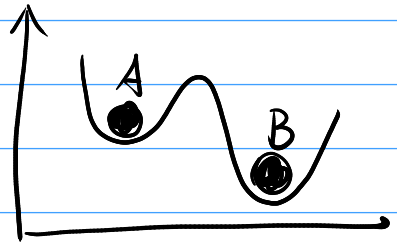
MATE 664 L01
Jan -05 2026

Slide 20



$\Delta G^{\circ} = G_B - G_A$

means reaction free energy

At reaction equibrium

$\Delta G = 0$ (change of A, B ratio)

$\simeq \Delta G^{\circ} + RT \ln \frac{x_B}{x_A}$

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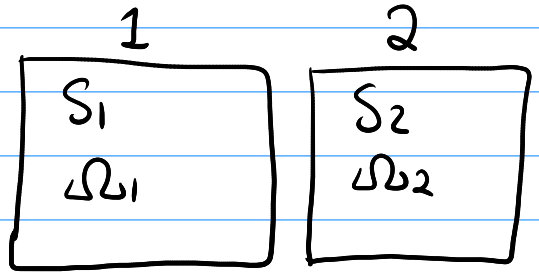
Logarithm of microstate counting func



$S_T = S_1 + S_2 \Leftarrow$ S (entropy) is extensive

$\Omega_T = \Omega_1 \cdot \Omega_2$