POD 26: Lecture 15-21 Summary lecture 15 Radiative Heat Transport - Kirchoff's Law (a = e) p. 214-229 - Ste fan - Boltzmann Law - transport between parallel planes - combination of radiation & convolt transf - spectral effects/rad shields Lec. 16 Fich's Caw & Cons. Egins p230-241 - Where mass dif. comes from - stokes-Einstein 2: + Brownian motion - mass & molar basis: convection from diffusion Lea. 17 Stefan Tube p. 2012-252 - How to calc. mass flux for non-Dolute CA - parallel between heat & masstransp (if lilute they're the same!) Lec. 18 Mass Transf vo/ Rxn: Thiele Modulus p. 253-263 - Equimolar counter Diffusion - Thiele modulus: measure of dif. Mass transf. limitations - effectiveness factor for cat. pellets



Lec. 19 D. f. w/ homog. rxn in Liquids
p. 264-277 - first order homogeneous vxn (gen. sol.)
- Hatta number (dim vxn rate)
- application of model to parameter
extraction from expts

Lec. 20 Conv. Def in to falling film

p. 278-292 - Mass transfer into falling film

- SS conv. Diff

- mass transfer coef. from BL analysis

- pavallel between ht kmass trans. coef.

hecturell Gas-Liquid Stripping p. 293-306-How to size a stripper - Overall mass transf. coef - walte through of Kla Calc.