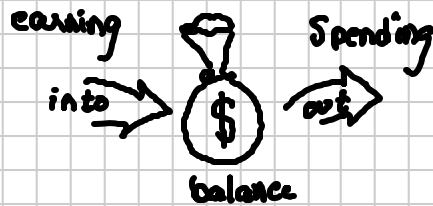


Lecture 7.1 Chemical Equilibrium

Note Title

9/16/2011

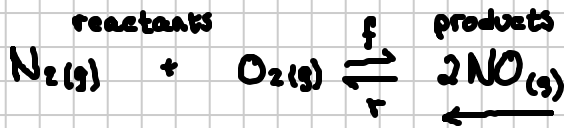
Example:



rate earning > rate spending
 saving money.
 balance grows
 non-equilibrium

rate earning < rate spending.
 balance decrease
 non-equilibrium

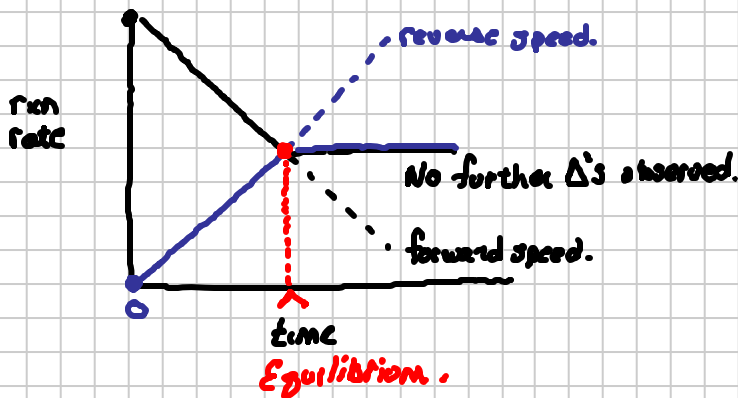
Chemical Example:



initially 1.0M 2.0M 0.0M

rate earning = rate spending
 balance constant
 No change
 dynamic equilibrium.

- 1) Initially, can forward reaction occur? Yes, reactants → products
- 2) Initially, can reverse reaction occur? No, no products → reactants
- 3) Will fwd rxn speed up or slow time? forward rxn slows down.
- 4) Will reverse rxn speed or slow time? reverse rxn speeds up.



equilibrium rate f = rate r