Chapter-12 Thermodynamic

Thermodynamics is the relation b/w Heat energy and mechanical work.

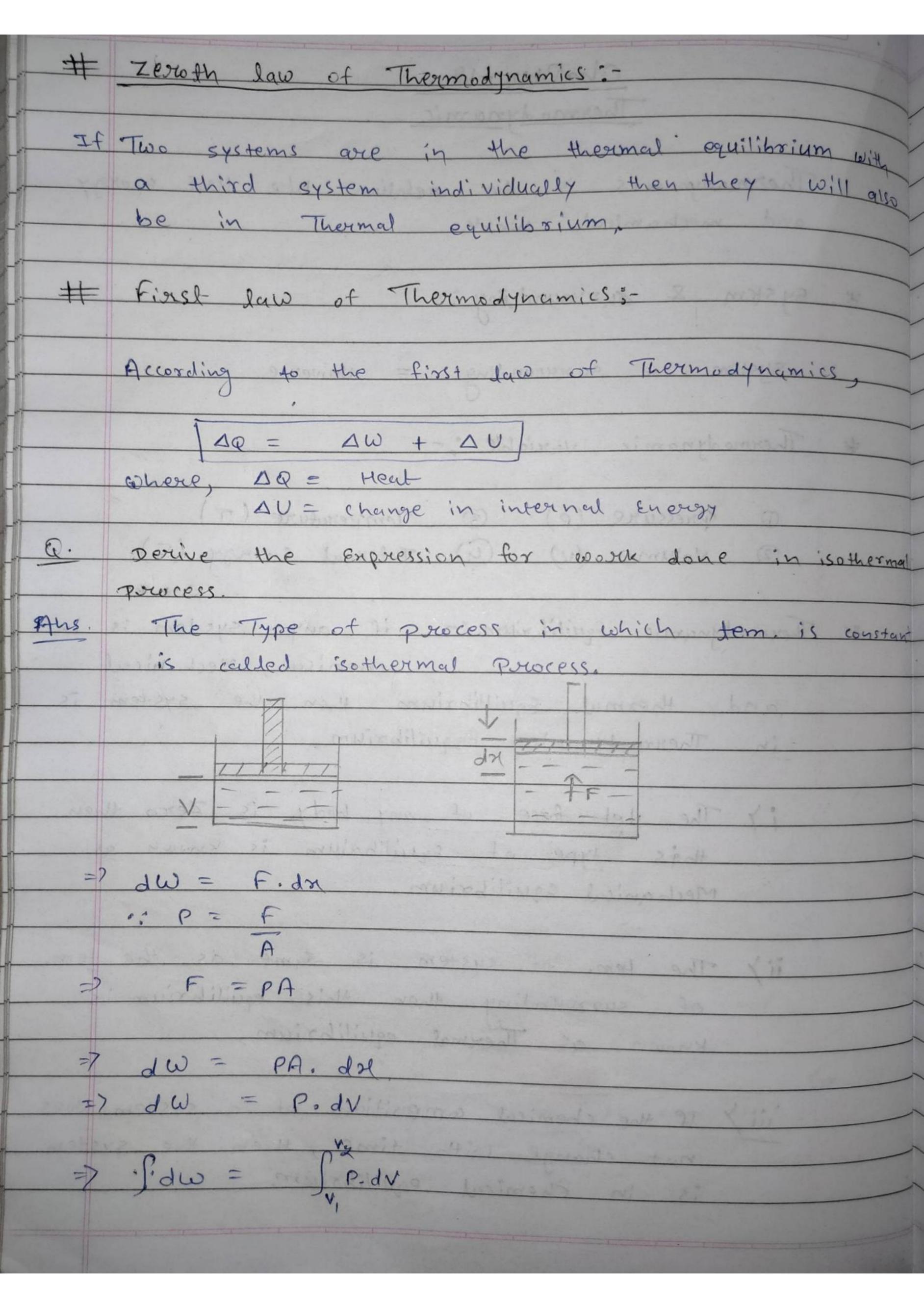
* system & survounding: -

system + surrounding = universe.

* Thermodynamic variable;

- 1 Priessure (P) (3) Temperature (T)
- 1 Volume (V) (4) Internal Energy (E)
- Thermodynamic Equilibrium:— if any system is in chemical, Mechanical and thermal Equillibrium then the system is in Thermodynamic Equilibrium
 - The Net force of any body is Zero then
 thes type of Equilibrium is known as
 Mechanical Equilibrium.
 - of surrounding then this equilibrium is

 Known as Thermal equilibrium.
 - iii) If the chemical composition of a system does not change with time, then the system is in chemical equilibrium.



nRT. dv RT. dv Since then Derive the expression for work done in a Adiabetic Process 2010 dw = F. dn dw = pA.dx => fdw = p.dv. SP.dV. adiabetic Process

