Exercise 2.1-5

Do the Math for Mixed Point Defects

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Solve the system of the three equations given below and show that the result given is correct

$$c_{V}(C) \cdot c_{i}(C) = \frac{N'}{N} \cdot \exp{-\frac{H_{FP}}{kT}}$$

$$c_{V}(A) \cdot c_{V}(C) = \frac{N'}{N} \cdot \exp{-\frac{H_{S}}{kT}}$$

$$c_{V}(C) = c_{V}(A) + c_{i}(C)$$

What are the conditions for the limiting cases of pure Frenkel or Schottky defects?



Link to the Solution