

11.3. For the excitation transfer process indicated in Fig. 11.1*b*, write rate equations like (11.3.3) for the populations N_A , N_B , and N_{B^*} .

We can write the following rate equation for the number density N_{A^*} of excited atoms A^* (or molecules) of species A due to the process (11.3.1):

$$\frac{dN_{A^*}}{dt} = -R(N_{A^*}N_B - e^{-\Delta E/k_B T} N_A N_{B^*}). \quad (11.3.3)$$

It is conventional to designate an excited atom or molecule by an asterisk. The exothermic process indicated in Fig. 11.1*a* is written out as a reaction as follows:



Likewise the endothermic process of Fig. 11.1*b* is written symbolically as



Figure 11.1 (a) Exothermic and (b) endothermic excitation from atom A to atom B.

Laser Physics Milonni Solution

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