1. Oxygen Uptake Rate and \( k_L a \).

   Problem 10.1.

2. Aeration of an \( E. coli \) Culture.

   Problem 10.2

3. Heat Transfer Design for a 100,000 L Bioreactor

   Problem 10.3.

4. Batch Sterilization Kinetics

   Problem 10.9.

Due Fri. 21 Oct., 2005