## Exercise 2.1-4

## Derive the Formula for the Vacancy Equilibrium Concentration

Illustration

Start from the formulas given, use the approximations described, and show that

$$c_{V} = \frac{\text{concentration}}{\text{of vacancies}} = \frac{S_{F}}{k} \cdot \frac{H_{F}}{k}$$

Would more advanced versions of Stirlings formula get better results?

Link to the Solution