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Our system may consist of several f© Roger Powell 6 Equilibrium Thermodynamics in Petrology depending on temperature (T), pressure (P), composition and structure of the phase, as well as the amount of phase. It is often convenient to consider the properties (for example Gibbs energy) of a fixed amount of phase.

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Thermodynamics can tell us what mineral phases are in equilibrium at a specific temperature and pressure, but does not tell us anything about the rates at which chemical equilibrium is achieved. During prograde metamorphism, temperatures are generally increasing, and rates of chemical reactions tend to increase with increasing temperature.

Thermodynamics and Metamorphism Equilibrium and Thermodynamics
Equilibrium Thermodynamics in Petrology Harper and Row, 284 pp. Powell, R, Guiraud, M, & White, RW, 2005. Truth and beauty in metamorphic mineral equilibria: conjugate variables and phase diagrams.

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Thermodynamics - Teaching Phase Equilibria
Hence, thermodynamics is the study of the conversion of heat into other forms of energy. Four laws govern thermodynamics. The Zeroth Law of Thermodynamics says that if a equals b and c equals b, then a equals c, all in terms of temperature equilibrium. An example of this is pouring two glasses of ice water on a hot summer day.

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GEOLOGY - PETROLOGY - Course
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Thermodynamic equilibrium - Wikipedia
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