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pp. Powell, R, Guiraud, M, & White, RW, 2005. Truth and beauty in metamorphic mineral equilibria: conjugate variables and phase diagrams.

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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 b equals c, 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.

How Can Geologists Study Thermodynamics?

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Mineral Thermodynamics - This is a prelude to mineral associations. In your studies of systematic mineralogy you have been noting the occurrence of minerals. Information supplied in this section of your mineral log book should include the locations and associated mineral assemblage (i.e., other minerals commonly found together).

Mineral Thermodynamics

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

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Thermodynamics

Thermodynamics: 5: 1-Energy Functions-E-S-V and G-T-P-X :
Phase Diagrams : 6: P-T-X Phase Diagrams Gibbs Phase Rule:
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Why Thermodynamics? Chemical Reactions and Equations
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Actually Drives Reactions? Equilibrium First Law of
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