Related to chapter IV

1. What is a model?
2. Which is the difference among variables and parameters in a model?

Variable:change

Parameters :not

1. The basic equations of thermodynamics: why are they so important?

U(internal energy)=Q-W

H(enthalpy)=U+pv

DeltaS(etropiy)=DeltaQ(reversible)\T

G(gibbs)=H-TS

1. Which is the most important thermodynamic equation in biological systems?

DelatG=DeltaG+RTln(Keq)

1. What is kinetics adding to modelling of a phenomenon?
2. Which are the most important enzyme kinetic models?
3. Can you write the equation of the chemical potential as a function of the concentration?

Y(chemical potential)=Y0+RTlnC(cncentration)

1. And that of the chemical potential difference?

DY=+RTln(C1\C2)

1. What is a kinetic constant?
2. Which is the relation between the rate constant and the equilibrium constant