

**NOTE:** for this problem set, unless stated otherwise, all standard cell potentials and other standard thermodynamic values are assumed to be reported at 298 K.

1. Consider the demonstration where a piece of copper wire is being immersed in a solution of  $\text{AgNO}_3$ .

- a) What is the sign of  $\Delta G^\circ$  for the demonstration you are observing? Explain.

**Negative. Reaction is spontaneous.**

- b) Write out a balanced overall reaction for the demonstration, including all phases and stoichiometric coefficients:



- c) In your engineering reference manual you find the following half-reactions:



Determine the standard cell potential associated ( $E^\circ_{\text{cell}}$ ) associated with this reaction.

$$E^\circ_{\text{cell}} = E^\circ_{\text{red}} - E^\circ_{\text{ox}} = 0.80 - 0.34 = 0.46 \text{ V}$$

- d) Calculate the value of  $\Delta G^\circ$  and  $K$  for the demonstration reaction at 298 K.

$$\begin{aligned} \Delta G^\circ &= -n F E^\circ_{\text{cell}} = -2 \times 96485 \text{ C mol}^{-1} \times 0.460 \text{ V} = -88766 \text{ J} \\ &= -89 \text{ kJ} \end{aligned}$$

$$\begin{aligned} \ln K &= -\frac{\Delta G^\circ}{RT} = \frac{88766 \text{ J}}{1 \text{ mol} \times 8.3145 \text{ J mol}^{-1} \text{K}^{-1} \times 298 \text{ K}} = 35.83 \\ K &= e^{35.83} = 3.62 \times 10^{15} \end{aligned}$$

- e) Use your knowledge of thermodynamics to predict what would happen if we were to carry out the opposite experiment – a piece of silver in  $\text{Cu}(\text{NO}_3)_2$ .

**Because dipping Cu in  $\text{AgNO}_3$  was a spontaneous process, that means the opposite process should be non-spontaneous.**

**Note: both this answer and that for part a) make a subtle assumption. Can you see what it is?**

# Modeling Chemistry Unit 11 Answer Key

**Ian Pickup**



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modifications however these approaches are less affordably viable in economically challenged communities and in rural areas Therefore the use of nano fertilizers to combat this problem holds the greatest potential Additionally nanotechnology can be used to meet other challenges in agriculture including enhancing crop yield protection from insect pests and animals and by use of nano pesticides and nano biosensors to carry out the remediation of polluted soils The future use of nanomaterials in soil ecosystems will be influenced by their capability to interact with soil constituents and the route of nanoparticles into the environment includes both natural and anthropogenic sources The last decade has provided increasing research on the impact and use of nanoparticles in plants animals microbes and soils and yet these studies often lacked data involving the impact of nanoparticles on biotic and abiotic stress factors This book provides significant recent research on the use of nano fertilizers which can have a major impact on components of an ecosystem This work should provide a basis to further study these potential key areas in order to achieve sustainable and safe application of nanoparticles in agriculture Scientific and Technical Aerospace Reports ,1993 *Physical Science* Carson-Dellosa Publishing,2015-03-09 Physical Science for grades 5 to 12 is designed to aid in the review and practice of physical science topics Physical Science covers topics such as scientific measurement force and energy matter atoms and elements magnetism and electricity The book includes realistic diagrams and engaging activities to support practice in all areas of physical science The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series is aligned to current science standards Water-resources Investigations Report ,1976

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