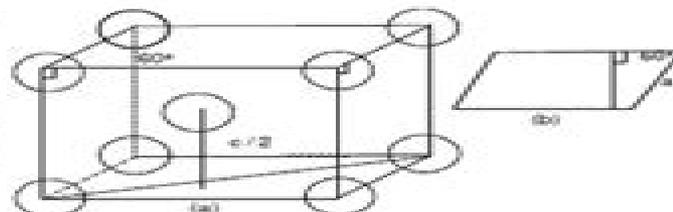


(6x4=24 Marks)

- Which of the following statement is(are) correct for the diamond structure?
 (A) Each atom has 4 nearest neighbors and 12 next nearest neighbour
 (B) The maximum proportion of the unit cell which may be filled by hard spheres is only 0.34.
 (C) The maximum proportion of the unit cell which may be filled by hard spheres is only 0.46.
 (D) None of these
- The mineral hawleyite. One form of CdS, crystallizer in one of the cubic lattices with edge length 5.67\AA . The density of hawleyite is 4.63 g cm^{-3} .
 (i) In which lattice does hawleyite crystallize?
 (ii) Find the schottky defect in gm cm^{-3}
- If all the atoms touching one face plane are removed in solid $A'B'$ having rock salt type structure, then calculate the formula of the compound and the defect brought by this removal.
- 100 ml 0.2 M NiCl_2 is treated with 100 ml 0.3 M dimethyl glyoxime then the mass of ppt (gm) formed will be (Ni=58.7)
- A yellow solid (A) is insoluble in water. It dissolves slowly in hot concentrated HNO_3 and a brown gas is evolved. Solid (A) gets dissolved in boiling Na_2SO_3 solution to form a clear solution (B). On acidification of this solution of (B), a colourless gas (C) with burning sulphur smell comes out along with white turbidity due to the formation of D. Which of the following statement/s is/are correct?
 (A) A and D may be similar compound
 (B) B is used in iodometric titration
 (C) B is used in removal of hardness of water
 (D) D solution in lyophobic colloid
- (i) A white precipitate (B) is formed when a mineral (A) is boiled with Na_2CO_3 solution
 (ii) the precipitate is filtered and the filtrate contains two compounds (C) and (D). The compound (C) is removed by crystallization and when CO_2 is passed through the mother liquor left (D) changes to (C).
 (iii) The compound (C) on strong heating gives two compounds (D) and (E).
 (iv) (E) on heating with cobalt oxide produces blue coloured substance (F)
 Identify (A) to (F) and give chemical equations for the reactions at steps (i) to (iv)

(2x8=16 Marks)

- Iron crystallizes in two bcc lattices the α -form below 910°C and the β form above 1400°C and in a fcc form between these two temperature of these three crystalline phases. Only the γ form can dissolve appreciable amount of carbon.
 a) What is the symmetry of a hole centered in a face of a body centered cubic unit cell and what is the max ratio of a foreign particle radius occupying such a hole to the host ion radius.
 b) What is the position of a hole whose coordinates are $(0, a/2, a/4)$ in a bcc unit cell and what is the max ratio of a foreign particle radius occupying such a hole to the host ion radius.
 c) Why does only γ form can dissolve appreciable amounts of carbon?
 - Potassium selenate is isomorphous with potassium sulphate and contains 50.0% of Se. What is the atomic weight of Se?
- The hexagonal close-packed lattice can be represented by figure. If $c = a\sqrt{8/3} = 1.633a$. There is an atom at each corner of the unit cell and another atom which can be located by moving one-third the distance along the diagonal of the rhombus base, starting at the lower left-hand corner and moving perpendicularly upward by $c/2$ figure. Mg crystallizes in this lattice and has a density of 1.74 g/cm^3 .
 (a) What is the volume of the unit cell?
 (b) What is a ?
 (c) What is the distance between nearest neighbors?
 (d) How nearest neighbor does each atom have?



Chemistry Olympiad 2013 Study Guide

Union of International Associations



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Theory And Problems For Chemistry Olympiad: Challenging Concepts In Chemistry Zhihan Nan, Sheng Zhang, 2019-11-19

This study guide for the Chemistry Olympiad contains summarized concepts and examples in all areas of chemistry. The chapters are arranged in a logical manner and establishes connections between concepts. Undergraduate chemistry concepts are explained clearly every equation in physical chemistry is derived and justified while every organic reaction has its reaction mechanism shown and explained without assuming that readers have university level background in the subject. The book also contains original Chemistry Olympiad sample problems that readers may use to test their knowledge. This is a first book of its kind written by Nan Zhihan International Chemistry Olympiad IChO gold medallist and winner of the International Union of Pure and Applied Chemistry IUPAC Prize for achieving the highest score in the experimental exam and experienced Chemistry Olympiad trainer Dr Zhang Sheng who has served as head mentor of Singapore IChO team for many years. It builds on the experience of both a participant and trainer to help any aspiring Chemistry Olympiad student understand the challenging concepts in chemistry.

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How to Enhance Learning Efficiency When Online Learning is Popular and Indispensable: Theory, Research and Practice Rong Lian,Chang Liu ,Juzhe Xi,2024-07-17 Online learning has become more and more common globally whether for comfort adapting to work hours or just having the freedom to study from anywhere And now under the coronavirus pandemic as people are having to stay at home it has become more important than ever Although the popularity of wireless network and portable smart device makes it possible for people to acquire and learn knowledge anytime and anywhere it does not necessarily mean an increased learning performance Relevant research in cognitive science has revealed possible limitations in online learning For example the knowledge acquired through online learning tends to be fragmented and lacks guidance for integrated thinking among different subjects which makes it difficult for learners to form a systematic knowledge structure Learners may experience cognitive overload metacognitive illusion and low learning efficiency in self regulated learning It follows that in the post COVID 19 era online learning puts forward new requirements and challenges to the contemporary students not only to their learning strategies but positive character traits in learning Most of the current learning theories were developed in the early 20th century and may not fit in well with the current situation then possibly leading to inefficient learning and increased learning burden Therefore it is necessary and important to reexplore the influencing factors and mechanisms that affect the learning efficiency of students at all levels nowadays based on which we could construct a theoretical model of efficient learning model

Study Guide for Chemical Principles [by] Steven S. Zumdahl Steven S. Zumdahl,Paul B. Kelter,1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples

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Yearbook of International Organizations ,1967 *Chemical Principles Student's Study Guide & Solutions Manual* John Krenos,Joseph Potenza,Loretta Jones,Lynn Koplitz,Thomas Spence,2004-03-19 This

combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text

Chemistry Olympiad All Chapters Combined MCQ Workbook Class 9 Priti Singhal,2024-12-08 This book ONE FOR ALL OLYMPIADS CHEMISTRY WORKBOOK CLASS 09 is specially crafted to ignite curiosity and foster a love for science in young minds Designed with the unique needs of graders it provides a comprehensive introduction to fundamental scientific concepts through engaging age appropriate content Our primary goal is to make learning science enjoyable and enriching The book is filled with colourful illustrations real life examples and interactive exercises that help children understand and relate to the world around them Each chapter is carefully structured to build on prior knowledge ensuring a steady progression in learning

Olympiads Chemistry Kumar, 10 Things You Must Know About The International Chemistry Olympiad (Icho): A Guide To The Icho Competition (Revised Edition) I-jy Chang,Fun Man Fung,2023-02-17 This is a book dedicated to special groups in the community whom we reach out to promote chemistry interest and learning chemistry It will be immensely useful to students parents who are interested in Science Olympiads Chemistry Olympiad chemistry instructors at the secondary and collegiate level and other science instructors at the secondary and collegiate level This is a one of a kind book that details the behind the scenes preparation and trainings that students undergo in various countries It will enable the effective promotion of chemistry in your respective countries and around the globe

Study Guide, Chemical Principles, Fifth Edition, Zumdahl Paul B. Kelter,Steven S. Zumdahl,2004-04 **Student Study Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry** Denise Guinn,Rebecca Brewer,Rachel C. Lum,2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to help them avoid common mistakes and understand key concepts After a brief review of each section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered exercises in the text

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