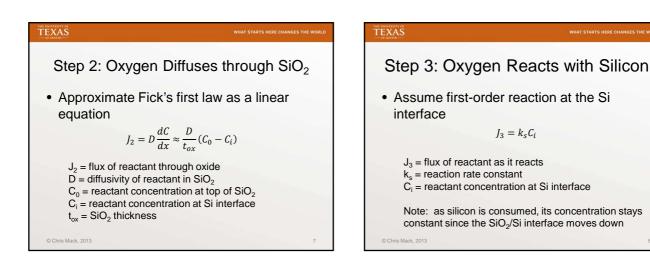
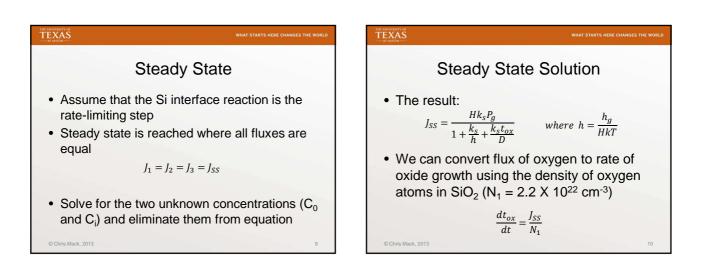


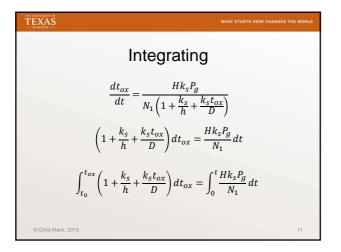
 $\delta$  = boundary layer thickness

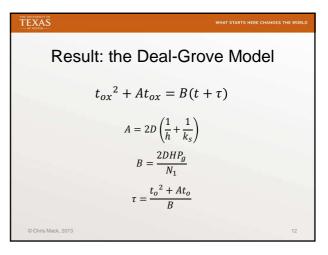
 $h_g = D_g / \delta$  = mass transfer coefficient

- Henry's Law Concentration adsorbed on the surface is proportional to its partial pressure in gas  $C_0 = HP_s = HC_s kT$ H = Henry's gas law constant
  - C<sub>0</sub> = reactant concentration adsorbed on the surface
  - C<sub>s</sub> = gas reactant concentration at surface
  - k = Boltzmann's constant T = absolute temperature









## What are the three sequential steps in the Deal-Grove mechanism? What are the limitations of the Deal-Grove model? Explain the steady-state assumption used in the derivation Be familiar with the derivation of the Deal-Grove model

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