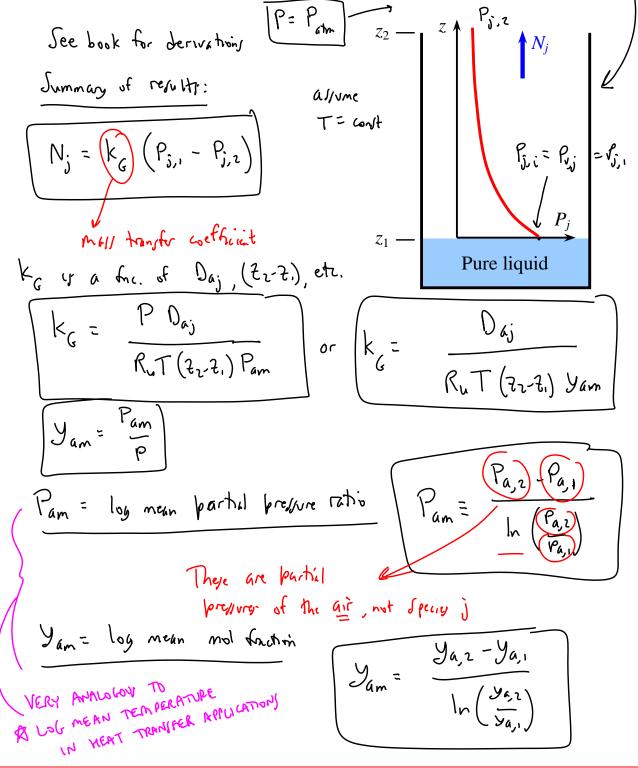
ME 405 Fall 2006 Professor John M. Cimbala Lecture 15 10/11/2006

Today, we will:

- Continue our discussion about evaporation of pure liquids in stagnant air in Section 4.5.4
- Do some example problems evaporation of pure liquids in stagnant air
- Discuss evaporation of pure liquids with blowing air in Section 4.5.4
- Do some example problems evaporation of pure liquids with blowing air
- Discuss evaporation of multi-component liquids in Section 4.5.6 and 4.5.7



The emission rate or source strength S' or evaporation rate
is is Surface area of evaporation
$$\dot{M}_{j} = N_{j} A M_{j}$$

 $krol are ks = kg / m^{2} s ks = kg / m^{2} s ks = kg / s$

$$R_{i} \text{ thus, it all to setting}$$

$$(\dot{m}_{j} = \frac{P O_{aj} (P_{j,1} - P_{j,2}) A M_{j}}{R_{i} T (z_{2}, z_{i}) P_{am}}$$

& Evaporation rate of a pure liquid into stagnant air

