

Temperaturabhängigkeit der Besetzungszahlen N_1, N_2

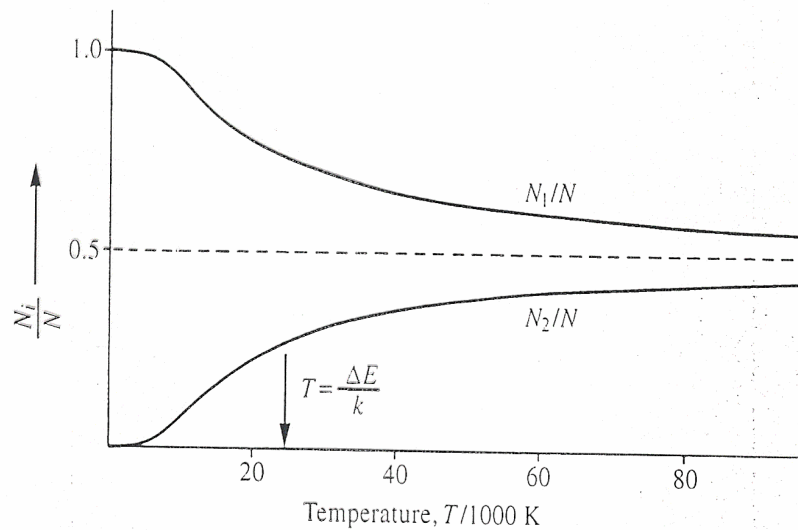


Figure 12.3 N_1 and N_2 as a function of T according to equation (12.4) with $\Delta E = 3.37 \times 10^{-19} \text{ J}$ (excitation energy of a Na atom: yellow Na line).

Anschauliche Begründung für Gleich- verteilung bei hohen Temperaturen

Kinetische Energie $\leftrightarrow$ Schütteln
der Box

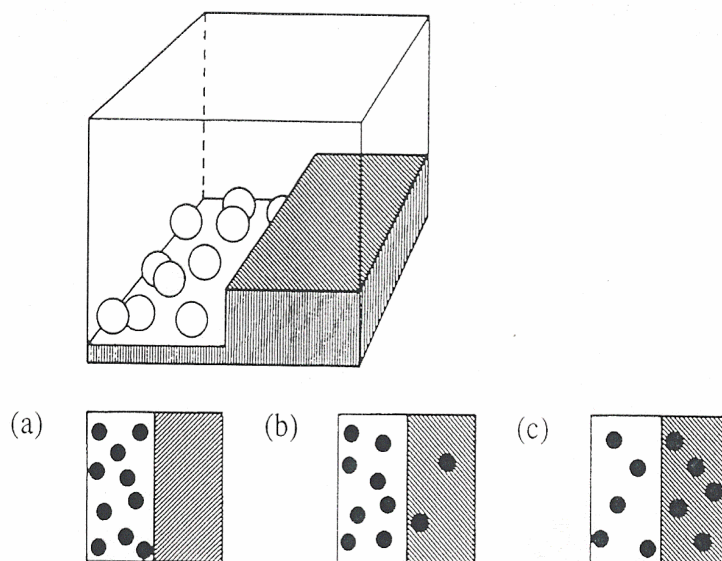


Figure 12.4 Model experiment for the demonstration of the distribution of molecules on two energy levels. (a) Box at rest; (b) box weakly shaken; (c) box vigorously shaken.