

Homework 12.

1. If a Raman Stokes line is at -360 cm^{-1} , and the ratio of the Stokes/Antistokes intensities is 12:1, what is the temperature of the sample?
2. Assume a weakly-bound exciton has an electron and hole each with $m = m_e$. The binding energy is 14 meV.

What concentration of excitons will give a Mott transition to a conducting electron-hole gas?

Chapter 14 Problem 7