

CHAPTER 17 EQUILIBRIUM: THE EXTENT OF CHEMICAL REACTIONS

FOLLOW-UP PROBLEMS

17.1A **Plan:** First, balance the equations and then write the reaction quotient. Products appear in the numerator of the reaction quotient and reactants appear in the denominator; coefficients in the balanced reaction become exponents.

Solution:



$$\text{Reaction quotient: } Q_c = \frac{[\text{NO}]^4 [\text{H}_2\text{O}]^6}{[\text{NH}_3]^4 [\text{O}_2]^5}$$



$$\text{Reaction quotient: } Q_c = \frac{[\text{NH}_3]^2}{[\text{NO}_2]^2 [\text{H}_2]^7}$$



$$\text{Reaction quotient: } Q_c = [\text{O}_2]^3$$

17.1B **Plan:** First, balance the equations and then write the reaction quotient. Products appear in the numerator of the reaction quotient and reactants appear in the denominator; coefficients in the balanced reaction become exponents.

Solution:



$$\text{Reaction quotient: } Q_c = \frac{[\text{CO}]^2 [\text{H}_2]^2}{[\text{CH}_4] [\text{CO}_2]}$$



$$\text{Reaction quotient: } Q_c = \frac{[\text{H}_2\text{O}]^2}{[\text{H}_2\text{S}]^2 [\text{SO}_2]}$$



$$\text{Reaction quotient: } Q_c = \frac{[\text{NaCN}]}{[\text{HCN}] [\text{NaOH}]}$$

17.2A **Plan:** Add the individual steps to find the overall equation, canceling substances that appear on both sides of the equation. Write the reaction quotient for each step and the overall equation. Multiply the reaction quotients for each step and cancel terms to obtain the overall reaction quotient.

Solution:



Canceling the reactants leaves the overall equation as $\text{Br}_2(g) + \text{H}_2(g) \rightleftharpoons 2\text{HBr}(g)$.

Write the reaction quotients for each step:

$$Q_{c1} = \frac{[\text{Br}]^2}{[\text{Br}_2]} \quad Q_{c2} = \frac{[\text{HBr}][\text{H}]}{[\text{Br}][\text{H}_2]} \quad Q_{c3} = \frac{[\text{HBr}]}{[\text{H}][\text{Br}]}$$

and for the overall equation:

$$Q_c = \frac{[\text{HBr}]^2}{[\text{H}_2][\text{Br}_2]}$$

Chemical Equilibrium Solution Manual

Chih Tang Sah



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Fundamentals Of Solid-state Electronics: Solution Manual Chih Tang Sah, 1996-09-30 This Solution Manual a companion volume of the book Fundamentals of Solid State Electronics provides the solutions to selected problems listed in the book Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state of the art transistor reliability problems which have been taught to advanced undergraduate and graduate students This book is also available as a set with Fundamentals of Solid State Electronics and Fundamentals of Solid State Electronics Study Guide *Exercises Solution Manual for MATLAB Applications in Chemical Engineering* Chyi-Tsong Chen, 2022-06-30 This self study solution manual in accompany with the book MATLAB Applications in Chemical Engineering is designed to provide readers with the key points of solving exercise problems at the end of each chapter which therefore instructively guides readers to familiarize themselves with the related MATLAB commands and programming methods for various types of problems Additionally through the assistance of this solution manual the readers would profoundly strengthen the logical abilities problem solving skills and deepen the applications of MATLAB programming language to solve analysis design simulation and optimization problems arose in related fields of chemical engineering The preparation of this manual is not for directly providing solutions but through key guidance overview and analysis and instructional solution steps to gradually cultivate readers problem solving skills

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