

Name:

Homework for Lecture 5

Consider a binary solution of A and B with the concentration of $X_A=0.1$. Assuming the Henry activity coefficient (γ_A) of A in this binary solution is given by

$$\ln\gamma_A = 2X_A X_B^2$$

Determine the ratio of the chemical diffusion coefficient of A to the tracer diffusion coefficient of A in the solution.