

International Master's Programs of Chemical Engineering in the Graduate School of Engineering,
Kyushu University (Academic Year from October, 2026)

Subject: Chemical Engineering II: Mass transfer (1 sheet)

1.

(1.1) 3333

(1.2) 1.5

(1.3) 23.1

(1.4) 0.00462 m/s

2.

(2.1)

X1: 0.

X2: $\frac{cD_{AB}}{\delta} (x_0 - x_\delta)$.

X3: $\frac{cD_{AB}}{\delta}$.

(2.2)

X4: N_A .

X5: $\frac{cD_{AB}}{\delta} \ln [(1 - x_\delta) / (1 - x_0)]$.

X6: $\frac{cD_{AB}}{\delta} \frac{\ln [(1-x_\delta)/(1-x_0)]}{x_0-x_\delta}$.