C1 = 1.5 × 10^(-3)×4=6×10^(-3) kgmol/m^3

C2 = 1.5 ×10^(-3) ×1=1.5×10^(-3) kgmol/m^3

Considering plane wall condition

R = L/DA=0.0005/(8.7×10^(-8)×1)

Mole flux =(6×10^(-3)-1.5×10^(-3))/0.0005/(8.7×10^(-8)×1)

= 7.83×10^(-7) kg mol/m^2 s

Mass Flux = 2 ×7.83 × 10^(-7) kg/m^2 s = 1.566 ×10^(-6 ) Kg/m^2 s