**Homework 01**

**Problem 13.2-1**

Given:

C1 = 2.0e-2 kg mol A/m­3 K’ = 0.75

C2 = 0.3e-2 kg mol A/m3 DAB = 3.5e-11 m2/s

Kc1 = 3.5e-5 m/s k­c2 = 2.1e-5 m/s

L = 1.59e-5 m

Find:

R­1, R2, Rm, Rtot, R%1, R%2, Membrane Area

Solution:

a.)

b.)