

Chemistry – Unit 5 Worksheet 2

1. An old (pre-1987) penny is nearly pure copper. If such a penny has a mass of 3.3 g, how many moles of copper atoms would be in one penny?

$$3.3 \text{ g} \times \frac{\# \text{ of moles}}{\# \text{ of grams}} =$$

$$3.3 \text{ g} \times \frac{1 \text{ mol}}{63.55 \text{ g}} = \boxed{0.052 \text{ mol}}$$

2. Four nails have a total mass of 4.42 grams. How many moles of iron atoms do they contain?

$$4.42 \text{ g} \times \frac{\# \text{ of moles}}{\# \text{ of g}} = 4.42 \text{ g} \times \frac{1 \text{ mol}}{55.85 \text{ g/mol}}$$

$$\boxed{0.079 \text{ mol Fe}}$$

3. A raindrop has a mass of 0.050 g. How many moles of water does a raindrop contain?

$$\text{m.m. of water} \quad 2 \times 1.01 \text{ g/mol} + 1 \times 16 \text{ g/mol} = 18.02 \text{ g/mol}$$

$$0.05 \text{ g} \times \frac{1 \text{ mol}}{18.02 \text{ g}} = 0.0028 \text{ mol H}_2\text{O}$$

4. What mass of water would you need to have 15.0 moles of H₂O?

$$\text{m.m. water} = 18.02 \text{ g/mol}$$

$$15 \text{ mol} \times \frac{\# \text{ of g}}{1 \text{ mol}} = 15 \text{ mol} \times \frac{18.02 \text{ g}}{1 \text{ mol}} = \boxed{270.3 \text{ g}}$$

5. One box of Morton's Salt contains 737 grams. How many moles of sodium chloride (NaCl) is this?

m.m. NaCl:

$$\text{Na: } 22.99$$

$$\text{Cl: } 35.45$$

$$\hline 58.44 \text{ g/mol}$$

$$737 \text{ g} \times \frac{1 \text{ mol}}{58.44 \text{ g}} = \boxed{12.61 \text{ mol}}$$

6. A chocolate chip cookie recipe calls for 0.050 moles of baking soda (sodium bicarbonate, NaHCO₃). How many grams should the chef mass out?

m.m. NaHCO₃:

$$22.99 + 1.01 +$$

$$12.01 + 48 = \frac{84.01}{\text{g/mol}}$$

$$0.05 \text{ mol} \times \frac{84.01 \text{ g}}{1 \text{ mol}} = \boxed{4.2 \text{ g NaHCO}_3}$$

7. Rust is iron (III) oxide (Fe₂O₃). The owner of a 1959 Cadillac convertible wants to restore it by removing the rust with oxalic acid, but he needs to know how many moles of rust will be involved in the reaction. How many moles of iron (III) oxide are contained in 2.50 kg of rust?

m.m. Fe₂O₃

$$2 \times 55.85 = 111.7$$

$$3 \times 16 = \frac{48}{159.7}$$

$$2.5 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ mol}}{159.7 \text{ g}} = \boxed{15.65 \text{ mol Fe}_2\text{O}_3}$$

Unit 5 Ws 1 Energy V1 0 Answer

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Sohn**

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EBOOK: Fluid Mechanics Fundamentals and Applications (SI units) Yunus Cengel, John Cimbala, 2013-10-16 Fluid Mechanics Fundamentals and Applications is written for the first fluid mechanics course for undergraduate engineering students with sufficient material for a two course sequence This Third Edition in SI Units has the same objectives and goals as previous editions Communicates directly with tomorrow s engineers in a simple yet precise manner Covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real world engineering examples and applications Helps students develop an intuitive understanding of fluid mechanics by emphasizing the physical underpinning of processes and by utilizing numerous informative figures photographs and other visual aids to reinforce the basic concepts Encourages creative thinking interest and enthusiasm for fluid mechanics New to this edition All figures and photographs are enhanced by a full color treatment New photographs for conveying practical real life applications of materials have been added throughout the book New Application Spotlights have been added to the end of selected chapters to introduce industrial applications and exciting research projects being conducted by leaders in the field about material presented in the chapter New sections on Biofluids have been added to Chapters 8 and 9 Addition of Fundamentals of Engineering FE exam type problems to help students prepare for Professional Engineering exams **Treatise on Process Metallurgy** Roderick Guthrie, Alexander McLean, Sridhar Seetharaman, H. Y. Sohn, 2024-01-25 Treatise on Process Metallurgy Volume One Process Fundamentals provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics Physics For NEET/AIIMS Volume 1 Jain, M.C., Physics for NEET Volume I has been written in a simplistic style which helps the student to not only study by themselves but also accrue confidence of knowing concepts by solving numerous MCQs which are aptly placed based on the level of difficulty The book covers topics which are normally part of Class XI syllabus and are replete with Illustrations and previous years questions Test papers also add to the practice quotient of the book and with solutions to almost all questions the book provides a complete practice based atmosphere for the student to revel in Solution NMR of Paramagnetic

Molecules Ivano Bertini, Claudio Luchinat, Giacomo Parigi, 2001-07-04 NMR is a growing technique which represents a generalized spread common tool for spectroscopy and for structural and dynamic investigation Part of the field of competence of NMR is represented by molecules with unpaired electrons which are called paramagnetic The presence of unpaired electrons is at the same time a drawback negative effect and a precious source of information about structure and dynamics New phenomena and effects are described which are due to the high magnetic fields and advances in the methodology Solution NMR of Paramagnetic Molecules is unique in dealing with these matters The scope is that of presenting a complete description which is both rigorous and pictorial of theory and experiments of NMR of paramagnetic molecules in solution Pertinent examples are described From the time dependent behaviour of electrons in the various metal ions including polimetallic systems to the hyperfine based information and from NMR experiments to constraints for solution structure determination The book s major theme is how to perform high resolution NMR experiments and how to obtain structural and dynamic information on paramagnetic metal ion containing systems Zeitschrift Für Naturforschung ,1997

Integrated Green Energy Solutions, Volume 2 Milind Shrinivas Dangate, W. S. Sampath, O. V. Gnana Swathika, Sanjeevikumar Padmanaban, 2023-05-12 INTEGRATED GREEN ENERGY SOLUTIONS This second volume in a two volume set continues to present the state of the art for the concepts practical applications and future of renewable energy and how to move closer to true sustainability Renewable energy supplies are of ever increasing environmental and economic importance in every country in the world A wide range of renewable energy technologies has been established commercially and recognized as an important set of growth industries for most governments World agencies such as the United Nations have extensive programs to encourage these emerging technologies This book will bridge the gap between descriptive reviews and specialized engineering technologies It centers on demonstrating how fundamental physical processes govern renewable energy resources and their applications Although the applications are being updated continually the fundamental principles remain the same and this book will provide a useful platform for those advancing the subject and its industries Integrated Resilient Energy Solutions is a two volume set covering subjects of proven technical and economic importance worldwide Energy supply from renewables is an essential component of every nation s strategy especially when there is responsibility for the environment and sustainability These two volumes will consider the timeless renewable energy technologies principles yet demonstrate modern applications and case studies Whether for the veteran engineer student or other professional these two volumes are a must have for any library Solar Neutrinos Raymond Davis, Jr., 2018-05-11 A variety of evolutionary sequences of models for the solar interior has been computed corresponding to variations in input data to obtain some idea of the uncertainties involved in predicting a solar neutrino flux It is concluded that the neutrino flux can be estimated to within a factor of 2 the primary uncertainty being the initial homogeneous solar composition detailed results are given With a preferred value of the heavy element to hydrogen ratio $Z/X = 0.028$ the helium content necessary to fit

a model to the observed solar luminosity is found to be $Y \approx 0.27$ **NRL Quarterly on Nuclear Science and Technology** Naval Research Laboratory (U.S.),1963 **NASA Technical Translation** United States. National Aeronautics and Space Administration,1966 **Munson, Young and Okiishi's Fundamentals of Fluid Mechanics** Andrew L. Gerhart,John I. Hochstein,Philip M. Gerhart,2021 Munson Young and Okiishi's Fundamentals of Fluid Mechanics is intended for undergraduate engineering students for use in a first course on fluid mechanics Building on the well established principles of fluid mechanics the book offers improved and evolved academic treatment of the subject Each important concept or notion is considered in terms of simple and easy to understand circumstances before more complicated features are introduced The presentation of material allows for the gradual development of student confidence in fluid mechanics problem solving This International Adaptation of the book comes with some new topics and updates on concepts that clarify enhance and expand certain ideas and concepts The new examples and problems build upon the understanding of engineering applications of fluid mechanics and the edition has been completely updated to use SI units *Title List of Documents Made Publicly Available* ,1991-08 **Applied Mechanics Reviews** ,1948 **The Energy Index** ,1981 **Thermodynamics** Prasanna Kumar,2013 Designed for undergraduate students of mechanical engineering Thermodynamics offers a lucid treatment of the concepts dealt with in their core paper on thermodynamics It is an easily readable and compact book that covers all topics that are relevant to a basic course on thermodynamics without any let up on academic rigor required for a thorough understanding of the subject Equilibrium in Solutions ; Surface and Colloid Chemistry George Scatchard,1976 This volume brings together two previously unpublished works by the late George Scatchard One of the most eminent physical chemists of this century Scatchard in collaboration with Edwin Cohn had enormous influence on the development of protein chemistry **Global Well-posedness and Asymptotic Behavior of the Solutions to Non-classical Thermo(visco)elastic Models** Yuming Qin,Zhiyong Ma,2016-07-29 This book presents recent findings on the global existence the uniqueness and the large time behavior of global solutions of thermo viscoelastic systems and related models arising in physics mechanics and materials science such as thermoviscoelastic systems thermoelastic systems of types II and III as well as Timoshenko type systems with past history Part of the book is based on the research conducted by the authors and their collaborators in recent years The book will benefit interested beginners in the field and experts alike

Mechanics of Solids and Materials Robert Asaro,Vlado Lubarda,2006-01-16 Mechanics of Solids and Materials intends to provide a modern and integrated treatment of the foundations of solid mechanics as applied to the mathematical description of material behavior The 2006 book blends both innovative large strain strain rate temperature time dependent deformation and localized plastic deformation in crystalline solids deformation of biological networks and traditional elastic theory of torsion elastic beam and plate theories contact mechanics topics in a coherent theoretical framework The extensive use of transform methods to generate solutions makes the book also of interest to structural mechanical and aerospace

engineers Plasticity theories micromechanics crystal plasticity energetics of elastic systems as well as an overall review of math and thermodynamics are also covered in the book Engineering ,1909 *Soviet Journal of Plasma Physics* ,1986

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