

**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

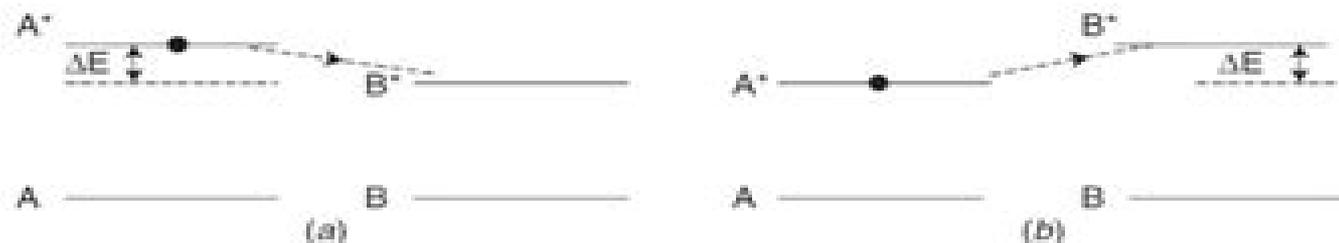


Figure 11.1 (a) Exothermic and (b) endothermic excitation from atom  $A$  to atom  $B$ .

# Milonni Laser Physics Solution Problems Manual

**K Morrison**



**Milonni Laser Physics Solution Problems Manual:**

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