

New concept: Entropy (S)

- A measure of “disorder”
- A property of a system (just like p, V, T, U)
 - related to number of number of different “states” of system
- Examples of increasing entropy:
 - ice cube melts
 - gases expand into vacuum
- Change in entropy:
 - $\Delta S = Q/T$
 - » >0 if heat flows into system ($Q>0$)
 - » <0 if heat flows out of system ($Q<0$)