अटल BATCH

ENGINEERS

- SSC JE
- JSSC JE
- NHPC JE
- THDC JE
- ISRO

MECHANICAL ENGINEERING

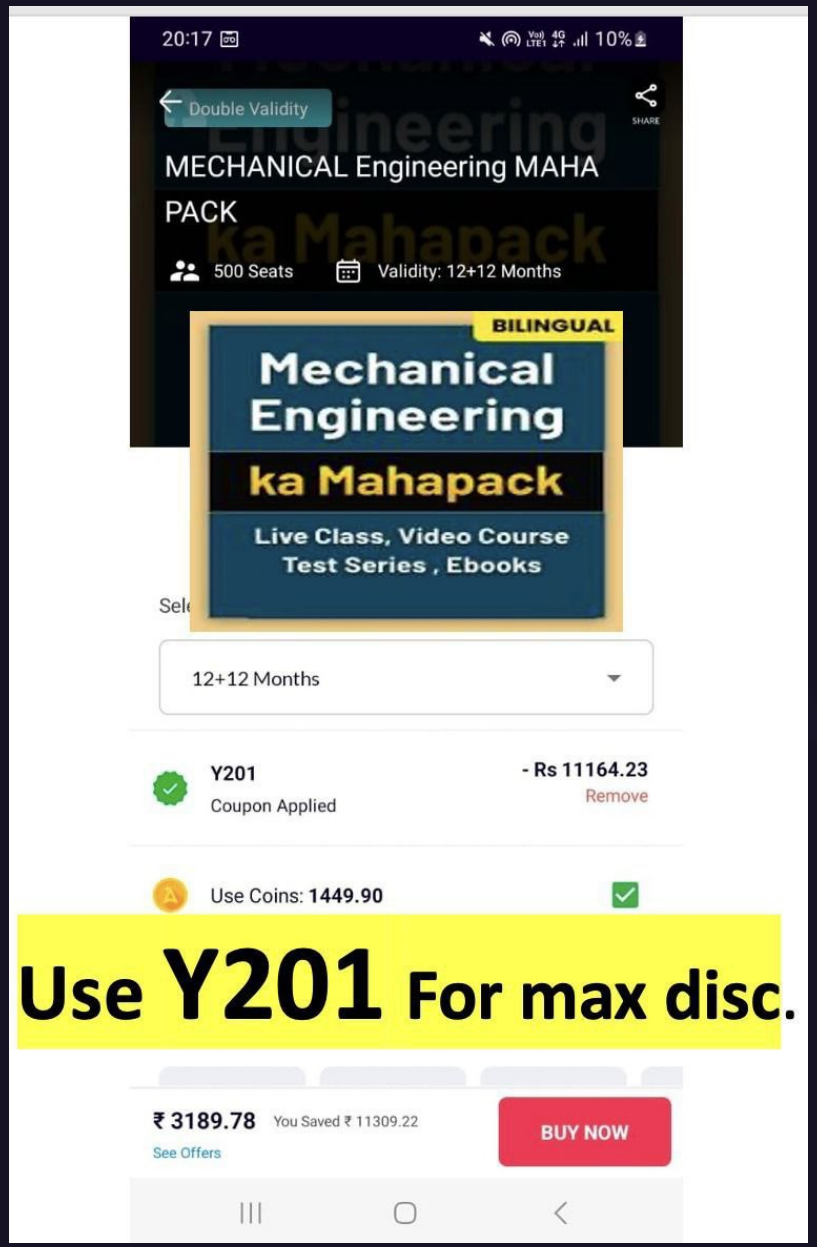
5 IN 1

THERMODYNAMICS

LECTURE -04

LIVE @2:00 PM

Join Atal 5 in1 batch| Use Y201 code max. disc.



Use Y201 For max disc.

About Rk Sir

1. 10 Year Teaching Experience
2. GATE Ranker
3. B.tech & MTech
4. More 1 Lakh student Taught
5. Highest selection ratio
6. Known for concepts

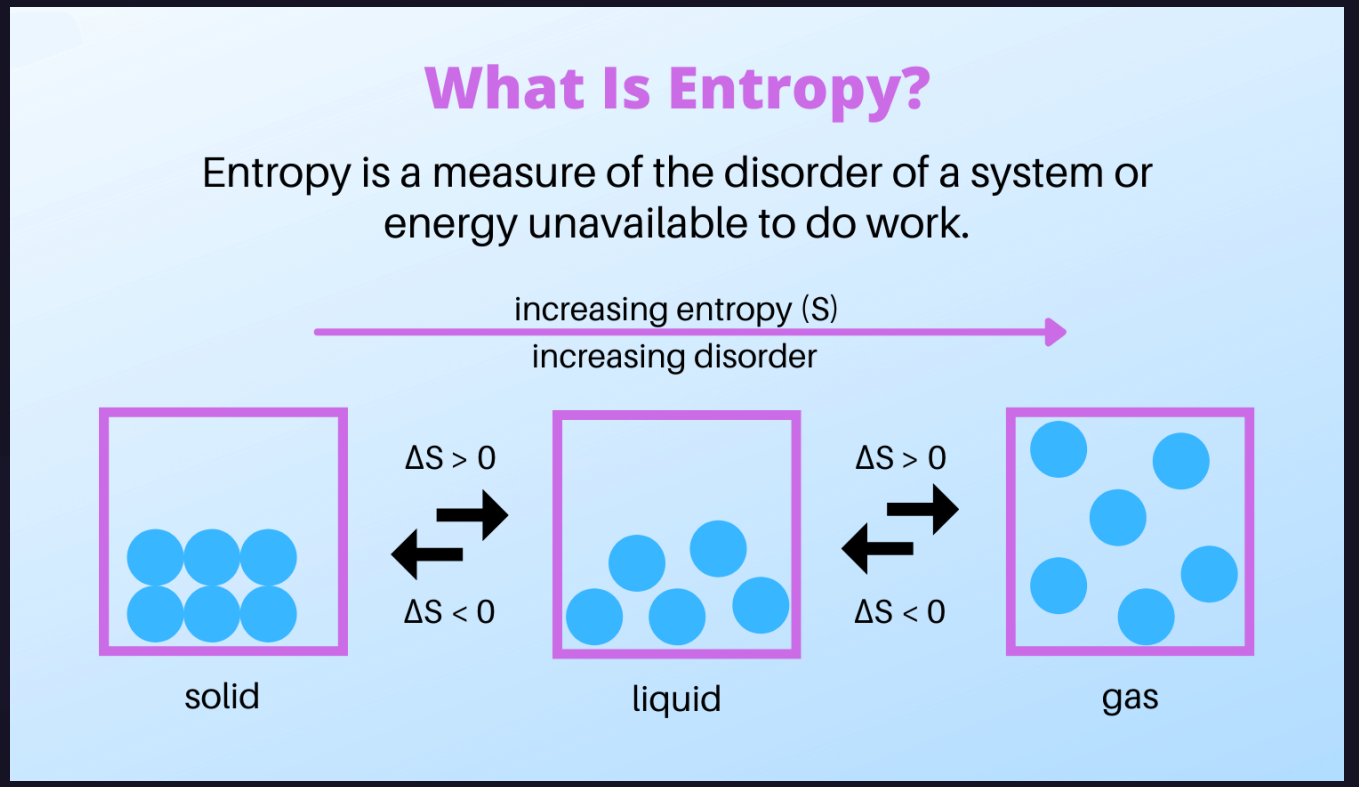
Q Entropy of system depend upon

(a) Heat

(b) work

(c) temp

(d) pressure



Q Entropy of reversible process for system will be

(a) Increase
(b) decrease
(c) constant
(d) All of the above

Q Unit of entropy

(a) Joule/k

(b) Joule/kg

(c) Joule/ meter

(d) None

Q Area under the TS Diagram for cycle indicate

(a) Work

(b) heat

(c) Both a & b

(d) None

Q – Entropy of adiabatic process will be

(a) Increase

(b) constant

(c) Can never decrease

(d) None

Q Entropy of heat engine during heat rejection when it is operating under temp limit of 300k and 1000k . Rate of heat supply is 100Kj/s

(a) 0.233kW/K
(b) 0.70kw/k
(c) 0.30Kw/k
(d) None

Q Entropy of universe in reversible process will be

(a) Increase

(b) constant

(c) decrease

(d) None

Q Irresistibility of system will be when difference of reversible and irreversible work is 50kj and surrounding temp is 300k

(a) 1500KJK
(b) 2000KJK
(c) 1000KJK
(d) None

Q Max amount of work that can be obtained by reversible heat engine when heat rejection take place to surrounding temp

(a) Available energy
(b) Unavailable energy
(c) Irreversibility
(d) None

Q Which of the following is the correct criteria for a spontaneous process?

(a) ΔSystem – ΔSurroundings > 0
(b) ΔSurroundings > 0 only
(c) ΔSystem + ΔSurroundings > 0
(d) ΔS_{system} > 0 only

Q Which of the following is the correct criteria for a spontaneous process?

(a) ΔSystem – ΔSurroundings > 0
(b) ΔSurroundings > 0 only
(c) ΔSystem + ΔSurroundings > 0
(d) ΔSystem > 0 only

Q Entropy generation is

(a) Always positive

(b) Always negative

(c) associated with irreversible process

(d) Both a & c