Description

This course deals with applications of transport phenomena beyond those that are covered in basic courses.

Tentative Program

Part 1 – Introduction to Rheology

1.1 Introduction

1.2 Non-Newtonian Viscous Flows

1.3 Viscoelasticity

Part 2 – Modeling of Transport Processes

2.1 Applications involving chemical reactor analysis, including processes in which transport phenomena is important.

2.2 Simulation of membrane transport.

Textbook

Class Notes and reference materials, to be posted on the course web site.

Course Evaluation

The course evaluation will consist of regular homework assignments.