

A First Course on Kinetics and Reaction Engineering

Unit 37. Lesson Plan

Before Class

- Provide the redacted slides to the students
- Tell the students to print the worksheet for Activity 37.1 and bring it to class
- Tell the students to print the equations from Unit 17 or, preferably, the AFCoKaRE Exam Handout and bring it to class

During Class

- Introduce today's topic and where it fits in the course
 - Slides 1 and 2
- Review of Unit 37 (5 minutes)
 - Slide 3
- Answer any questions, slide 4
- Learning Activity 37.1 (~40 minutes)
 - Slides 5 - Read through the problem statement; have the class work on the problem individually, in groups, etc.
 - Slides 6 through 19 - Read the question/task, give them time to think about it and ask questions, call on students until the correct answer is given, then go to the next slide
 - ▶ On slide 18, point out that the gas phase molar flow of CO₂ was used in the ideal gas law because the partial pressure of CO₂ is needed.
- Summary
 - Slide 20: Put the material covered in this class into the overall context of the course.

After Class

- Make the complete slides available to the students.