Quiz 1

Please submit the Quiz 1 before 6:15 PM (19-January 2020)

* Required

A solid ball will not retains its original state subject to very small disturbances is called * 1 point

- ○ Stable equilibrium
- ○ All of these
- ○ Neutral equilibrium
- ◉ Unstable equilibrium

Density is a * 1 point

- ○ Path function
- ◉ Point function
- ○ Neither path nor point function
- ○ Cyclic function

A 9-m3 rigid tank contains nitrogen gas at 600 kPa and 300 K. Now heat is transferred to the nitrogen in the tank and the pressure of nitrogen rises to 900 kPa. The work done during this process is * 1 point

- [ ] 1500 kJ
- [ ] 900 kJ
- [x] 0 kJ
- [ ] 500 kJ

A System is said to be in state of Mechanical and Chemical Equilibrium, then It is said to be thermodynamic Equilibrium * 1 point

- [ ] Yes
- [x] No

Whenever a system undergoes a process, the energy in transit is defined as * 1 point

- [ ] None of these
- [ ] Process
- [x] Heat
- [ ] Work

An extension of rubber is * 1 point

- ○ Reversible adiabatic process
- ◉ Reversible process
- ○ Irreversible process
- ○ Adiabatic process

Molar entropy is * 1 point

- ◉ An extensive property
- ○ An intensive property
- ○ A path property
- ○ A reference property

A solid ball will retains its original state subject to very small disturbances is called * 1 point

- ○ Stable equilibrium
- ◉ Meta stable equilibrium
- ○ Unstable Equilibrium
- ○ Neutral equilibrium

In Isobaric process * 1 point

- [ ] Chemical potential remain constant
- [ ] Temperature remain constant
- [x] Pressure remain constant
- [ ] Volume remain constant

Entropy is * 1 point

- [ ] A path property
- [ ] A reference property
- [ ] An intensive property
- [x] An extensive property

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