Name:

Homework for Lecture 6, 5

Consider a binary solution of A and B with the concentration of X_A =0.2. The free energy of this binary solution is given by $G = G^0 + RT(X_A X_B)$. Suppose the trace diffusion coefficient of A is twice that of B, i.e., D_A =2 D_B ,

Then, what is the interdiffusion coefficient, \tilde{D} ? (Express your answer in term of D_B)