

















Recap:	Introduction to Diffusion and Mass Transfer in Mixtures	QUICK START
Recurring Modeling Assumptions in Diffusion		
	a liquid-gas interface, the region in the gas near the liquid is where diffusion takes place	
	apor near the liquid-gas interface is often saturated (Raoult's $a_4 = p_A^*/p$)	
If com	ponent A has no sink, $\underline{N}_A = 0$.	
• If A dif	ffuses through stagnant <i>B</i> , $N_B = 0$.	
rapid,	example, two moles of A diffuse to a surface at which a irreversible reaction coverts it to one mole of B, then at y state $-0.5\underline{N}_A = \underline{N}_B$.	
Becau assum	ise diffusion is slow, we can make a quasi-steady-state nption	
	geneous reactions appear in the mass balance; geneous reactions appear in the boundary conditions	
	hary mixture of A and B are undergoing steady equimolar er diffusion, $\underline{N}_A = -\underline{N}_B$. (coming)	
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