Law of Thermodynamics: 7 Zeroth law: If two systems A and B are thermally equilibrium with B 2) First low: (Conservation of energy) Energy can neither be created nor destroyed but can be converted from In thermodynamics, heat (q) given to a system is partly converted into internal energy (SU) and work done on the environment (W) ig=W+DU avenu Coust 2) Decend law: Heat always flow from high to low temperature.

Change in

The thermodynamics, the entropy of an isolated system always increases Entropy(8) Q Then Heat is Added of Heat is Removed System absorbs heat (Q > 0), entropy of that bystem increases If a hot object transfer heat to cold object, the entropy of hot object decreases and entropy of old object increases For hot object:  $S_1 = -Q_h$  Net change in entropy:
The  $\Delta S = -Q_h + Q_c$ For addolget : Se = Qe ) Oresell dauge inentropy in W

