Assignment 3

Dec 2014-06-22, 23:00/07:

Unit 5 - Week 3

Course Code: NSC 101
Course Title: Introductory Chemical Engineering

Module 1: Assignment 4

Week 1:
- What is the empirical formula of ammonia? 2 points
  a. N₂H₃
  b. NH₃

Week 2:
- What is the ideal gas law? 2 points
  a. PV = nRT
  b. PV = nRT

Week 3:
- What is the reaction stoichiometry of the reaction: 2A + B → C? 2 points
  a. A₂, B, C
  b. A₂, B, C

Week 4:
- Which of the following properties is a physical property? 4 points
  a. Boiling point
  b. Chemical equilibrium

Solutions

**Week 1**

What is the empirical formula of ammonia? 2 points

- **Answer:** b. NH₃

**Week 2**

What is the ideal gas law? 2 points

- **Answer:** a. PV = nRT

**Week 3**

What is the reaction stoichiometry of the reaction: 2A + B → C? 2 points

- **Answer:** a. A₂, B, C

**Week 4**

Which of the following is not a physical property? 4 points

- **Answer:** b. Chemical equilibrium

**Additional Points**

- If a student correctly identifies additional points, they can earn bonus points for the assignment.

**Notes**

- Students are encouraged to review the course materials and consult relevant textbooks for additional practice.

- The assignment is due by the specified date and time.

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**Assignment Instructions**

- Students must submit their solutions and answers by the deadline.

- Late submissions will not be accepted.

- Collaboration is encouraged, but each student must submit their own work.

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**Course Information**

- Course Code: NSC 101
- Course Title: Introductory Chemical Engineering
- Instructor: Dr. Jane Smith
- Class Schedule: Monday, Wednesday, Friday, 3:00 PM - 4:30 PM

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**Course Materials**

- Lecture Notes
- Textbooks:
  - Introduction to Chemical Engineering, 5th Edition
  - General Chemistry, 6th Edition

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**Contact Information**

- Instructor: Dr. Jane Smith
- Office: Science Hall, Room 202
- Email: jsmith@college.edu
- Phone: (555) 123-4567

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**Course Policies**

- Late submissions will not be accepted.
- Collaboration is encouraged, but each student must submit their own work.
- Grading Criteria:
  - Participation: 20%
  - Homework Assignments: 30%
  - Midterm Exam: 25%
  - Final Exam: 25%