Lesson 17

EVE 405 Lesson 17: Oxygen Transfer

Instructional Objectives

1. Develop the mass transfer equation for transferring oxygen into wastewater or water.
2. Determine the overall oxygen transfer coefficient ($K_La$); given dissolved oxygen (DO) data versus time.
3. Discuss and apply the terms alpha ($\alpha$), beta ($\beta$) and theta ($\theta$) to the design of aeration systems for treating wastewater.

Study Assignment

1. Read pages 498-509 of the course text.

Homework

1. Work problem 16.4, 16.5, and 16.19
2. Work on Technical Memorandum No.3: Secondary Treatment due March 27, 2008