

THERMODYNAMICS & MECHANICS OF THE SOLID STATE (11110) — PART B (2015-16)

1. State the fundamental equation and its derivatives. Write down the Maxwell relations. (10 marks)

2. A substance with $\beta = 10^{-4} \text{ K}^{-1}$ and $\alpha = 10^{-5} \text{ K}^{-1}$ is cooled at the temperature of 300 K by 1 K .
 (a) Calculate the change in Helmholtz free energy. (10 marks)
 (b) Calculate the change in Gibbs free energy. (10 marks)

3. The density of water is 1 g cm^{-3} at 100°C . The volume of water is 1 cm^3 at 100°C . Calculate the change in entropy of the water. (10 marks)

4. Water vapor is a diatomic gas. Calculate the change in entropy of 1 mole of water vapor at 100°C and 1 atm . (10 marks)

5. The entropy of a diatomic gas is $10 \text{ cal K}^{-1} \text{ mole}^{-1}$ at 100°C and 1 atm . Calculate the change in entropy of the gas at 200°C and 1 atm . (10 marks)

6. State the first law of thermodynamics. Write down the change in the internal energy. (10 marks)

7. A diatomic gas is heated at constant pressure. Calculate the change in the internal energy. (10 marks)

8. The entropy of a diatomic gas is $10 \text{ cal K}^{-1} \text{ mole}^{-1}$ at 100°C and 1 atm . Calculate the change in entropy of the gas at 200°C and 1 atm . (10 marks)

9. A diatomic gas is heated at constant pressure. Calculate the change in the internal energy. (10 marks)

10. A diatomic gas is heated at constant pressure. Calculate the change in the internal energy. (10 marks)

11. Write down the equation of state of a diatomic gas. (10 marks)



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Yicheng Fang



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