#### Chemical Equilibrium

#### The Equilibrium Condition

- The majority of chemical reactions are reversible.
- Equilibrium is the state where the rate of the forward reaction is equal to the rate
  of the reverse reaction and results in no net observable change. At equilibrium,
  concentrations of all reactants and products remain constant at constant
  temperature.
- · Equilibrium is dynamic.

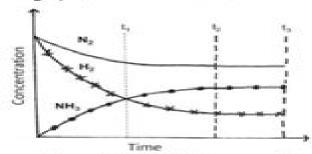
or -- indicates that the reaction is proceeding forward and in reverse.

- Once equilibrium is established, the rate of each direction is equal.
- This keeps the concentration of reactants constant
- This keeps the concentration of products constant
- This does NOT mean that concentration of products and concentration of reactants are the same or equal to each other.
- Any chemical reactions carried out in a closed vessel will reach equilibrium.
- Concept Check

$$3H_2(g) + 2N_2(g) \leftrightarrow 2NH_3(g)$$

H<sub>2</sub> gas and N<sub>2</sub> gas were placed in a rigid vessel and allowed to reach equilibrium in the presence of a catalyst according to the equation above. The diagram below shows how the concentrations of H<sub>2</sub>, N<sub>2</sub>, and NH<sub>3</sub> in this system changed over time. Based on the graph, which of these claims is most likely correct?





- a) The reaction reached equilibrium at t<sub>1</sub>, because the concentrations of H<sub>2</sub> and NH<sub>3</sub> were the same.
- b) The reaction reached equilibrium at t<sub>2</sub>, because the concentrations of N<sub>2</sub>, H<sub>2</sub>, and NH<sub>3</sub> stopped changing.
- c) The reaction reached equilibrium at t<sub>3</sub>, because the reaction stopped proceeding.
- d) The reaction did not reach equilibrium, because not all of the N<sub>2</sub> and H<sub>2</sub> was consumed at time t<sub>3</sub>.

# **Unit 4 Chemical Equilibrium Worksheet**

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#### **Unit 4 Chemical Equilibrium Worksheet:**

Chemical Engineering Design Ray Sinnott, Gavin Towler, 2019-05-26 Chemical Engineering Design SI Edition is one of the best known and most widely used textbooks available for students of chemical engineering The enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance and clarity This new edition provides coverage of the latest aspects of process design operations safety loss prevention equipment selection and much more including updates on plant and equipment costs regulations and technical standards Includes new content covering food pharmaceutical and biological processes and the unit operations commonly used Features expanded coverage on the design of reactors Provides updates on plant and equipment costs regulations and technical standards Integrates coverage with Honeywell's UniSim software for process design and simulation Includes online access to Engineering's Cleopatra cost estimating software Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Juma Haydary, 2019-01-23 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software A comprehensive and practical resource the text uses both Aspen Plus and Aspen Hysys simulation software The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors separators and heat exchangers The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used In addition to aid in comprehension solutions to examples of real problems are included The final section covers plant design and simulation of processes using nonconventional components This important resource Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of chemical process and design with real world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids oil blends polymers and electrolytes Presents examples that are solved using a new version of Aspen software ASPEN One 9 Written for students and academics in the field of process design Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software Chemical Engineering Design Gavin Towler, R K Sinnott, 2012-01-13 Bottom line For a holistic view of chemical engineering design this book provides as much if not more than any other book available on the topic Extract from Chemical Engineering Resources review Chemical Engineering Design is a complete course text for students of chemical engineering Written for the Senior Design Course and also suitable for introduction to chemical engineering

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