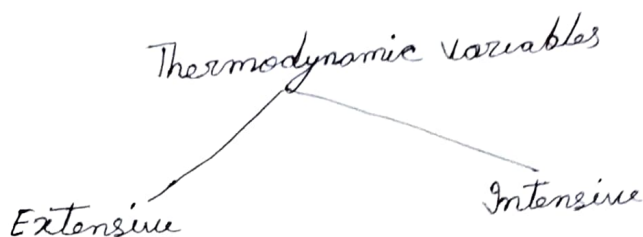


EXTENSIVE AND INTENSIVE THERMODYNAMIC VARIABLES

THERMODYNAMIC VARIABLES \rightarrow The parameters or physical properties which can describe the state of a system are called thermodynamic variables.

EX - For a gas system the temperature, Pressure and volume characterise the state of the gas considered.



EXTENSIVE \rightarrow If the value of a variable of whole of the system is equal to the sum of the value of the variable of each of the sub system is called extensive variables.

These are proportional to the mass and no. of particles

EX - Entropy, volume, internal energy etc.

INTENSIVE VARIABLES \rightarrow If the value of a variable remain unchanged on partition of the system, it is called intensive variable.

These variables are independent of mass or no. of particles.

EX - Tem., Pressure, surface tension etc.