Advanced Thermodynamics

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Thermodynamics of heterogeneous systems

Questions:

- Derive the Maxwell's relation that connects free enegy with the state variable,
 P, V, T and S.
- 2. Derive Clausius Clapeyron equation.
- 3. Derive an expression that shows the influence of temperature on partial pressure of a gas.
- 4. How is free energy change during an oxidation reaction related to the partial pressure of oxygen?