

Thermodynamics

U R E U P S P O N T A N E O U S - P R O C E S S B P P I N Q
Z D N X H U B N T L P B I G F K Z V J Q - Z P C R A B S - X
V - T X Z M R O S Y S T E M - B O U N D A R Y V A T M S E B
I Q H C H E M I C A L - P O T E N T I A L A I Y L H H E U G
S K A E P A R T I A L - P R E S S U R E E I N L Y - N C Y I
O L L O T L C C P L Y T B M - G H D T N W S T E P F A O A B
L Z P - H Q N N B D S W S D V S H P Q U Z T E N A U S R F B
A X Y A E A P U S - P J D V G L G Q Z P J A R T E N B P C S
T Z - F R I D F D Q P Z T G B C N Z V U V N N R V C Z - L -
E C C W M F B - H E A T - T R A N S F E R D A O Y T C E O F
D A H O A M Y E R E A C T I O N - E N T H A L P Y I W L S R
- W A M L H A T H E A T - C A P A C I T Y R - Y S O B B E E
S S N Z - F U A - V Z R F B G A K L X X Q D E - T N E I D E
Y T G J E H W T J U T S D Z T K M K H B N - N C A M N S - -
S A E O Q I J S - X H I K M Y H W R I A O S E H N C O R S E
T E E Q U I L I B R I U M - S T A T E M I T R A D S D E Y N
E H V O I G L S J D V N - S T L L G M O T A G N A I - V S E
M - J P L E Q Z A W U Z Z B W O - H O L C T Y G R A K E T R
Z C I E I N L F Q V Y D Y O N V D D U A A E C E D F R R E G
K I R N B T Z D D N P X P Z D G N A - R E M E P - X O R M Y
U F A - R S C F U B B O P Z L S O U S - R H N W E A W I Y F
S I H S I L N V E - H T S B S Y C M C E - N F I N L A Y A S
F C Q Y U J A I A M W W J W K - E V - N F I R S T - L A W Q
- E V S M Q Y N P L E F P A A M S X O T O F J F H R E C I A
F P A T B F Q W W B G M B P X I L Q V H - N T P A H E F T E
T S G E W E N E R G Y - C O N S E R V A T I O N L R I - - B
E T V M V K F K Q W V X X P L Y T Z W L A M I X P A C N R V
N O N - S P O N T A N E O U S L Y O I P E E O K Y - M R I J
B I H D X M U V U G A T W Z - S G P M Y H T J S R U W - O W
Q L - Z B E Q U I L I B R I U M - C O N S T A N T R F I S J

1. State-function
2. Heat-transfer
3. Work-done
4. First-law
5. Second-law
6. Open-system
7. Closed-system
8. Isolated-system
9. Standard-enthalpy
10. Gibbs-free-energy
11. Spontaneous-process
12. Non-spontaneous
13. Equilibrium-state
14. Reaction-enthalpy
15. System-boundary
16. Path-function
17. Internal-energy
18. Entropy-change
19. Reversible-process
20. Irreversible-process
21. Heat-capacity
22. Molar-enthalpy
23. Specific-heat
24. Enthalpy-change

25. Energy-conservation **26. Chemical-potential** **27. Standard-state** **28. Partial-pressure**
29. Thermal-equilibrium **30. Heat-of-reaction** **31. Equilibrium-constant**