

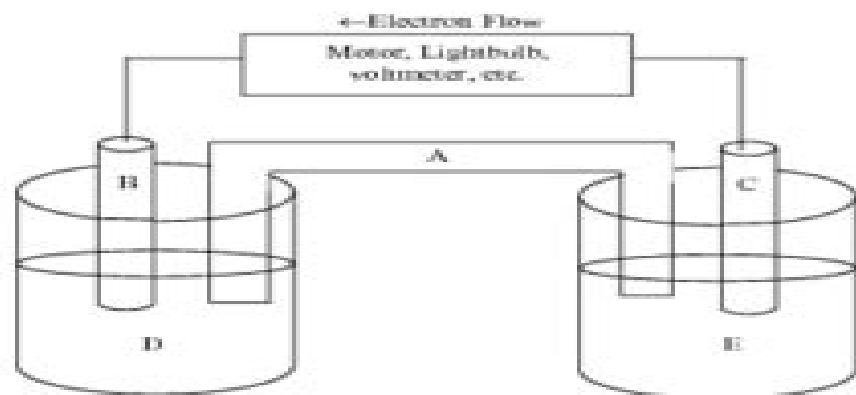
Honors Chemistry

Electrochemistry Problems

Name _____

Date _____ Period _____

The voltaic cell shown above is composed of the metals Nickel (Ni) and Calcium (Ca) and their nitrate salts. Assume both metals are 2^+ in their ionic state. Pay attention to the direction of electron flow. Answer the following questions using the letters indicated above. The same letter may be used more than once.



1. Salt bridge
2. Nickel electrode
3. Calcium nitrate solution
4. Calcium electrode
5. Nickel nitrate solution
6. Anode
7. Cathode
8. Electrode where oxidation occurs
9. Electrode where reduction occurs
10. KNO_3
11. Electrode that gets smaller with time
12. Solution that receives positive ions from the salt bridge
13. If the reduction potentials for Ni and Ca are -0.25V and -2.87V respectively, what is the voltage of the cell?

Write a condensed cell diagram for this reaction.

Write the oxidation half reaction for the cell.

Write the reduction half reaction for the cell.

For the following five questions identify the half reactions as either oxidized or reduced

14. $\text{Fe}^{2+} \rightarrow \text{Fe}^{3+} + 1e^-$
15. $\text{Cu} \rightarrow \text{Cu}^{2+} + 1e^-$
16. $\text{Cl}_2 + 2e^- \rightarrow 2\text{Cl}^-$
17. $\text{Zn} \rightarrow \text{Zn}^{2+} + 2e^-$
18. $2\text{N}^{3-} \rightarrow \text{N}_2 + 6e^-$
19. For the reaction

$$2\text{Mn}^{2+} + 5\text{Cl}_2 \rightarrow 2\text{Mn}^{3+} + 10\text{Cl}^-$$
 which species is the reducing agent? Explain.

High School Electrochemistry Questions

JL Elias



High School Electrochemistry Questions:

Electrochemistry Fundamentals Thomas B. Clarke, Christophe Renault, Jeffrey E. Dick, 2023-07-18 Electrochemistry is at the heart of several vital tools used to make discoveries in chemistry and other science labs today as evidenced by pH sensors and gel electrophoresis cells Many of the devices of tomorrow will rely on knowledge of and discoveries in electrochemistry fuel cells that efficiently convert hydrogen fuel to usable energy the carbon capture and conversion devices that will turn greenhouse gases into valuable products and the photoelectrochemical semiconductor and bioelectrochemical devices yet to come The future will continue to harness and control electrochemical reactions All these past present and future electrochemical contraptions and processes share a common feature an interface where charges are passed i e an electrochemical interface In this digital primer the authors cover many of the essential features of these interfaces that will prime you to begin diving into the exciting current research in this field

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Electrochemical Science for a Sustainable Society Kohei Uosaki, 2017-06-15 This book honors Professor John O M Bockris presenting authoritative reviews on some of the subjects to which he made significant contributions i e electrocatalysis fuel cells electrochemical theory electrochemistry of single crystals in situ techniques rechargeable batteries passivity and solar fuels and revealing the roles of electrochemical science and technology in achieving a sustainable society Electrochemistry has long been an object of study and is now growing in importance not only because of its fundamental scientific interest but also because of the central role it is expected to play in a future sustainable society Professor John O M Bockris contributed greatly to various aspects of fundamental and applied electrochemistry such as the structure of the double layer kinetics and mechanism of the electrochemistry of hydrogen and oxygen electrocatalysis adsorption and electrochemical oxidation of small organic molecules fuel cells electrocrystallization theoretical electrochemistry new methods photoelectrochemistry bioelectrochemistry corrosion and passivity hydrogen in metals ionic solutions and ionic liquids and molten silicates and glasses as well as socio economic issues such as the hydrogen economy for over half a century from 1945 until his retirement in 1997 *Electrochemical Industry* Eugene Franz Roeber, Howard Coon Parmelee, 1904

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studies involve systematic approaches to not only creating but also implementing instructional programs to reduce the incidence of these misconceptions among high school science students These studies however are largely unavailable to classroom practitioners partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them In response this book offers an essential and easily accessible guide

Electrochemistry in a Divided World Fritz Scholz,2015-10-13 In this collection of interrelated essays the authors review landmark developments in electrochemistry building on biographic material and personal insight The book facilitates understanding of the innate pathways of developments in electrochemical science as a result of lucky circumstances fitting to objective conditions Thus the book will help to understand the present state of electrochemistry and offer inspiration for solving today s scientific challenges The authors as experienced electrochemists from the U S Western and Eastern Europe also provide guidance for scientific careers by presenting biographical examples of famous electrochemists *Journal of Chemical Education* ,1928 **The ETS Test Collection Catalog** Educational Testing Service. Test Collection,1993 The major source of information on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments [Examining Pedagogical Content Knowledge](#) Julie Gess-Newsome,Norman G. Lederman,2006-04-11 Since its emergence over two decades ago the construct of pedagogical content knowledge PCK has significantly impacted preservice and inservice teacher education educational policy and educational research PCK has served to re focus educators attention on the important role of subject matter in educational practice and away from the more generic approach to teacher education that dominated the field prior to 1975 This ambitious text is the first of its kind to summarize the theory research and practice related to pedagogical content knowledge The audience is provided with a functional understanding of the basic tenets of the construct as well as its applications to research on science teacher education and the development of science teacher education programs The authors are prominent educators representing a variety of subject matter areas and K 12 grade levels Although the focus of the text is science education it should provide valuable reading for any individuals with interests in professional teacher education

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web 1 system consists of pump skid and control box control box on deluxe systems only 2 check that the motor is securely fastened to the skid 3 connect sprinkler piping to customer connection on pump skid 4 connect pump suction connection to water source 5 wire control power to pump skid 6 ensure correct voltage is applied

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web oct 10 2018 the feeder conductors to the fire pump and associated equipment are required to have an ampacity not less than 125 percent of the full load current flc rating of the fire pump motor s and pressure maintenance pump motor s plus 100 percent of associated accessory equipment

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web above in all three auto positions the pumps shall be stopped by hand only as it will be common practice to run the diesel and electrical fire pump at least once a week for a couple of minutes and to prevent any damage to the pumps a return pipe to the reservoir sized for approximately 35 of the pump s duty point flow is to be

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pipng and higher pressure and flow rates in systems incorrectly sized or selected pumps can result in not enough pressure or flow being created which can cause several problems

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web the electrical wiring between the fire pump controller and the pump motor shall be in rigid intermediate or liquid tight flexible metal conduit or type mi cable and meet the requirements of local codes

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