CH 440 Physical Chemistry

Spencer Krum

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1 Lecture 6

- Internal energy of the system
- Properties can be path-independent
- Final initial
- Relating VdW to molecular parmamaters
- Surroundigs, system
- walls
- open systems, isothermal systems, adiabatic systems,
- reversible process
 - Reversible carried out in such a manner that it's state variables can be reversed at every stage
 - isothermal contraction or expansion of a gas
 - adiabatic expansion or contraction
 - heating at a fixed pressure(isobaric)
 - heating at a fixed volume(iochoric)
- adiabatic process
 - no heat transfer between system and surrounding
 - fundamental to 2nd law of thermo