

## 16 • Chemical Equilibrium

1. Consider the reaction system,



The equilibrium constant expression is

- a)  $\frac{[\text{CoO}][\text{H}_2]}{[\text{Co}][\text{H}_2\text{O}]}$       d)  $\frac{[\text{H}_2]}{[\text{H}_2\text{O}]}$   
 b)  $\frac{[\text{Co}][\text{H}_2\text{O}]}{[\text{CoO}][\text{H}_2]}$       e)  $\frac{[\text{H}_2\text{O}]}{[\text{H}_2]}$   
 c)  $\frac{[\text{Co}][\text{H}_2\text{O}]}{[\text{H}_2]}$

2. Given the equilibrium,

if this equilibrium is established by beginning with equal number of moles of  $\text{SO}_2$  and  $\text{O}_2$  in a 1.0 Liter bulb, thenthe following *must* be true at equilibrium:

- a)  $[\text{SO}_2] = [\text{SO}_3]$       d)  $[\text{SO}_2] < [\text{O}_2]$   
 b)  $2[\text{SO}_2] = 2[\text{SO}_3]$       e)  $[\text{SO}_2] > [\text{O}_2]$   
 c)  $[\text{SO}_2] = [\text{O}_2]$

Questions 3 &amp; 4 refer to the following:

At a given temperature, 0.300 mole  $\text{NO}$ , 0.200 mol  $\text{Cl}_2$  and 0.500 mol  $\text{ClNO}$  were placed in a 25.0 Liter container. The following equilibrium is established:  $2\text{ClNO(g)} \rightleftharpoons 2\text{NO(g)} + \text{Cl}_2\text{(g)}$

3. At equilibrium, 0.600 mol of
- $\text{ClNO}$
- was present. The number of
- moles*
- of
- $\text{Cl}_2$
- present at equilibrium is

- a) 0.050      d) 0.200  
 b) 0.100      e) 0.250  
 c) 0.150

## P R A C T I C E T E S T

4. The equilibrium constant,
- $K_c$
- , is:

- a)  $4.45 \times 10^{-4}$       d) 0.167  
 b)  $6.67 \times 10^{-4}$       e) 1500  
 c) 0.111

5. At
- $985^\circ\text{C}$
- , the equilibrium constant for the reaction,



is 1.63. What is the equilibrium constant for the reverse reaction?

- a) 1.63      d) 0.613  
 b) 0.815      e) 1.00  
 c) 2.66

6. What is the relationship between
- $K_p$
- and
- $K_c$
- for the reaction,
- $2\text{HCl(g)} \rightleftharpoons \text{H}_2\text{(g)} + \text{Cl}_2\text{(g)}$
- ?

- a)  $K_p = K_c(RT)^{-1}$       d)  $K_p = K_c$   
 b)  $K_p = K_c(RT)$       e)  $K_p = K_c(2RT)$   
 c)  $K_p = K_c(RT)^2$

7. For the reaction
- $2\text{NO}_2\text{(g)} \rightleftharpoons \text{N}_2\text{O}_4\text{(g)}$
- ,
- $K_p$
- at
- $25^\circ\text{C}$
- is 7.3, when all partial pressures are expressed in atmospheres. What is
- $K_c$
- for this reaction? [
- $R=0.0821 \text{ L}\cdot\text{atm}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
- ]

- a) 4270      d) 179  
 b) 0.0119      e) 2.06  
 c) 0.291

# Chemical Equilibrium Test

**Frank Brescia**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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*SAT Subject Test Chemistry* Joseph A. Mascetta, Mark Kernion, 2020-12-01 Note  
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sep 25 2020 table of contents no headers for the following maximization problems choose your variables write the objective

function and the constraints graph the constraints shade the feasibility region label all critical points and determine the

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to solve a linear programming problem we first need to know the fundamental theorem of linear programming given that an

optimal solution to a linear programming problem exists it must occur at a vertex of the feasible set if the optimal solution

occurs at two adjacent vertices of the feasible set then the linear programming problem

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the lp relaxation of a subproblem

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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize  $\mathbf{d}^T \mathbf{x}$  subject to  $\mathbf{u}^L \leq \mathbf{u} \leq \mathbf{u}^U$   $\mathbf{x}(0) = \mathbf{x}_0$   $\mathbf{x}(T) = \mathbf{x}_T$  where  $\mathbf{x}$  and  $\mathbf{u}$  are related via the recursion  $\mathbf{x}(t+1) = \mathbf{A} \mathbf{x}(t) + \mathbf{B} \mathbf{u}(t)$

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2018 2019 exercise 3 determine using the simplex algorithm with bland's rule the optimal solution to the following linear programming problem  $\max \mathbf{s}^T \mathbf{x}$   $\mathbf{x}_1 \geq 3$   $\mathbf{x}_2 \geq 5$   $\mathbf{x}_3 \geq 2$   $\mathbf{x}_4 \geq 1$   $2\mathbf{x}_1 + 3\mathbf{x}_2 + 4\mathbf{x}_3 + 3\mathbf{x}_4 \leq 12$   $\mathbf{x}_1 + \mathbf{x}_2 + \mathbf{x}_3 + \mathbf{x}_4 \leq 2$  solution the problem in standard form is the initial tableau is  $\min \mathbf{s}^T \mathbf{s}$   $\mathbf{s}_1 \geq 0$   $\mathbf{s}_2 \geq 0$

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recognize the typical form of a linear programming problem formulate maximization linear programming problems graph feasible regions for maximization linear programming problems determine optimal solutions for maximization linear programming problems

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nov 5 1998 as a linear program a computer program can be used to solve the problem in this regard solving a linear program is relatively easy the hardest part about applying linear programming is formulating the problem and interpreting the solution linear equations all of the equations and inequalities in a linear program must by definition be

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jul 18 2022 solve the following linear programming problems using the simplex method 1 begin array ll text maximize  $\mathbf{z}$   $\mathbf{x}_1 + 2\mathbf{x}_2 + 3\mathbf{x}_3$  text subject to  $\mathbf{x}_1 + \mathbf{x}_2 + \mathbf{x}_3 \leq 12$   $2\mathbf{x}_1 + \mathbf{x}_2 \leq 18$   $\mathbf{x}_1, \mathbf{x}_2, \mathbf{x}_3 \geq 0$

$x^2 + 3x \leq 18$

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