

2상유동 열전달 공학

Two-phase flow and heat transfer Engineering

2022년 1학기

서울대학교 원자핵공학과 조형규

Course Syllabus

Objectives of Course

✓ To introduce basic theories and physical models on the multi-phase flow for the understanding and analysis of multi-phase flow system.

Grading

- \checkmark Homework(40% + a)
- ✓ Mid-term examination (30%)
- ✓ Final exam (30%)

Textbooks

✓ A.Mostafa Ghiaasiaan, Two-phase Flow, Boiling, and Condensation, Cambridge University Press (2017).

Contents of Lecture

- Introduction of Two-phase Flow and Its Basic Parameters
- Two-phase Flow Regimes
- Two-phase Flow Model
- Two-phase Flow Pressure Drop
- Bubble Dynamics
- Pool Boiling
- Flow Boiling
- Condensation
- Measurement Methods for Two-phase Flow Parameters