$$K = \frac{[N_2O_4]}{[NO_2]^2}$$
$$= \frac{(9.3 \times 10^{-5})}{[NO_2]^2}$$
$$= \frac{(9.3 \times 10^{-5})}{(6.5 \times 10^{-3}\ \text{mol/L})}$$
$$= 220$$
$$= 2.2 \times 10^2$$

45. **(a)** Students should expect it to be a base.

(b) $Ca_{10}(PO_4)_6(OH)_{2(s)} + 8H^+_{(aq)} \rightleftharpoons 6CaHPO_{4(s)} + 2H_2O_{(\ell)} + 4Ca^{2+}_{(aq)}$

(c) Candy contains sucrose, which will remove hydroxyapatite from teeth by reacting with it at low pH to give $Ca^{2+}_{(aq)}$ and $H_2PO_4^-{}_{(aq)}$ that are in soluble form.

46.

	$NH_2-(CH_2)_4-NH_2$	$NH_2-(CH_2)_4-NH_3^+$	OH^-
initial conc.	0.10	0	0
change	−0.0021	+0.0021	+0.0021
equilibrium	0.0979	0.0021	0.0021

$$K_b = \frac{(0.0021)^2}{0.0979} = 4.5 \times 10^{-5}$$

47. The conductivity of 0.1 mol/L HCl is higher than for 0.1 mol/L CH_3COOH because the HCl is completely ionized whereas the CH_3COOH is only partly ionized. For solutions of these two acids at a concentration of 1×10^{-7} mol/L, the HCl is still ionized completely and the CH_3COOH again is only partly ionized. However at such a low concentration the conductivity of the HCl is the same as for water. There will be no discernable difference in the conductivities at this low concentration.

48. One drop of concentrated acid will have a high concentration of H_3O^+ ions. (E.g., For HCl $[H_3O^+]$ = about 12.5 mol/L, for H_2SO_4 $[H_3O^+]$ = about 35 mol/L. When one drop of acid is added to a bucket of water, the H_3O^+ ion concentration is diluted by a very large factor.

49. **(a)** A triprotic acid is an acid that has three protons that may be dissociated, each with its own K_a value.

(b) Stepwise Equation 1:
$H_3PO_{4(aq)} + H_2O_{(\ell)} \rightleftharpoons H_2PO_4^-{}_{(aq)} + H_3O^+_{(aq)}$
Stepwise Equation 2:
$H_2PO_4^-{}_{(aq)} + H_2O_{(\ell)} \rightleftharpoons HPO_4^{2-}{}_{(aq)} + H_3O^+_{(aq)}$
Stepwise Equation 3:
$HPO_4^{2-}{}_{(aq)} + H_2O_{(\ell)} \rightleftharpoons PO_4^{3-}{}_{(aq)} + H_3O^+_{(aq)}$

(c) $H_2PO_4^-{}_{(aq)}$ acts as an acid in equation 2 above. In the equation below, it acts as a base.

$H_2PO_4^-{}_{(aq)} + H_2O_{(\ell)} \rightleftharpoons H_3PO_{4(aq)} + OH^-{}_{(aq)}$

(d) Students may say that $H_3PO_{4(aq)}$ is the stronger acid because it is higher in the list of relative strengths of acids and bases. Some students may suggest that $H_3PO_{4(aq)}$ is a stronger acid because its K_a value is larger than that of $H_2PO_4^-{}_{(aq)}$, which is a "stronger" answer.

50. Water could have a pH greater than 7.0 at a temperature different from 25°C.

51. **(a)** Students might suggest either of these equations:
$NaHCO_{3(aq)} \rightarrow Na^+_{(aq)} + H^+_{(aq)} + CO_3^-{}_{(aq)}$
$NaHCO_{3(aq)} \rightarrow Na^+_{(aq)} + H^+_{(aq)} + CO_3^{2-}{}_{(aq)}$

(b) The litmus test indicates that the solution is basic, so the solution contains a considerable $[OH^-]$. Neither of these equations, written according to the original Arrhenius theory, is consistent with the litmus test. Equation two above even implies a red litmus result! Accordingly, the litmus test contradicts the Arrhenius theory equations.

(c) A student could have two frames of thought.

Perspective I:
$NaHCO_{3(aq)} + H_2O_{(\ell)} \rightarrow Na^+_{(aq)} + H_3O^+_{(aq)} + CO_3^{2-}{}_{(aq)}$
or, without the spectator, Na^+:
$HCO_3^-{}_{(aq)} + H_2O_{(\ell)} \rightarrow H_3O^+_{(aq)} + CO_3^{2-}{}_{(aq)}$

Perspective II
$NaHCO3_{(aq)} + H_2O_{(\ell)} \rightarrow Na^+_{(aq)} + H_2CO_{3(aq)} + OH^-{}_{(aq)}$
or, without the spectator, Na^+:
$HCO_3^-{}_{(aq)} + H_2O_{(\ell)} \rightarrow H_2CO_{3(aq)} + OH^-{}_{(aq)}$

Note that, if a student writes equations according to Perspective I, the student still has a set of equations that contradict the litmus test. But if the student then realizes that the hydrogen carbonate ion is amphoteric, another valid set of equations according to Perspective II may be written. Given the litmus test, the student should then analyze and evaluate the equations to state that Perspective II is not only correct according to modernized Arrhenius, but also consistent with the litmus test. Some students will have realized this out of part (b), and will present only Perspective II.

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Electrochemical Society. High Temperature Materials Division,Electrochemical Society. Dielectric Science and Technology Division

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Applied Chemistry and Chemical Engineering, Volume 4 A. K. Haghi,Lionello Pogliani,Eduardo A. Castro,Devrim Balköse,Omari V. Mukbaniani,Chin Hua Chia,2017-12-22 Applied Chemistry and Chemical Engineering Volume 4 Experimental Techniques and Methodical Developments provides a detailed yet easy to follow treatment of various techniques useful for characterizing the structure and properties of engineering materials This timely volume provides an overview of new methods and presents experimental research in applied chemistry using modern approaches Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications and then goes on to demonstrate the advantage and disadvantages of each physical technique Thus readers will be able to apply the concepts as described in the book to their own experiments The book is broken into several subsections Polymer Chemistry and Technology Computational Approaches Clinical Chemistry and Bioinformatics Special Topics This volume presents research and reviews and information on implementing and sustaining interdisciplinary studies in science technology engineering and mathematics **Chemistry in the Community** American Chemical Society,2006-01-31 This laboratory based text centres itself around decision making activities where students apply their chemistry knowledge to realistic situations This fifth edition includes more photographs new drawings and new design **Fundamental Gas-phase and Surface Chemistry of Vapor-phase Deposition II and Process Control, Diagnostics and Modeling in Semiconductor Manufacturing IV** Electrochemical Society. High Temperature Materials Division,Electrochemical Society. Dielectric Science and Technology Division,2001 *Motor Vehicle-related Air Toxics Study* ,1993 RNA 3D Structure Analysis and Prediction Neocles Leontis,Eric Westhof,2012-06-05 With the dramatic increase in RNA 3D structure determination in recent years we now know that RNA molecules are highly structured Moreover knowledge of RNA 3D structures has proven crucial for understanding in atomic detail how they carry out their biological functions Because of the huge number of potentially important RNA molecules in biology many more than can be studied experimentally we need theoretical approaches for predicting 3D structures on the basis of sequences alone This volume provides a comprehensive overview of current progress in the field by leading practitioners employing a variety of methods to model RNA 3D structures by homology by fragment assembly and by de novo energy and knowledge based approaches **Chemistry in the Community (ChemCom)** American Chemical Society,2011-06-17 Touted as the most successful NSF funded project published Chemistry in the Community ChemCom by the American Chemical Society ACS offers a meaningful and memorable chemistry program for all levels of high school students ChemCom covers traditional chemistry topics within the context of societal issues and real world scenarios Centered on decision making activities where students are responsible for generating data in an investigating analyzing that data and then applying their chemistry knowledge to solve the presented problem The text is intensively laboratory based with all 39 of the investigations integrated within the text not separate from

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theoretical and experimental approach in applied physical chemistry The volume discusses the developments of advanced chemical products and respective tools to characterize and predict the chemical material properties and behavior With chapters from distinguished scientists and engineers from key institutions worldwide the volume provides understanding through numerous examples and practical applications drawn from research and development chemistry It emphasizes the intersection of chemistry math physics and the resulting applications across many disciplines of science and explores applied physical chemistry principles in specific areas At the same time each topic is framed within the context of a broader more interdisciplinary approach demonstrating its relationship and interconnectedness to other areas This new book fills a gap within modeling texts focusing on applications across a broad range of disciplines and presents information on many important problems in physical chemistry These investigations are accompanied by real life applications in practice

Vocational Agriculture News and Notes ,1996 **Official Gazette of the United States Patent and Trademark Office** ,2005 Energy Research Abstracts ,1991 **Cumulated Index Medicus** ,1987 *Catalogue for the Year ...* University of Oregon,1928 **Organized Networks of Carbon Nanotubes** K.R.V. Subramanian,Raji George,Aravinda CL Rao,2020-03-17 In this book meshes and networks formed out of multiwalled carbon nanotubes are investigated and analyzed including their use in niche applications such as electro optic devices advanced mechanical thermal and electrical property enhancement and gene editing Different properties of multi walled carbon nanotubes including random network formation ordering the meshes and networks by mechanical agitation and application of an external field using crystallization and cross linking induced phase separation in homopolymers CNT composites are discussed with theoretical analysis The book is aimed at researchers and graduate students in Electrical Engineering Materials Science and Engineering Chemical Engineering and Nanotechnology Electronic circuit design manufacturing and characterization **Aromaticity and Metal Clusters** Pratim Kumar Chattaraj,2010-10-15 Metal clusters an intermediate state between molecules and the extended solid show peculiar bonding and reactivity patterns Their significance is critical to many areas including air pollution interstellar matter clay minerals photography catalysis quantum dots and virus crystals In Aromaticity and Metal Clusters dozens of international experts explore not only the basic aspects of aromaticity but also the structures properties reactivity stability and other consequences of the aromaticity of a variety of metal clusters Although the concept of aromaticity has been known for nearly two centuries there is no way to measure it experimentally and no theoretical formula to calculate it In order to gain insight into its exact nature the authors of this volume examine various indirect characteristics such as geometrical electronic magnetic thermodynamic and reactivity considerations The book begins by discussing the evolution of aromaticity from benzene to atomic clusters Next more specialized chapters focus on areas of significant interest Topics discussed include Computational studies on molecules with unusual aromaticity Electronic shells and magnetism in small metal clusters A density functional investigation on the structures energetics and properties of sodium clusters through electrostatic

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