

ASSIGNMENT 4
MEASUREMENTS

1. What are hot probe method.
2. Explain experimental procedure for DLTS.
3. Why two probe method for resistivity measurement failed and hence explain four probe method.
4. Discuss UV – VIS method for band gap measurement of semiconductors.
5. Define Hall effect and Hall coefficient. Derive equation to find Hall voltage. What does it signify?
6. Discuss the technique to obtain band gap by UV-Vis spectroscopy using absorption or transmission.
7. What are capacitance voltage measurements?
8. Discuss Van Der Pauw method.
9. Explain four probe method. Derive an equation to calculate resistivity of a thin sample.
10. Write short note on C-V measurement and how to determine semiconductor parameter.