House, 2012-10-30 This textbook provides essential information for students of inorganic chemistry or for chemists pursuing self study The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly Inorganic Chemistry 2E is divided into five major themes structure condensed phases solution chemistry main group and coordination compounds with several chapters in each There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures to behavior of solids etc The author emphasizes fundamental principles including molecular structure acid base chemistry coordination chemistry ligand field theory and solid state chemistry and presents topics in a clear concise manner There is a reinforcement of basic principles throughout the book For example the hard soft interaction principle is used to explain hydrogen bond strengths strengths of acids and bases stability of coordination compounds etc The book contains a balance of topics in theoretical and descriptive chemistry New to this Edition New and improved illustrations including symmetry and 3D molecular orbital representations Expanded coverage of spectroscopy instrumental techniques organometallic and bio inorganic chemistry More in text worked out examples to encourage active learning and to prepare students for their exams Concise coverage maximizes student understanding and minimizes the inclusion of details students are unlikely to use Discussion of elements begins with survey chapters focused on the main groups while later chapters cover the elements in greater detail Each chapter opens with narrative introductions and includes figures tables and end of chapter problem sets

Energy Research Abstracts , 1986

*Salter's Higher Chemistry* Gwen Pilling, 1999 This work is the accompanying teacher s book to the student book and gives the answers to all the questions in the student book together with details of how the student book delivers all the content statements in Higher chemistry

**Metal—Ammonia Solutions** Sam Stuart, 2013-10-22 Metal Ammonia Solutions contains the proceedings of an International Conference on the Nature of Metal Ammonia Solutions Colloque Weyl II held at Cornell University in Ithaca New York on June 15 19 1969 The papers explore the nature of metal

ammonia solutions and cover topics ranging from the dilemma of metal ammonia models to the magnetic properties of metal ammonia solutions the reactions of such solutions and solid metal ammonia compounds This monograph is comprised of 39 chapters and begins with an overview of models for the concentration dependence of the properties of dilute metal ammonia solutions The discussion then turns to a continuous dielectric model for the solvated dielectron in dielectric media elementary electronic excitations in insulating liquids and magnetic properties of metal ammonia solutions The chapters that follow focus on the kinetics of the reaction between sodium and ethanol in liquid ammonia electrons trapped in solids metal nonmetal transition and phase separation and optical spectra of alkali metal ammonia solutions This text will be a valuable resource for chemists and chemistry students *Martin's Physical Pharmacy and Pharmaceutical Sciences* Patrick J.

Sinko, 2023-03-01 Consistently revised and updated for more than 60 years to reflect the most current research and practice Martin's Physical Pharmacy and Pharmaceutical Sciences 8th Edition is the original and most comprehensive text available on the physical chemical and biological principles that underlie pharmacology and the pharmaceutical sciences An ideal resource for PharmD and pharmacy students worldwide teachers researchers or industrial pharmaceutical scientists this 8th Edition has been thoroughly revised enhanced and reorganized to provide readers with a clear consistent learning experience that puts essential principles and concepts in a practical approachable context Updated content reflects the latest developments and perspectives across the full spectrum of physical pharmacy and a new full color design makes it easier than ever to discover distinguish and understand information providing users the most robust support available for applying the elements of biology physics and chemistry in work or study **Active Protective Coatings** Anthony E.

Hughes, Johannes M.C. Mol, Mikhail L. Zheludkevich, Rudolph G. Buchheit, 2016-03-01 This book covers a broad range of materials science that has been brought to bear on providing solutions to the challenges of developing self healing and protective coatings for a range of metals The book has a strong emphasis on characterisation techniques particularly new techniques that are beginning to be used in the coatings area It features many contributions written by experts from various industrial sectors which examine the needs of the sectors and the state of the art The development of self healing and protective coatings has been an expanding field in recent years and applies a lot of new knowledge gained from other fields as well as other areas of materials science to the development of coatings It has borrowed from fields such as the food and pharmaceutical industries who have used polymer techniques sol gel science and colloidosome technology for a range of encapsulation techniques It has also borrowed from fields like hydrogen storage such as from the development of hierarchical and other materials based on organic templating as nanocontainers for the delivery of inhibitors In materials science recent developments in high throughput and other characterisation techniques such as those available from synchrotrons are being increasingly used for novel characterisation one only needs to look at the application of these techniques in self healing polymers to gauge wealth of new information that has been gained from these techniques This

work is largely driven by the need to replace environmental pollutants and hazardous chemicals that represent risk to humans such as chromate inhibitors which are still used in some applications      *Wastewater Treatment* Muharrem Ince, Olcay Kaplan Ince, 2022-09-28 This book focuses on advances in monitoring and controlling wastewater treatment processes using recent technologies It also discusses new and groundbreaking developments in the field of organic inorganic pollution As a comprehensive book it takes a broad view of the subject and integrates a wide variety of approaches Written by leading experts in their fields this book is highly recommended for readers and scholars interested in environmental and human health      Chemical Process Equipment James R. Couper, W. Roy Penney, 2012-09-19 First published Chemical process equipment Stanley M Walas 1988      Food Colloids Eric Dickinson, Martin E Leser, 2007-10-31 Food structure at the molecular level and how it impacts on health taste texture and shelf life is becoming an increasingly important area of science Food Colloids Self Assembly and Material Science describes new developments in the theory and practice of the formulation of food emulsions dispersions gels and foams Particular emphasis is placed on the self assembly of surfactants and biopolymers in food Topics include colloid science in food nutrition and the relationship of texture to sensory perception of food materials It also discusses the exploitation of surfactant mesophases for nanoscale encapsulation the interfacial rheological properties of mixed interfaces the dynamics and microrheology of gels and emulsions the stability of droplets and bubbles the effects of thermal and mechanical processing on food colloid stability and the electrostatic interactions of proteins with polysaccharides This authoritative book will serve as a guide and reference to researchers in the field of food colloids      **Fundamentals of Geoenvironmental Engineering** Abdel-Mohsen O. Mohamed, Evan K. Paleologos, 2017-10-31 Fundamentals of Geoenvironmental Engineering Understanding Soil Water and Pollutant Interaction and Transport examines soil water pollutant interaction including physico chemical processes that occur when soil is exposed to various contaminants Soil characteristics relevant to remedial techniques are explored providing foundations for the correct process selection Built upon the authors extensive experience in research and practice the book updates and expands the content to include current processes and pollutants The book discusses propagation of soil pollution and soil characteristics relevant to remedial techniques Practicing geotechnical and environmental engineers can apply the theory and case studies in the book directly to current projects The book first discusses the stages of economic development and their connections to the sustainability of the environment Subsequent chapters cover waste and its management soil systems soil water and soil pollutant interactions subsurface transport of pollutants role of groundwater nano micro and biologic pollutants soil characteristics that impact pollution diffusion and potential remediation processes like mechanical electric magnetic hydraulic and dielectric permittivity of soils Presents a clear understanding of the propagation of pollutants in soils Identifies the physico chemical processes in soils Covers emerging pollutants nano micro and biologic contaminants Features in depth coverage of hydraulic electrical magnetic and dielectric permittivity characteristics of soils and their impact on remedial technologies      General Catalogue

of Printed Books to 1955 British Museum. Dept. of Printed Books, 1967

*Bio-Geotechnologies for Mine Site Rehabilitation* M.N.V. Prasad, Paulo Jorge de Campos Favas, Subodh Kumar Maiti, 2018-01-02 Bio Geotechnologies for Mine Site Rehabilitation deals with the biological physical chemical and engineering approaches necessary for the reclamation of mine waste As mining has negative effects on natural resources and deteriorates the quality of the surrounding environment this book provides coverage across different types of mining industries which are currently creating industrial deserts overloaded with technogenic waste The book offers cost effective strategies and approaches for contaminated sites along with remediation and rehabilitation methods for contaminated soils and waste dumps It is an essential resource for students and academics but is also ideal for applied professionals in environmental geology mineral geologists biotechnologists and policymakers Deals with global and holistic approaches of abandoned mine land rehabilitation Includes mine waste rehabilitation case studies from around the world Covers integrated technologies such as bioremediation of metalliferous soil Provide strategies for sustainable ecosystems on mine spoil dumps Offers novel methods for the remediation of acid mine drainage

**Chemical Thermodynamics for Industry** Trevor M Letcher, 2007-10-31 Chemical Thermodynamics for Industry presents the latest developments in applied thermodynamics and highlights the role of thermodynamics in the chemical industry Written by leading experts in the field Chemical Thermodynamics for Industry covers the latest developments in traditional areas such as calorimetry microcalorimetry transport properties crystallization adsorption electrolyte systems and transport fuels It highlights newly established areas such as multiphase modeling reactive distillation non equilibrium thermodynamics and spectro calorimetry It also explores new ways of treating old technologies as well as new and potentially important areas such as ionic liquids new materials ab initio quantum chemistry nano particles polymer recycling clathrates and the economic value of applied thermodynamics This book is aimed not only at those working in a specific area of chemical thermodynamics but also at the general chemist the prospective researcher and those involved in funding chemical research

*Process Intensification Technologies for Green Chemistry* Kamelia Boodhoo, Adam Harvey, 2013-01-03 The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also and as importantly on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe cost effective and energy efficient manner Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement whilst also offering the potential to diminish the environmental impact presented by the chemical industry Following an introduction to process intensification and the principles of green chemistry this book presents a number of intensified technologies which have been researched and developed including case studies to illustrate their application to green chemical processes Topics covered include Intensified reactor technologies spinning disc reactors microreactors monolith reactors oscillatory flow reactors cavitation reactors Combined reactor separator systems membrane reactors

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