

## Ce4501 Environmental Engineering Chemical Processes Fall

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### **Ce4501 Environmental Engineering Chemical Processes**

CE4501 Environmental Engineering Chemical Processes Problem Set 5 - SOLUTION Fall 2008 Due: Monday, 11/10 by 5 p.m. 1. Problem 16.1 in the text (p. 379) A. Chlorine exists in seven oxidation states. Determine the oxidation state of each compound and order them from the most negative oxidation state to the most positive oxidation state.

### **CE4501 Environmental Engineering Chemical Processes ...**

CE4501 Environmental Engineering Chemical Processes Problem Set 4 - SOLUTION Fall 2008 1. Problem 15.3 in the text (p. 334). Using the formation constants in section 15.5.2, find the

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concentrations of the hydroxo complexes of Cu (including the dimer) in a water at pH 6.0 with total soluble copper equal to  $1.0 \times 10^{-6}$  M SOLUTION:

### **CE4501 Environmental Engineering Chemical Processes ...**

CE4501 Environmental Engineering Chemical Processes Laboratory Manual Fall 2008 Instructors: N.R. Urban Graduate Teaching Assistant: Brandon Ellefson Dept. Civil & Environmental Engineering Michigan Technological University Prepared by: J.A.Perlinger, N.R. Urban

### **CE4501 Environmental Engineering Chemical Processes ...**

CE4501 Environmental Engineering Chemical Processes Problem Set 1 - SOLUTIONS Fall 2008 1 . Problem 2.7 in the text (p. 31) Calculate the molarity and normality of the following solutions: a) 20 g/L NaOH MW =  $1 \times 23 + 1 \times 16 + 1 \times 1 = 40$  20 0.5 40 g mole mole Molarity Lg L =  $\frac{20}{40} = 0.5$  1 0.5 0.5 mole eq eq Normality N Lmole L =  $\frac{20}{40} = 0.5$  b) 25 g/L H<sub>2</sub>SO<sub>4</sub>

### **CE4501 Environmental Engineering Chemical Processes ...**

CE4501 Environmental Engineering Chemical Processes, Fall 2008 Problem Set 7 SOLUTIONS 1. The accident at the nuclear power plant in Chernobyl released a number of radioisotopes to the environment. All of these isotopes ultimately ended up in soils and sediments. Two of the

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CE4501 Environmental Engineering Chemical Processes, Fall 2008 Problem Set 6 Due: Friday, 11/21

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CE4501 Environmental Engineering Chemical Processes, Fall 2008 Problem Set 6 Due: Friday, 11/21 by 5 p.m. Solutions will be posted on the Web. Problem sets will be graded for completeness, and one problem (selected at random) will be graded in detail. Each problem set contributes 2.5% towards your final grade.

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CE4501 Environmental Engineering Chemical Processes Problem Set 4 Fall 2008 Due: Monday, 10/27 by 5 p.m. Solutions will be posted on the Web. Problem sets will be graded for completeness, and one problem (selected at random) will be graded in detail. Each problem set contributes 2.5% towards your final grade. 1. Problem 15.3 in the text (p. 334). 2.

### **CE4501 Environmental Engineering Chemical Processes ...**

CE4501 Environmental Engineering Chemical Processes Problem Set 3 - SOLUTION Fall 2008 Due: Monday, 10/13 by 5 p.m. DO 10 OF THE 12 PROBLEMS. Solutions will be posted on the Web. Problem sets will be graded for completeness, and one problem (selected at random) will be graded in detail. Each problem set contributes 2.5% towards your final grade. 1.

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### **enve4501 ProbSet1\_08\_Solution - CE4501 Environmental ...**

CE4501 Environmental Engineering Chemical Processes Problem Set 4 - SOLUTION Fall 2008 1. Problem 15.3 in the text (p. 334). Using the formation constants in section 15.5.2, find the concentrations of the hydroxo complexes of Cu (including the dimer) in a water at pH 6.0 with total soluble copper equal to  $1.0 \times 10^{-6}$  M SOLUTION: We are asked to find the concentrations of  $\text{CuOH}^+$ ,  $\text{Cu(OH)}_2$ ,  $\text{Cu(OH)}_3^-$ ,  $\text{Cu(OH)}_4^{2-}$  and  $\text{Cu}_2(\text{OH})_2^{2+}$ .

### **ENVE4501 ProbSet4\_08\_solution - CE4501 Environmental ...**

CE4501 Environmental Engineering Chemical Processes, Fall 2008 Problem Set 7 SOLUTIONS 1. The accident at the nuclear power plant in Chernobyl released a number of radioisotopes to the environment. All of these isotopes ultimately ended up in soils and sediments. Two of the isotopes released were  $^{134}\text{Cs}$  and  $^{129}\text{I}$ .

### **ENVE4501 ProbSet7\_08\_Solution - CE4501 Environmental ...**

CE4501 Environmental Engineering Chemical Processes Problem Set 2 - SOLUTIONS Fall 2008 Due: Friday, 10/3 by 5 p.m. Solutions will be posted on the Web. Problem sets will be graded for completeness, and one problem (selected at random) will be graded in detail.

## **Solutions - Civil & Environmental Engineering**

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CE4501 Environmental Engineering Chemical Processes . BL3310 Environmental Microbiology, BL3400 Principles of Ecology, or BL5451 Aquatic Ecology . CE5501 Environmental Process Engineering . Consequently, it is recommended that all candidates for the examination either take these courses or have equivalent knowledge from previous study.

### **GOVERNANCE OF NON-DEPARTMENTAL PH.D. PROGRAMS IN ...**

1 Fall 2008 CE4501. Environmental Chemical Processes Laboratory The laboratory section of this course has specific objectives that are distinct from the

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